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ENVIRONMENTAL ASSESSMENT STATEMENT (EAS) AND SUPPLEMENTAL REPORT

EAST 241ST STREET REZONING

WAKEFIELD, NEW YORK, NY

CEQR No. 18DCP094X

MAY 18, 2018

LANGAN

NEW YORK CITY ENVIRONMENTAL QUALITY REVIEW
ENVIRONMENTAL ASSESSMENT STATEMENT
AND SUPPLEMENTAL REPORT

EAST 241ST STREET REZONING

BLOCK 5087
BOROUGH OF BRONX

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CEQR Number: 18DCP094X
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City Environmental Quality Review
ENVIRONMENTAL ASSESSMENT STATEMENT (EAS) FULL FORM

Please fill out and submit to the appropriate agency (see instructions)

Part I: GENERAL INFORMATION

PROJECT NAME East 241st Street Rezoning

1. *Reference Numbers*

CEQR REFERENCE NUMBER (to be assigned by lead agency)	BSA REFERENCE NUMBER (if applicable)
18DCP094X	N/A
ULURP REFERENCE NUMBER (if applicable) 180083 ZMX 180084 ZRX	OTHER REFERENCE NUMBER(S) (if applicable) (*e.g.*, legislative intro, CAPA) N/A

2a. *Lead Agency Information*			**2b. *Applicant Information***		
NAME OF LEAD AGENCY Department of City Planning			NAME OF APPLICANT Enclave Equities, LLC		
NAME OF LEAD AGENCY CONTACT PERSON Robert Dobruskin			NAME OF APPLICANT'S REPRESENTATIVE OR CONTACT PERSON Jonathan Seplowitz		
ADDRESS 120 Broadway – 31st Floor			ADDRESS 2975 Westchester Avenue		
CITY New York	STATE NY	ZIP 10271	CITY Purchase	STATE NY	ZIP 10577
TELEPHONE (212) 720-3423	EMAIL rdobrus@planning.nyc.gov		TELEPHONE (914) 285-1430	EMAIL jseplowitz@enclaveequities.com	

3. *Action Classification and Type*

SEQRA Classification

☒ UNLISTED ☐ TYPE I: Specify Category (see 6 NYCRR 617.4 and NYC Executive Order 91 of 1977, as amended): 617.4(b)(6)(v)

Action Type (refer to Chapter 2, "Establishing the Analysis Framework" for guidance)

☐ LOCALIZED ACTION, SITE SPECIFIC ☒ LOCALIZED ACTION, SMALL AREA ☐ GENERIC ACTION

4. *Project Description*

Enclave on 241st LLC (the "Applicant") is requesting several discretionary actions (collectively, the "Proposed Action") that would affect Block 5087 in the Borough of the Bronx, Community District 12 ("Directly Affected Area"). The Proposed Action includes (i) a zoning map amendment to rezone Block 5087 from an M1-1 to an R7D zoning district with a C2-4 commercial overlay; (ii) a zoning text amendment to Appendix I: Transit Zone (Map 1) of the Zoning Resolution of the City of New York (ZR) to include Block 5087 within the Transit Zone; and (iii) a zoning text amendment to Appendix F of the ZR to designate a Mandatory Inclusionary Housing (MIH) area on Block 5087. Further, the Applicant intends to seek one or more financing mechanisms to help facilitate the Proposed Development, including, but not necessarily limited to, tax exempt bonds through the New York City Department of Housing Preservation and Development (HPD) and the New York City Housing Development Corporation (HDC) Mix and Match Program. The Proposed Action would facilitate construction of a 9-story (approximately 90 feet), approximately 207,925 gross-square-foot (gsf) mixed-use building on Block 5087, Lots 1, 9, and 12 ("Proposed Development Site"). The proposed mixed-use building would comprise (i) approximately 159,875 gsf of residential space (186 dwelling units, 100 percent of which would be designated as permanently affordable); (ii) approximately 24,972 gsf of ground floor commercial space; and (iii) approximately 21,984 gsf of below-grade parking (47 spaces) ("Proposed Development"). The Proposed Action would also facilitate new residential and ground floor commercial use on the remaining lots within the Directly Affected Area.

Project Location

BOROUGH Bronx	COMMUNITY DISTRICT(S) 12	STREET ADDRESS N/A
TAX BLOCK(S) AND LOT(S) Block 5087 Lots 1, 9, 12, 13, 14, 16, 18, 20, 22, 24, 28, 33, 40, 48, 53, 54, 55, 58, 65 and 128		ZIP CODE 10470
DESCRIPTION OF PROPERTY BY BOUNDING OR CROSS STREETS: East 241st Street to the north, Furman Avenue to the east, East 240th Street to the south, and White Plains Road to the west.		
EXISTING ZONING DISTRICT, INCLUDING SPECIAL ZONING DISTRICT DESIGNATION, IF ANY: M1-1		ZONING SECTIONAL MAP NUMBER: 2a

5. *Required Actions or Approvals* (check all that apply)

City Planning Commission: ☒ YES ☐ NO ☒ UNIFORM LAND USE REVIEW PROCEDURE (ULURP)

☐ CITY MAP AMENDMENT	☐ ZONING CERTIFICATION	☐ CONCESSION
☒ ZONING MAP AMENDMENT	☐ ZONING AUTHORIZATION	☐ UDAAP
☐ SITE SELECTION—PUBLIC FACILITY	☐ DISPOSITION—REAL PROPERTY	☐ FRANCHISE
☐ HOUSING PLAN & PROJECT	☐ OTHER, explain:	

☐ SPECIAL PERMIT (if appropriate, specify type: ☐ modification; ☐ renewal; ☐ other); EXPIRATION DATE:

SPECIFY AFFECTED SECTIONS OF THE ZONING RESOLUTION

☒ ZONING TEXT AMENDMENT	☐ ACQUISITION—REAL PROPERTY	☐ REVOCABLE CONSENT

***Board of Standards and Appeals*:** ☐ YES ☒ NO
☐ VARIANCE (use)
☐ VARIANCE (bulk)
☐ SPECIAL PERMIT (if appropriate, specify type: ☐ modification; ☐ renewal; ☐ other); EXPIRATION DATE:
SPECIFY AFFECTED SECTIONS OF THE ZONING RESOLUTION

***Department of Environmental Protection*:** ☐ YES ☒ NO If "yes," specify:

Other City Approvals Subject to CEQR (check all that apply) n/a
☐ LEGISLATION
☒ FUNDING OF CONSTRUCTION, specify: Tax exempt bonds through the New York City Department of Housing Preservation and Development (HPD) and New York City Housing Development Corporation (HDC) Mix and Match Program.
☐ RULEMAKING
☐ POLICY OR PLAN, specify:
☐ CONSTRUCTION OF PUBLIC FACILITIES
☐ FUNDING OF PROGRAMS, specify:
☐ 384(b)(4) APPROVAL
☐ PERMITS, specify:
☐ OTHER, explain:

Other City Approvals Not Subject to CEQR (check all that apply)
☐ PERMITS FROM DOT'S OFFICE OF CONSTRUCTION MITIGATION AND COORDINATION (OCMC)
☐ LANDMARKS PRESERVATION COMMISSION APPROVAL
☐ OTHER, explain:

***State or Federal Actions/Approvals/Funding*:** ☐ YES ☒ NO If "yes," specify:

6. *Site Description:* *The directly affected area consists of the project site and the area subject to any change in regulatory controls. Except where otherwise indicated, provide the following information with regard to the directly affected area.*

***Graphics*:** *The following graphics must be attached and each box must be checked off before the EAS is complete. Each map must clearly depict the boundaries of the directly affected area or areas and indicate a 400-foot radius drawn from the outer boundaries of the project site. Maps may not exceed 11 x 17 inches in size and, for paper filings, must be folded to 8.5 x 11 inches.*
☒ SITE LOCATION MAP ☒ ZONING MAP ☒ SANBORN OR OTHER LAND USE MAP
☒ TAX MAP ☐ FOR LARGE AREAS OR MULTIPLE SITES, A GIS SHAPE FILE THAT DEFINES THE PROJECT SITE(S)
☒ PHOTOGRAPHS OF THE PROJECT SITE TAKEN WITHIN 6 MONTHS OF EAS SUBMISSION AND KEYED TO THE SITE LOCATION MAP

Physical Setting (both developed and undeveloped areas)
Total directly affected area (sq. ft.): 103,532
Waterbody area (sq. ft.) and type: N/A
Roads, buildings, and other paved surfaces (sq. ft.): 103,532
Other, describe (sq. ft.): N/A

7. *Physical Dimensions and Scale of Project* (if the project affects multiple sites, provide the total development facilitated by the action)
SIZE OF PROJECT TO BE DEVELOPED (gross square feet): 526,626 gsf (includes Projected Development Sites 1 through 5)
NUMBER OF BUILDINGS: 5
GROSS FLOOR AREA OF EACH BUILDING (sq. ft.): 207,925 (Site 1/Proposed Development Site); 40,133 (Site 2); 123,534 (Site 3); 103,955 (Site 4); and 51,079 (Site 5)
HEIGHT OF EACH BUILDING (ft.): 115 feet
NUMBER OF STORIES OF EACH BUILDING: 11 stories (maximum)
Does the proposed project involve changes in zoning on one or more sites? ☒ YES ☐ NO
If "yes," specify: The total square feet owned or controlled by the applicant: 28,999
The total square feet not owned or controlled by the applicant: 48,772
Does the proposed project involve in-ground excavation or subsurface disturbance, including, but not limited to foundation work, pilings, utility lines, or grading? ☒ YES ☐ NO
If "yes," indicate the estimated area and volume dimensions of subsurface disturbance (if known):
AREA OF TEMPORARY DISTURBANCE: (width x length) 77,833 sf
VOLUME OF DISTURBANCE: (width x length x depth) 646,660 cubic feet
AREA OF PERMANENT DISTURBANCE: (width x length) 77,833 sf

8. *Analysis Year* CEQR Technical Manual Chapter 2
ANTICIPATED BUILD YEAR (date the project would be completed and operational): 2026
ANTICIPATED PERIOD OF CONSTRUCTION IN MONTHS: N/A
WOULD THE PROJECT BE IMPLEMENTED IN A SINGLE PHASE? ☒ YES ☒ NO
IF MULTIPLE PHASES, HOW MANY? See Attachment P: Construction
BRIEFLY DESCRIBE PHASES AND CONSTRUCTION SCHEDULE: See Attachment P: Construction

9. *Predominant Land Use in the Vicinity of the Project* (check all that apply)
☒ RESIDENTIAL ☒ MANUFACTURING ☒ COMMERCIAL ☐ PARK/FOREST/OPEN SPACE ☒ OTHER, specify: Transportation/Utility

ATTACHMENT A. PROJECT DESCRIPTION

INTRODUCTION

Enclave on 241st LLC (the "Applicant") is requesting approval of several discretionary actions (collectively, the "Proposed Action") affecting Block 5087 (the "Directly Affected Area") in the Wakefield neighborhood of the Bronx, Community District 12. The Proposed Action includes (i) a zoning map amendment to rezone the Directly Affected Area from an M1-1 zoning district to an R7D zoning district with a C2-4 commercial overlay; (ii) a zoning text amendment to Appendix I: Transit Zone (Map 1) of the Zoning Resolution of the City of New York (ZR) to include Block 5087 within the Transit Zone; (iii) a zoning text amendment to Appendix F of the ZR to designate a Mandatory Inclusionary Housing (MIH) area on Block 5087; and (iv) one or more financing mechanisms to help facilitate the Proposed Development, including, but not necessarily limited to, tax exempt bonds through the New York City Department of Housing Preservation and Development (HPD) and the New York City Housing Development Corporation (HDC) Mix and Match Program.

The Proposed Action would facilitate construction of a 9-story, approximately 207,925-gross-square-foot (gsf) mixed-use building on Block 5087, Lots 1, 9 and 12 (the "Proposed Development Site"). The proposed mixed-use building would include (i) approximately 159,875 gsf of residential space (186 dwelling units, in which approximately 50 percent of dwelling units (93 dwelling units) would be allocated for families with incomes at or below 60 percent AMI, and approximately 50 percent of dwelling units (93 dwelling units) would be allocated for families with incomes between 80 percent and 100 percent AMI); (ii) approximately 24,972 gsf of ground floor commercial space; and (iii) approximately 21,984 gsf of below-grade parking (47 spaces) (the "Proposed Development"). The Proposed Action would also allow for new mixed-use development opportunities on the remaining lots within the Directly Affected Area. To produce a reasonable, conservative estimate of future growth, sites within the Directly Affected Area have been divided into two categories: Projected Development Sites and Potential Development Sites. In addition, for the purpose of constructing a conservative analysis, it is assumed that development projected within the Directly Affected Area under the With-Action Condition would maximize building height (115 feet) and Floor Area Ratio (5.6) permitted under the proposed R7D/C2-4 zoning district and Zoning for Quality and Affordability (ZQA) zoning provisions (Attachment B, "CEQR Analysis Framework").

DIRECTLY AFFECTED AREA

The Directly Affected Area comprises an entire city block (Block 5087) in the Wakefield neighborhood of the Bronx, Community District 12. The approximately 103,532-square-foot (sf) Directly Affected Area includes 20 tax lots (Block 5087, Lots 1, 9, 12, 13, 14, 16, 18, 20, 22, 24, 28, 33, 40, 48, 53, 54, 55, 58, 65 and 128) and is bounded by East 241st Street to the north; Furman Avenue to the east; East 240th Street to the south; and White Plains Road and the elevated to the west (Figures 1, 2, and 3). The existing land use, lot size, and total gross floor area for the 20 tax lots that compose the Directly Affected Area are provided in "Attachment B: CEQR Analysis Framework," Tables B-1 and B-2.

The Directly Affected Area is mapped with an M1-1 zoning district. The M1-1 district allows for a maximum manufacturing FAR of 1.0 (Use Groups 16 and 17); a maximum commercial FAR of 1.0 (Use Groups 5 through 14); and a maximum community facility FAR of 2.4 (Use Group 4). Residential uses are not permitted in the M1-1. Maximum building height in the M1-1 is controlled by the sky exposure plane that begins at 30 feet above the street line and rises inward over the zoning lot at a ratio of vertical distance to horizontal distance.

The elevated NYCT No. 2 subway line runs along White Plains Road directly west of the Directly Affected Area; the East 241st Street-Wakefield Avenue subway station is at the intersection of White Plains Road and East 241st Street.

Proposed Development Site

The Proposed Development Site (700-714 East 241st Street, 4637-4643 Furman Avenue, and 4644 White Plains Road) is bounded by East 241st Street to the north; Furman Avenue to the east; residential and mixed-use buildings to the south; and White Plains Road and the elevated No. 2 subway line to the west. The approximately 28,999-sf Proposed Development Site comprises three tax lots: Lot 1 (24,061 sf), Lot 9 (2,628 sf) and Lot 12 (2,310 sf) (Figure 3).[1] Lot 1 was previously occupied by a one-story commercial building at the intersection of East 241st Street and Furman Avenue; a surface parking lot along Furman Avenue; a one-story transportation/utility building along White Plains Road; and a gas station at the intersection of White Plains Road and East 241st Street; the entire lot is currently vacant. A portion of Lot 1 was also previously part of the alleyway designated as Garden Place. Lot 9 contains a two-story, approximately 2,310-sf, multifamily residential building with four dwelling units. Lot 12 contains a two-story, approximately 3,135-sf multifamily residential building with three dwelling units. These remaining buildings are all vacant and will be demolished. There are five curb cuts on the Proposed Development Site: one on White Plains Road, two on 241st Street, and two on Furman Avenue.

SURROUNDING AREA

As shown in Figure 5, land uses within a 400-foot radius of the Directly Affected Area (the "Study Area") include primarily commercial and residential uses. Commercial uses in the Study Area are found primarily along White Plains Road and East 241st Street. Residential uses (one- and two-family and multifamily) are found along Richardson Avenue and East 240th Street west of White Plains Road, and along St. Ouen Street and Cranford Avenue northeast of East 241st Street; there are also several mixed-use buildings along White Plains Road. The Study Area contains several transportation and utility uses, including the Metropolitan Transportation Authority (MTA) 239th Street Rail Yard direct east of the Directly Affected Area, as well auto shops, an air conditioning repair shop, and an electronic machine shop. Several industrial/manufacturing uses are found south of the Directly Affected Area. Community facility uses include El Shaddai World Harvest Church on White Plains Road to the west across from the Directly Affected Area; Living Hope Church and Iglesia De Dios Pentecostal Church on White Plains Road on the block southwest of the Directly Affected Area; and Wakefield Seventh Day Adventist Church and senior citizen/disabled persons housing at Cranford Avenue to the northeast of the Directly Affected Area.

[1] The Proposed Development Site formerly included six parcels: Lots 1, 3, 6, 9, 59, and 62. Lots 3, 6, 59, and 61 were merged into Lot 1 in 2013.

As shown in Figure 6, the Study Area is mapped with M1-1, R6, R6A, R5, R4A, and C2-2 (commercial overlay) zoning districts.[2] The Study Area is well served by NYCT, including the No. 2 subway line train station (Wakefield–241st Street) adjacent to the Directly Affected Area at the intersection of White Plains Road and East 241st Street; the B-L 40, B-L 41, and B-L 43 bus lines that run along White Plains Road; and the BxM 11 and BxM 39 bus lines that traverse White Plains Road and East 241st Street. The Directly Affected Area is adjacent to a Transit Zone (Figure 7).

DESCRIPTION OF PROPOSED ACTION

The Proposed Action includes:

1) A zoning map amendment to the ZR (Map 2a) to rezone the Directly Affected Area from an M1-1 zoning district to an R7D zoning district with a C2-4 overlay;

2) A zoning text amendment to Appendix I: Transit Zone (Map 1) of the ZR to include the Directly Affected Area within the adjacent Transit Zone; and

3) A zoning text amendment to Appendix F of the ZR to designate the Directly Affected Area as a MIH area.

Further, the Applicant intends to seek one or more financing mechanisms included, but not necessarily limited to tax exempt bonds through the New York City Department of Housing Preservation and Development (HPD) and the New York City Housing Development Corporation (HDC) Mix and Match Program.

The proposed R7D zoning district would permit residential uses at a maximum FAR of 5.6 and community facility uses at a maximum FAR of 4.2. The proposed C2-4 commercial overlay would permit commercial use (Use Groups 1, 2, 3, 4, 5, 6, 7, 8, 9, and 14) at a maximum FAR of 2.0 on the first two floors. The R7D zoning district allows for a maximum base height of 95 feet and a maximum building height of 115 feet for buildings that include affordable dwelling units[3]. The proposed extension of the existing Transit Zone would allow for optional off-street parking for new affordable and affordable senior housing developments. The proposed MIH designation would apply to the entirety of Block 5087.

In addition to the proposed zoning map and text amendments, the Applicant is pursuing one or more financing mechanisms to help facilitate the Proposed Development, including, but not necessarily limited to, tax exempt bonds through the New York City Department of Housing Preservation and Development (HPD) and the New York City Housing Development Corporation (HDC) Mix and Match Program.

[2] See Attachment C for a detailed description of zoning districts in the Study Area.
[3] New York City Zoning Resolution (ZR) Section 23-664 (Modified height and setback regulations for certain Inclusionary Housing buildings or affordable independent residences for seniors).

PROPOSED DEVELOPMENT

The Proposed Action would facilitate the construction of a 9-story (90 feet), approximately 207,925-gsf mixed-use building on the Proposed Development Site. The Proposed Development would include:

- approximately 159,875 gsf of residential use (4.77 FAR), including 186 dwelling units, 100 percent of which would be designated as permanently affordable;
- approximately 27,972 gsf of ground floor retail space (0.93 FAR);
- approximately 21,984 gsf of below-grade parking (47 spaces, self-service);[4]
- a rear yard setback (approximately 36 feet);
- top-floor setbacks (ranging from approximately 21 feet to 27 feet) fronting Furman Avenue, East 241st Street, and White Plains Road;
- outdoor recreation space over the first floor (private; residents only);
- a loading zone fronting Furman Avenue; and
- new curbs along Furman Avenue, East 241st Street and White Plains Road.

PURPOSE AND NEED

In 2007, the City rezoned the Wakefield and Eastchester neighborhoods (northwest of the Directly Affected Area). A total of 134 blocks were rezoned to contextual R5A, R4A, and R4-1 zoning districts. In addition, 14 blocks along White Plains Road were rezoned to an R6 zoning district to encourage modest residential and mixed-use development.[5] The Wakefield/Eastchester Rezoning was intended to address the out-of-character residential development in areas previously zoned for light industry by protecting the existing neighborhood character and allowing for comparably higher density development.

The Proposed Action would rezone a block directly adjacent to the Wakefield/Eastchester rezoning area to a contextual R7D zoning district with a C2-4 commercial overlay. This proposed rezoning is consistent with the intent of the Wakefield/Eastchester rezoning.

Existing land uses within the Directly Affected Area include industrial, residential, commercial, and transportation-related uses. Because residential uses are not permitted under the existing M1-1 zoning district regulations, the Proposed Development would not be permitted as-of-right on the Proposed Development Site. By rezoning the Directly Affected Area from the existing M1-1 zoning

[4] Access to the below-grade parking garage would be provided via Furman Avenue; the existing curb cut would be replaced. The proposed 47 parking spaces would accommodate only the commercial uses in the Proposed Development; no parking would be allocated for residential uses. The parking garage would be unattended and would not include stackers.

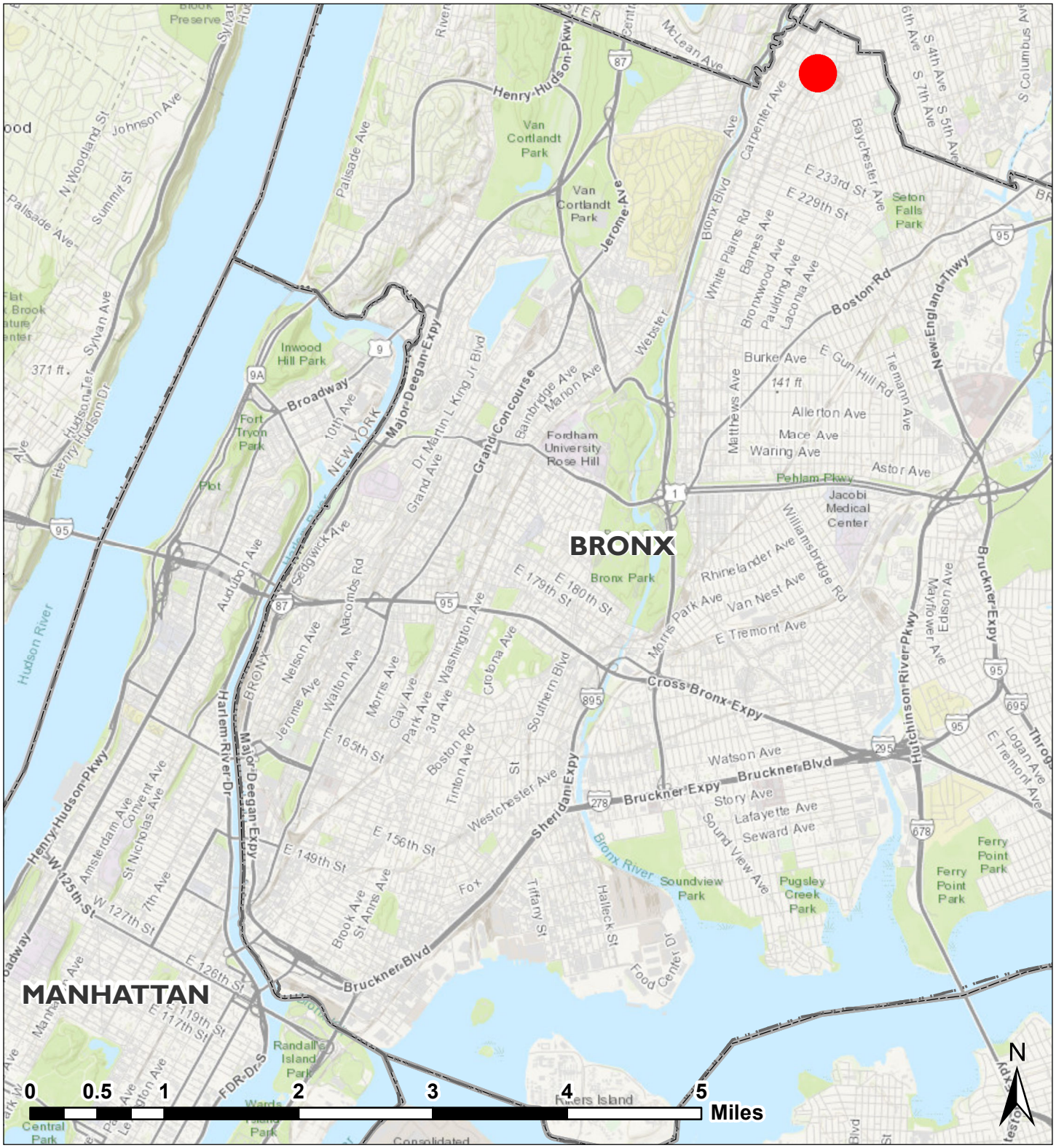
[5] Wakefield/Eastchester Rezoning (07DCP058X) http://www1.nyc.gov/assets/planning/download/pdf/plans/wakefield-eastchester/wakefield.pdf (Accessed on November 30, 2016)

district to an R7D zoning district with a C2-4 commercial overlay, the Proposed Action would facilitate the redevelopment of the Proposed Development Site, which is mostly vacant, into a mixed-use, transit-oriented development that would include retail uses at the street level.

In addition, the Proposed Development would include approximately 416 dwelling units, of which approximately 255 would be permanently affordable, including 186 on the Proposed Development Site. By providing 100 percent permanently affordable dwelling units, the Proposed Development would advance the vision set forth in Mayor Bill de Blasio's *Housing New York: A Five-Borough, Ten-Year Plan (Housing New York)* to create and preserve affordable housing in New York City that is necessary to maintain and encourage greater economic diversity within neighborhoods.

EAST 241ST STREET REZONING

FIGURE 1
REGIONAL LOCATION MAP



Directly Affected Area

WAKEFIELD, BRONX, NY

LANGAN

FIGURE 2

EAST 241ST STREET REZONING

DIRECTLY AFFECTED AREA LOCATION



Directly Affected Area

Study Area (400-foot radius)

Proposed Development Site

WAKEFIELD, BRONX, NY

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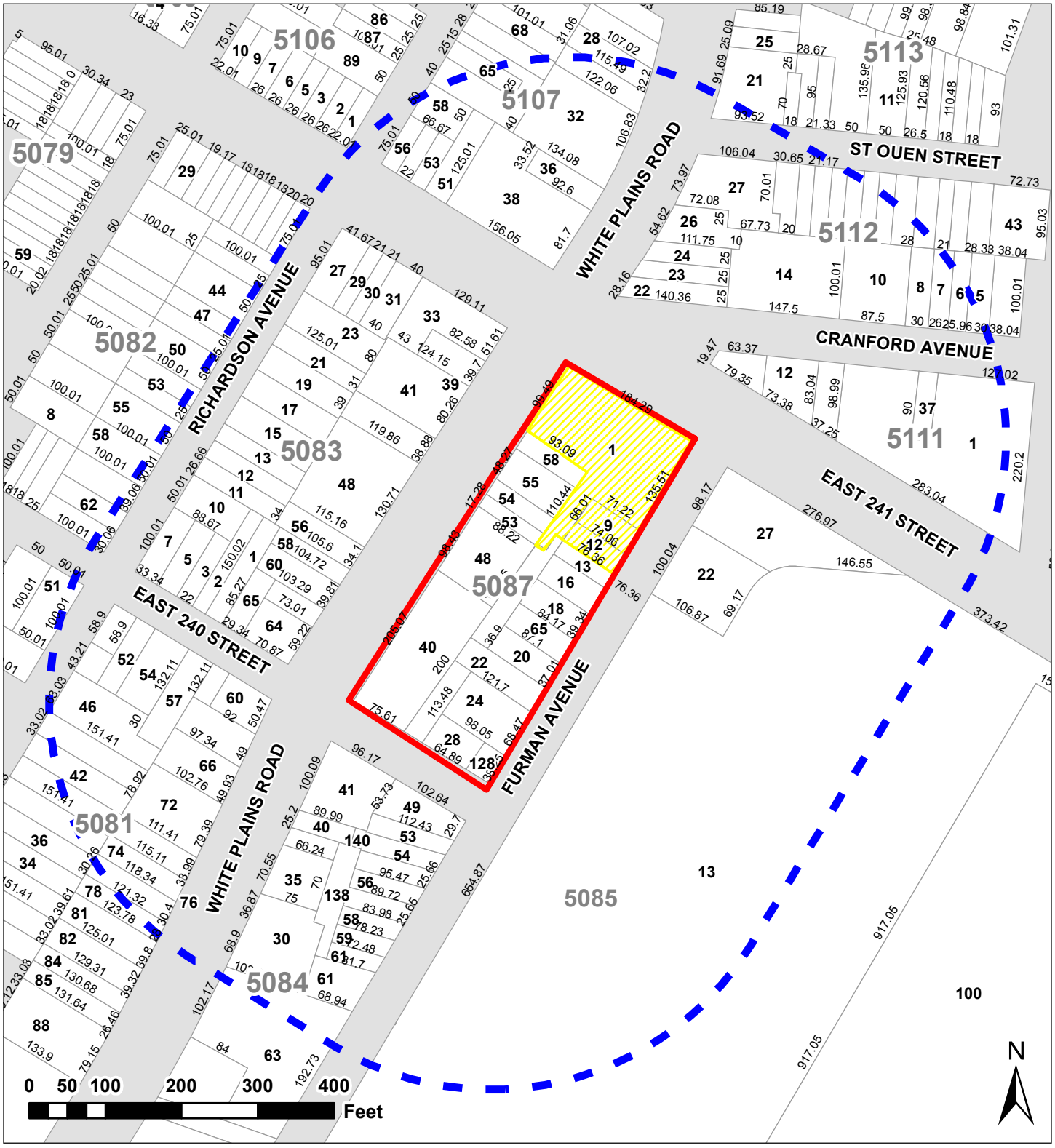
FIGURE 3

TAX MAP

EAST 241ST STREET REZONING



Directly Affected Area

Proposed Development Site

Study Area (400-foot radius)

5087 Tax Block

1 Tax Lot

WAKEFIELD, BRONX, NY

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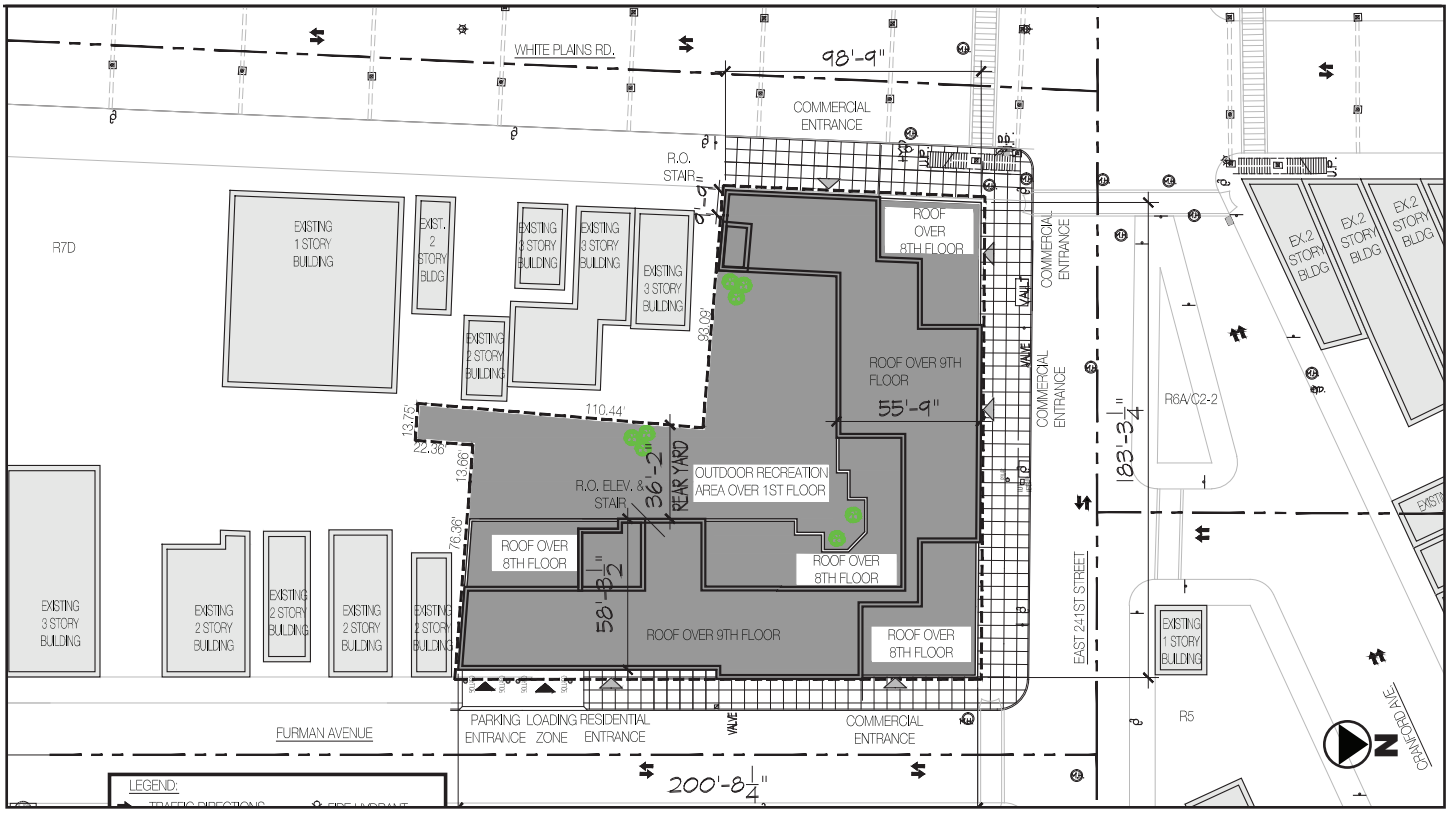
FIGURE 4

EAST 241ST STREET REZONING

PROPOSED DEVELOPMENT PROJECT



PROPOSED SITE PLAN (PROJECTED DEVELOPMENT SITE 1)

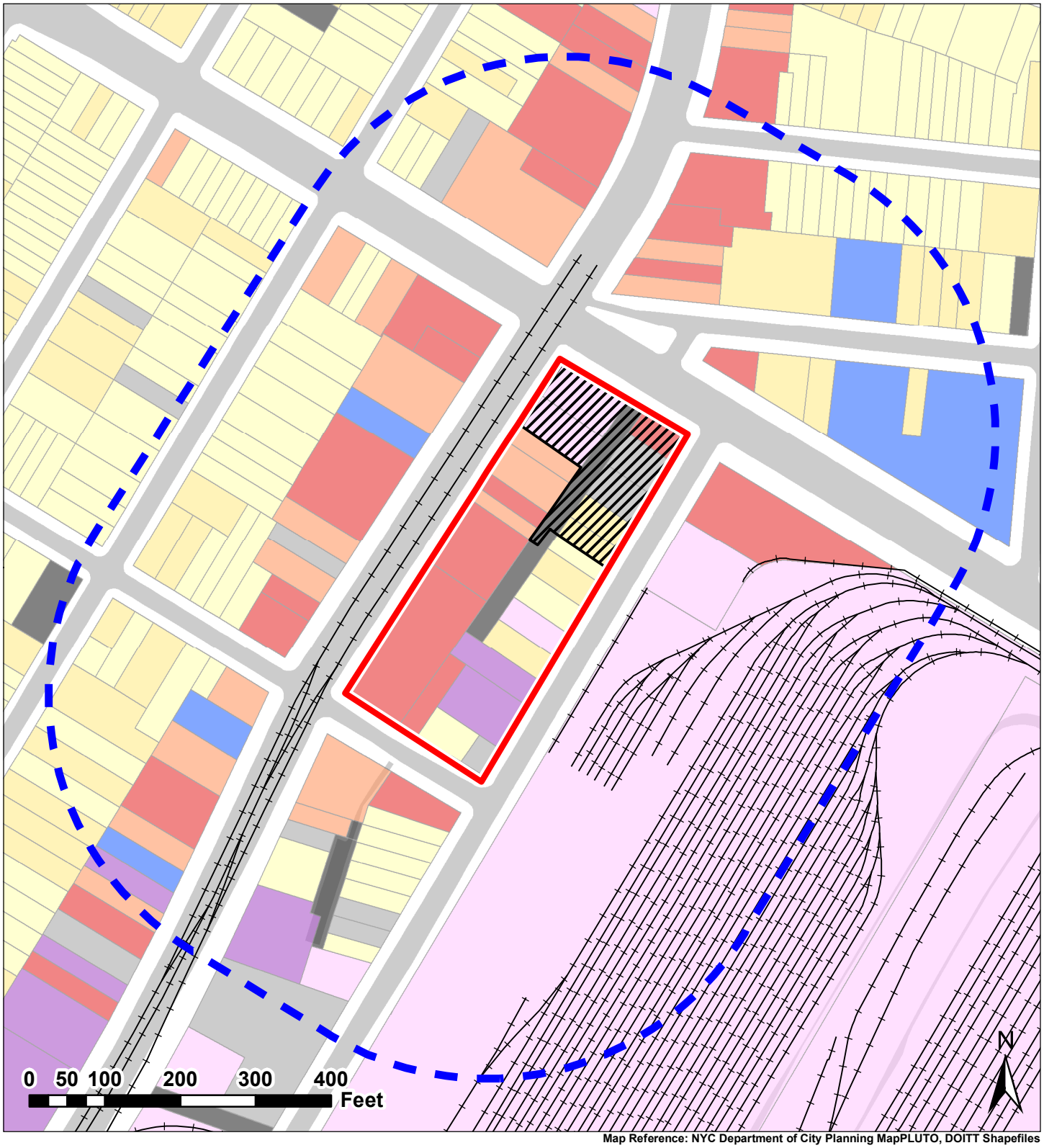


PROPOSED RENDERING (PROJECTED DEVELOPMENT SITE 1)

FIGURE 5

EAST 241ST STREET REZONING

EXISTING LAND USE MAP



Map Reference: NYC Department of City Planning MapPLUTO, DOITT Shapefiles

Study Area (400-foot radius)
Directly Affected Area
Proposed Development Site

Land Use

One & Two Family Residences
Multi Family Walkup Residences
Multi Family Elevator Residences
Mixed Residential/ Commercial
Commercial Uses
Industrial/Manufacturing
Transportation/Utility
Public Facilities/Institutions
Open Space
Parking
Vacant Land

WAKEFIELD, BRONX, NY

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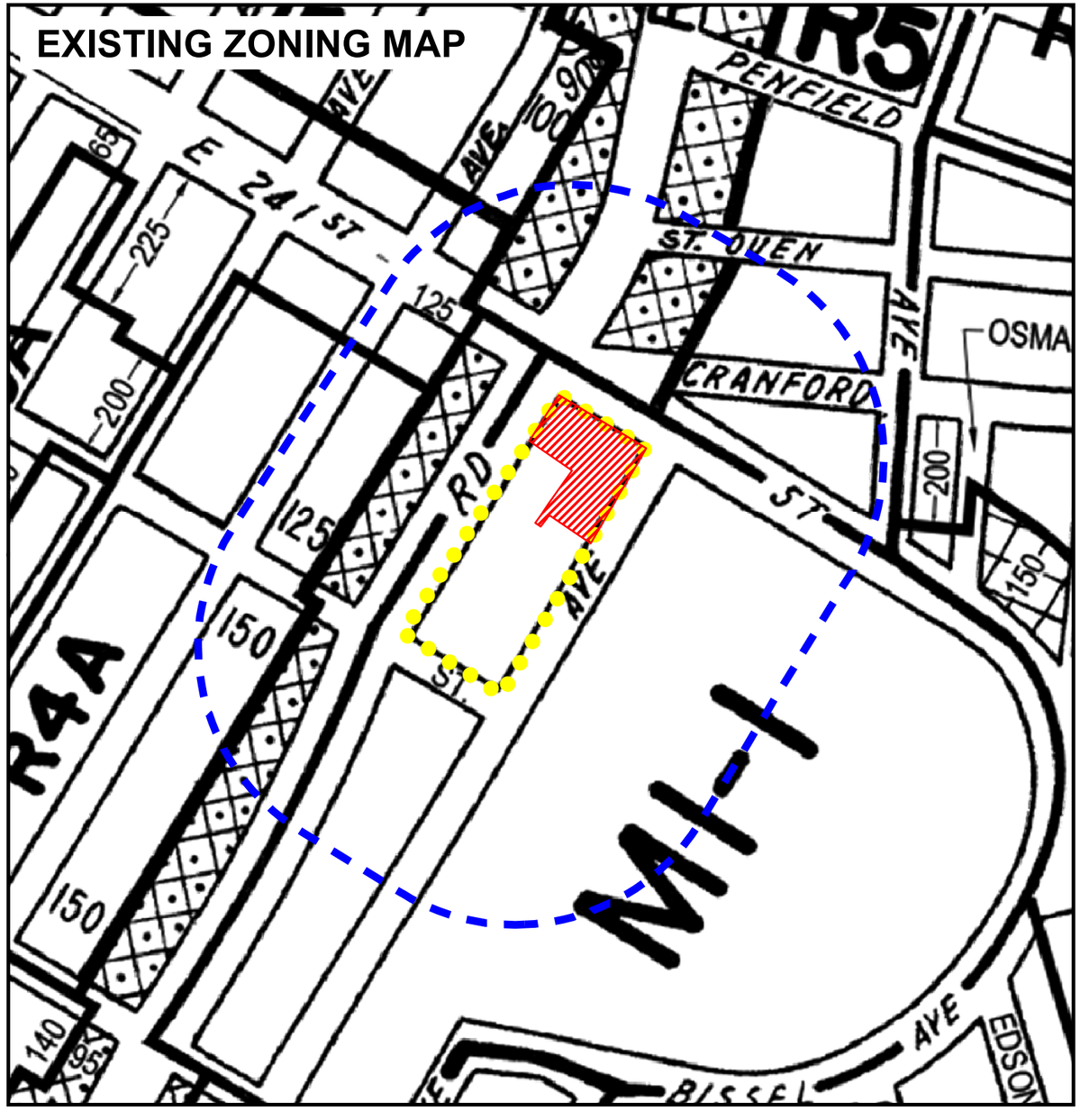
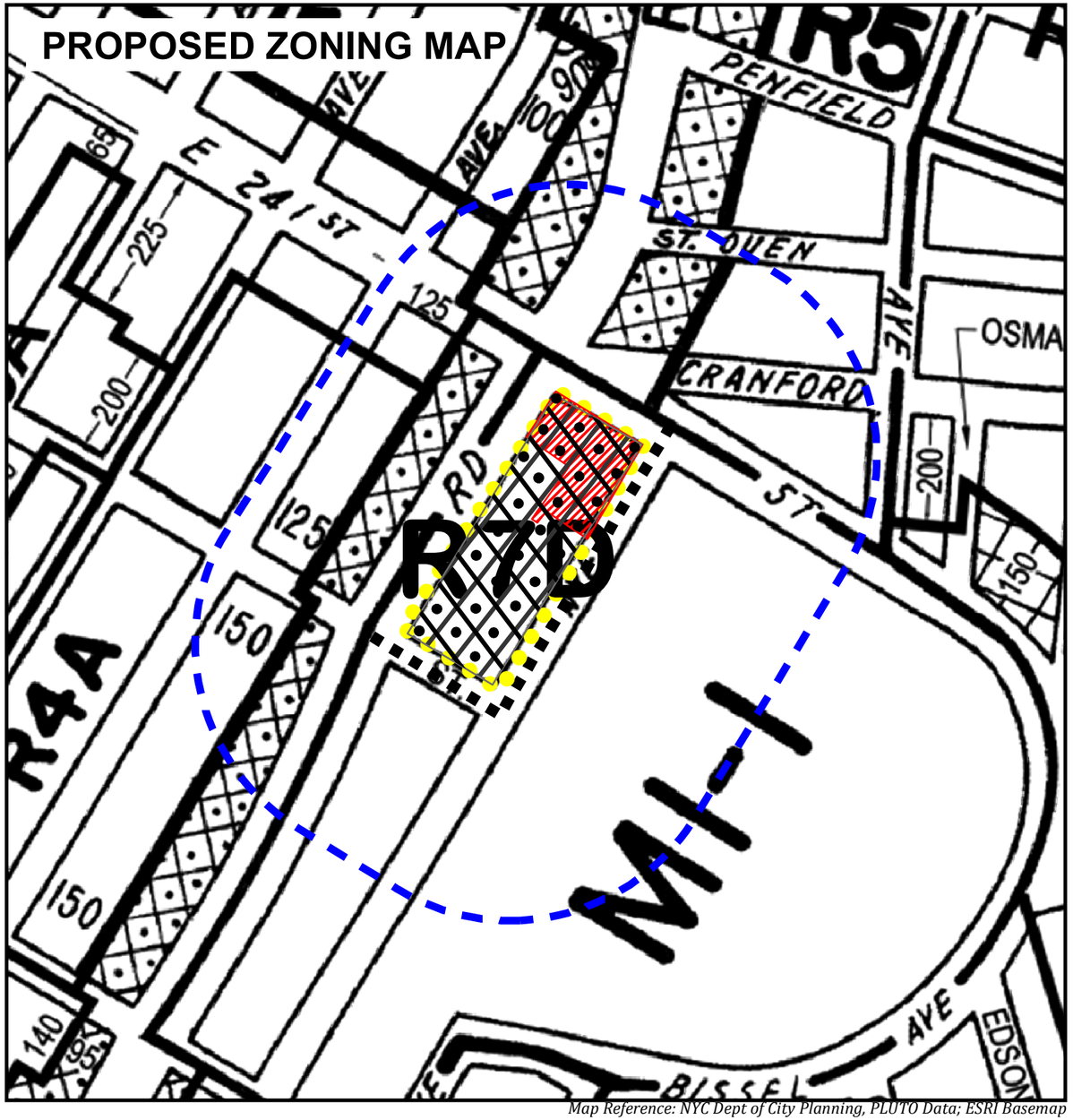
FIGURE 6

EXISTING AND PROPOSED ZONING MAP





Map Reference: NYC Dept of City Planning, PLUTO Data; ESRI Basemap

Directly Affected Area
Proposed Development Site
Study Area (400-foot radius)

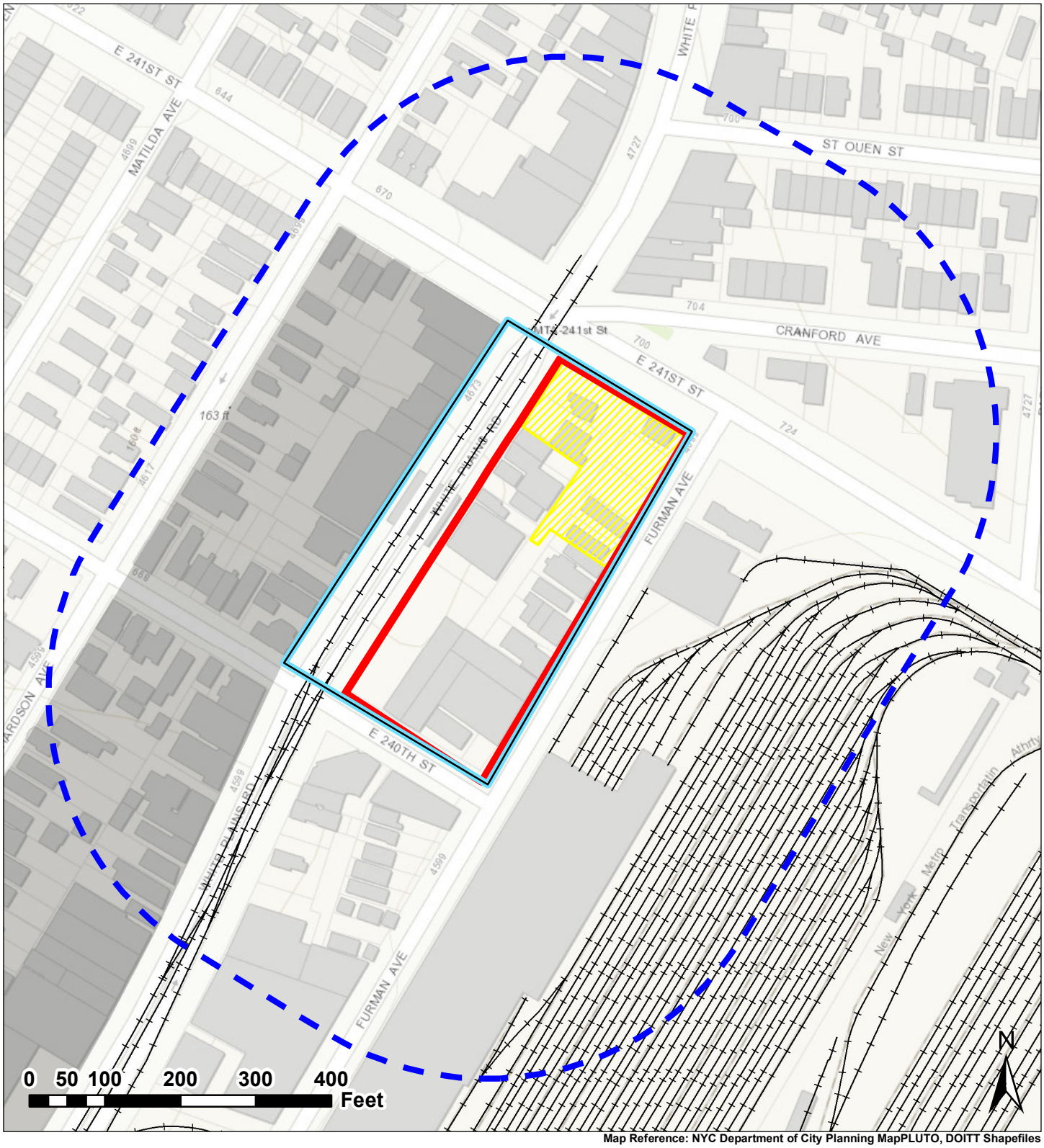
M1-1 Zoning District
Proposed R7D Zoning District

Commercial Overlay
C1-1 C1-2 C1-3 C1-4 C1-5 C2-1 C2-2 C2-3 C2-4 C2-5

FIGURE 7

TRANSIT ZONE MAP

EAST 241ST STREET REZONING



Map Reference: NYC Department of City Planning MapPLUTO, DOITT Shapefiles

- Directly Affected Area
- Proposed Development Site
- Study Area (400-foot radius)
- Existing Transit Zone
- Proposed Transit Zone Extension

WAKEFIELD, BRONX, NY

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DESCRIPTION OF EXISTING AND PROPOSED CONDITIONS

The information requested in this table applies to the Directly Affected Area. The Directly Affected Area consists of the project site and the area subject to any change in regulatory control. The increment is the difference between the No-Action and the With-Action conditions.

NOTE: The information in the table below applies to the all the Projected Development Sites, including the Proposed Development Site, within the Directly Affected Area. The table does not include the Potential Development Sites within the Directly Affected Area.

	EXISTING CONDITION	NO-ACTION CONDITION	WITH-ACTION CONDITION	INCREMENT
LAND USE				
Residential	☒ YES ☐ NO	☒ YES ☐ NO	☒ YES ☐ NO	
If "yes," specify the following:				
Describe type of residential structures	Multifamily Walk Up	Multifamily Walk Up	Multifamily Elevator	Multifamily Elevator
No. of dwelling units	11	11	416	405 dwelling units
No. of low- to moderate-income units	0	0	255	255 affordable units
Gross floor area (sq. ft.)	9,477	9,477	390,230	380,753 gsf
Commercial	☒ YES ☐ NO	☒ YES ☐ NO	☒ YES ☐ NO	
If "yes," specify the following:				
Describe type (retail, office, other)	Retail & Office	Retail & Office	Retail	Retail
Gross floor area (sq. ft.)	11,224	11,224	73,344	62,120 gsf
Manufacturing/Industrial	☒ YES ☐ NO	☐ YES ☒ NO	☐ YES ☒ NO	
If "yes," specify the following:				
Type of use	Industrial	Industrial	None	
Gross floor area (sq. ft.)	11,405	11,405	0	-11,405 gsf
Open storage area (sq. ft.)	0	0	0	0
If any unenclosed activities, specify:	N/A	N/A	N/A	
Community Facility	☐ YES ☒ NO	☐ YES ☒ NO	☒ YES ☐ NO	
If "yes," specify the following:				
Type	N/A	N/A	Office, child care etc.	
Gross floor area (sq. ft.)	0	0	16,862	16,862 gsf
Vacant Land	☒ YES ☐ NO	☒ YES ☒ NO	☐ YES ☒ NO	
If "yes," describe:	Lots 1 is vacant	Lots 1 is vacant		
Publicly Accessible Open Space	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
If "yes," specify type (mapped City, State, or Federal parkland, wetland—mapped or otherwise known, other):				
Other Land Uses	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
If "yes," describe:				
PARKING				
Garages	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
If "yes," specify the following:				
No. of public spaces				
No. of accessory spaces				
Operating hours				
Attended or non-attended				
Lots	☒ YES ☐ NO	☒ YES ☐ NO	☒ YES ☐ NO	
If "yes," specify the following:				
No. of public spaces	0	0	0	0
No. of accessory spaces	63	63	102	39 parking spaces
Operating hours	24	24	24	
Other (includes street parking)	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
If "yes," describe:				

	EXISTING CONDITION	NO-ACTION CONDITION	WITH-ACTION CONDITION	INCREMENT
POPULATION				
Residents	☒ YES ☐ NO	☒ YES ☐ NO	☒ YES ☐ NO	
If "yes," specify number:	27	27	1,028	1,000
Briefly explain how the number of residents was calculated:	The number of residents was calculated using the population multiplier of 2.47, which is the average household size of renter-occupied units in Bronx Census Tract 434 (Selected Housing Characteristics, 2011-2015 American Community Survey 5-Year Estimates)			
Businesses	☒ YES ☐ NO	☒ YES ☐ NO	☒ YES ☐ NO	
If "yes," specify the following:				
No. and type	Commercial, Community Facilities, Industrial	Commercial, Community Facilities, Industrial	Commercial and Community Facilities	
No. and type of workers by business	46	46	293	247
No. and type of non-residents who are not workers	N/A	N/A	N/A	N/A
Briefly explain how the number of businesses was calculated:	Employment estimation: 3 Employees per 1,000 sf of retail and commercial, 1 Employee per 10,000 sf of parking, 1 Employee per 300 sf of community facility/ institutional, 1 Employee per 1,000 sf of industrial and miscellaneous, and 1 Employee per 25 residential dwelling units.			
Other (students, visitors, concert-goers, *etc.*)	☐ YES ☒ NO	☐ YES ☒ NO	☐ YES ☒ NO	
If any, specify type and number:				
Briefly explain how the number was calculated:				
ZONING				
Zoning classification	M1-1	M1-1	R7D/ C2-4	
Maximum amount of floor area that can be developed	77,771 (186,650 for community facility uses)	77,771 (186,650 for community facility uses)	435,517	357,746
Predominant land use and zoning classifications within land use study area(s) or a 400 ft. radius of proposed project	The surrounding area is comprised of residential, commercial and transportation/ utility uses.	The surrounding area is comprised of residential, commercial and transportation/ utility uses.	The surrounding area is comprised of residential, commercial and transportation/ utility uses.	
Attach any additional information that may be needed to describe the project. If your project involves changes that affect one or more sites not associated with a specific development, it is generally appropriate to include total development projections in the above table and attach separate tables outlining the reasonable development scenarios for each site.				

Part II: TECHNICAL ANALYSIS

INSTRUCTIONS: For each of the analysis categories listed in this section, assess the proposed project's impacts based on the thresholds and criteria presented in the CEQR Technical Manual. Check each box that applies.

- If the proposed project can be demonstrated not to meet or exceed the threshold, check the "no" box.
- If the proposed project will meet or exceed the threshold, or if this cannot be determined, check the "yes" box.
- For each "yes" response, provide additional analyses (and, if needed, attach supporting information) based on guidance in the CEQR Technical Manual to determine whether the potential for significant impacts exists. Please note that a "yes" answer does not mean that an EIS must be prepared—it means that more information may be required for the lead agency to make a determination of significance.
- The lead agency, upon reviewing Part II, may require an applicant to provide additional information to support the Full EAS Form. For example, if a question is answered "no," an agency may request a short explanation for this response.

	YES	NO
1. *LAND USE, ZONING, AND PUBLIC POLICY*: CEQR Technical Manual Chapter 4		
(a) Would the proposed project result in a change in land use different from surrounding land uses?	☒	☐
(b) Would the proposed project result in a change in zoning different from surrounding zoning?	☒	☐
(c) Is there the potential to affect an applicable public policy?	☐	☒
○ If "yes," to (a), (b), and/or (c), complete a preliminary assessment and attach. See Attachment C		
(d) Is the project a large, publicly sponsored project?	☐	☒
○ If "yes," complete a PlaNYC assessment and attach.		
(e) Is any part of the directly affected area within the City's Waterfront Revitalization Program boundaries?	☐	☒
○ If "yes," complete the Consistency Assessment Form.		
2. *SOCIOECONOMIC CONDITIONS*: CEQR Technical Manual Chapter 5		
(a) Would the proposed project: See Attachment D.		
○ Generate a net increase of more than 200 residential units *or* 200,000 square feet of commercial space?	☒	☐
▪ If "yes," answer *both* questions 2(b)(ii) and 2(b)(iv) below.		
○ Directly displace 500 or more residents?	☐	☒
▪ If "yes," answer questions 2(b)(i), 2(b)(ii), and 2(b)(iv) below.		
○ Directly displace more than 100 employees?	☐	☒
▪ If "yes," answer questions under 2(b)(iii) and 2(b)(iv) below.		
○ Affect conditions in a specific industry?	☐	☒
▪ If "yes," answer question 2(b)(v) below.		
(b) If "yes" to any of the above, attach supporting information to answer the relevant questions below. If "no" was checked for each category above, the remaining questions in this technical area do not need to be answered.		
i. Direct Residential Displacement		
○ If more than 500 residents would be displaced, would these residents represent more than 5% of the primary study area population?	☐	☐
○ If "yes," is the average income of the directly displaced population markedly lower than the average income of the rest of the study area population?	☐	☐
ii. Indirect Residential Displacement		
○ Would expected average incomes of the new population exceed the average incomes of study area populations?	☐	☒
○ If "yes:"		
▪ Would the population of the primary study area increase by more than 10 percent?	☐	☐
▪ Would the population of the primary study area increase by more than 5 percent in an area where there is the potential to accelerate trends toward increasing rents?	☐	☐
○ If "yes" to either of the preceding questions, would more than 5 percent of all housing units be renter-occupied and unprotected?	☐	☐
iii. Direct Business Displacement		
○ Do any of the displaced businesses provide goods or services that otherwise would not be found within the trade area, either under existing conditions or in the future with the proposed project?	☐	☐
○ Is any category of business to be displaced the subject of other regulations or publicly adopted plans to preserve, enhance, or otherwise protect it?	☐	☒
iv. Indirect Business Displacement		
○ Would the project capture retail sales in a particular category of goods to the extent that the market for such goods would become saturated, potentially resulting in vacancies and disinvestment on neighborhood commercial streets?	☐	☒
○ Would the project potentially introduce trends that make it difficult for businesses to remain in the area?	☐	☒

	YES	NO
v. Effects on Industry		
○ Would the project significantly affect business conditions in any industry or any category of businesses within or outside the study area?	☐	☐
○ Would the project indirectly substantially reduce employment or impair the economic viability in the industry or category of businesses?	☐	☐
3. *COMMUNITY FACILITIES*: CEQR Technical Manual Chapter 6		
(a) Direct Effects		
○ Would the project directly eliminate, displace, or alter public or publicly funded community facilities such as educational facilities, libraries, health care facilities, day care centers, police stations, or fire stations?	☐	☒
(b) Indirect Effects		
i. Child Care Centers		
○ Would the project result in 20 or more eligible children under age 6, based on the number of low or low/moderate income residential units? (See Table 6-1 in Chapter 6) See Attachment E.	☒	☐
○ If "yes," would the project result in a collective utilization rate of the group child care/Head Start centers in the study area that is greater than 100 percent?	☒	☐
○ If "yes," would the project increase the collective utilization rate by 5 percent or more from the No-Action scenario?	☒	☐
ii. Libraries		
○ Would the project result in a 5 percent or more increase in the ratio of residential units to library branches? (See Table 6-1 in Chapter 6)	☐	☒
○ If "yes," would the project increase the study area population by 5 percent or more from the No-Action levels?	☐	☐
○ If "yes," would the additional population impair the delivery of library services in the study area?	☐	☐
iii. Public Schools		
○ Would the project result in 50 or more elementary or middle school students, or 150 or more high school students based on number of residential units? (See Table 6-1 in Chapter 6)	☒	☐
○ If "yes," would the project result in a collective utilization rate of the elementary and/or intermediate schools in the study area that is equal to or greater than 100 percent?	☒	☐
○ If "yes," would the project increase this collective utilization rate by 5 percent or more from the No-Action scenario?	☐	☒
iv. Health Care Facilities		
○ Would the project result in the introduction of a sizeable new neighborhood?	☐	☒
○ If "yes," would the project affect the operation of health care facilities in the area?	☐	☐
v. Fire and Police Protection		
○ Would the project result in the introduction of a sizeable new neighborhood?	☐	☒
○ If "yes," would the project affect the operation of fire or police protection in the area?	☐	☐
4. *OPEN SPACE*: CEQR Technical Manual Chapter 7		
(a) Would the project change or eliminate existing open space?	☐	☒
(b) Is the project located within an under-served area in the Bronx, Brooklyn, Manhattan, Queens, or Staten Island?	☐	☒
(c) If "yes," would the project generate more than 50 additional residents or 125 additional employees?	☐	☐
(d) Is the project located within a well-served area in the Bronx, Brooklyn, Manhattan, Queens, or Staten Island?	☐	☒
(e) If "yes," would the project generate more than 350 additional residents or 750 additional employees?	☐	☐
(f) If the project is located in an area that is neither under-served nor well-served, would it generate more than 200 additional residents or 500 additional employees?	☒	☐
○ If in an under-served area, would the project result in a decrease in the open space ratio by more than 1 percent?	☐	☐
○ If in an area that is not under-served, would the project result in a decrease in the open space ratio by more than 5 percent?	☐	☒
○ If "yes," are there qualitative considerations, such as the quality of open space, that need to be considered? Please specify:	☐	☐
(g) If "yes" to questions (c), (e), or (f) above, attach supporting information to answer the following:		
○ If in an under-served area, would the project result in a decrease in the open space ratio by more than 1 percent?	☐	☐
○ If in an area that is not under-served, would the project result in a decrease in the open space ratio by more than 5 percent? See Attachment F.	☐	☒
○ If "yes," are there qualitative considerations, such as the quality of open space, that need to be considered? Please specify:	☐	☐

	YES	NO
5. *SHADOWS*: CEQR Technical Manual Chapter 8		
(a) Would the proposed project result in a net height increase of any structure of 50 feet or more?	☒	☐
(b) Would the proposed project result in any increase in structure height and be located adjacent to or across the street from a sunlight-sensitive resource?	☐	☒
(c) If "yes" to either of the above questions, attach supporting information explaining whether the project's shadow would reach any sunlight-sensitive resource at any time of the year. See Attachment G.		
6. *HISTORIC AND CULTURAL RESOURCES*: CEQR Technical Manual Chapter 9		
(a) Does the proposed project site or an adjacent site contain any architectural and/or archaeological resource that is eligible for or has been designated (or is calendared for consideration) as a New York City Landmark, Interior Landmark or Scenic Landmark; that is listed or eligible for listing on the New York State or National Register of Historic Places; or that is within a designated or eligible New York City, New York State or National Register Historic District? (See the GIS System for Archaeology and National Register to confirm)	☐	☒
(b) Would the proposed project involve construction resulting in in-ground disturbance to an area not previously excavated?	☐	☒
(c) If "yes" to either of the above, list any identified architectural and/or archaeological resources and attach supporting information on whether the proposed project would potentially affect any architectural or archeological resources. See Attachment H.		
7. *URBAN DESIGN AND VISUAL RESOURCES*: CEQR Technical Manual Chapter 10		
(a) Would the proposed project introduce a new building, a new building height, or result in any substantial physical alteration to the streetscape or public space in the vicinity of the proposed project that is not currently allowed by existing zoning?	☒	☐
(b) Would the proposed project result in obstruction of publicly accessible views to visual resources not currently allowed by existing zoning?	☐	☒
(c) If "yes" to either of the above, please provide the information requested in Chapter 10. See Attachment I.		
8. *NATURAL RESOURCES*: CEQR Technical Manual Chapter 11		
(a) Does the proposed project site or a site adjacent to the project contain natural resources as defined in Section 100 of Chapter 11?	☐	☒
○ If "yes," list the resources and attach supporting information on whether the project would affect any of these resources.		
(b) Is any part of the directly affected area within the Jamaica Bay Watershed?	☐	☒
○ If "yes," complete the Jamaica Bay Watershed Form and submit according to its instructions.		
9. *HAZARDOUS MATERIALS*: CEQR Technical Manual Chapter 12		
(a) Would the proposed project allow commercial or residential uses in an area that is currently, or was historically, a manufacturing area that involved hazardous materials?	☒	☐
(b) Does the proposed project site have existing institutional controls (*e.g.*, (E) designation or Restrictive Declaration) relating to hazardous materials that preclude the potential for significant adverse impacts?	☐	☒
(c) Would the project require soil disturbance in a manufacturing area or any development on or near a manufacturing area or existing/historic facilities listed in Appendix 1 (including nonconforming uses)?	☒	☐
(d) Would the project result in the development of a site where there is reason to suspect the presence of hazardous materials, contamination, illegal dumping or fill, or fill material of unknown origin?	☒	☐
(e) Would the project result in development on or near a site that has or had underground and/or aboveground storage tanks (*e.g.*, gas stations, oil storage facilities, heating oil storage)?	☒	☐
(f) Would the project result in renovation of interior existing space on a site with the potential for compromised air quality; vapor intrusion from either on-site or off-site sources; or the presence of asbestos, PCBs, mercury or lead-based paint?	☐	☒
(g) Would the project result in development on or near a site with potential hazardous materials issues such as government-listed voluntary cleanup/brownfield site, current or former power generation/transmission facilities, coal gasification or gas storage sites, railroad tracks or rights-of-way, or municipal incinerators?	☐	☒
(h) Has a Phase I Environmental Site Assessment been performed for the site?	☒	☐
○ If "yes," were Recognized Environmental Conditions (RECs) identified? Briefly identify: See Attachment J.	☒	☐
(i) Based on the Phase I Assessment, is a Phase II Investigation needed?	☒	☐
10. *WATER AND SEWER INFRASTRUCTURE*: CEQR Technical Manual Chapter 13		
(a) Would the project result in water demand of more than one million gallons per day?	☐	☒
(b) If the proposed project located in a combined sewer area, would it result in at least 1,000 residential units or 250,000 square feet or more of commercial space in Manhattan, or at least 400 residential units or 150,000 square feet or more of commercial space in the Bronx, Brooklyn, Staten Island, or Queens?	☒	☐
(c) If the proposed project located in a separately sewered area, would it result in the same or greater development than that listed in Table 13-1 in Chapter 13?	☐	☐

	YES	NO
(d) Would the project involve development on a site that is 5 acres or larger where the amount of impervious surface would increase?	☐	☒
(e) If the project is located within the Jamaica Bay Watershed or in certain specific drainage areas, including Bronx River, Coney Island Creek, Flushing Bay and Creek, Gowanus Canal, Hutchinson River, Newtown Creek, or Westchester Creek, would it involve development on a site that is 1 acre or larger where the amount of impervious surface would increase?	☒	☐
(f) Would the proposed project be located in an area that is partially sewered or currently unsewered?	☐	☒
(g) Is the project proposing an industrial facility or activity that would contribute industrial discharges to a Wastewater Treatment Plant and/or contribute contaminated stormwater to a separate storm sewer system?	☐	☒
(h) Would the project involve construction of a new stormwater outfall that requires federal and/or state permits?	☐	☒
(i) If "yes" to any of the above, conduct the appropriate preliminary analyses and attach supporting documentation. See Attachment L.		
11. *SOLID WASTE AND SANITATION SERVICES*: CEQR Technical Manual Chapter 14		
(a) Using Table 14-1 in Chapter 14, the project's projected operational solid waste generation is estimated to be (pounds per week): 34,944		
○ Would the proposed project have the potential to generate 100,000 pounds (50 tons) or more of solid waste per week?	☐	☒
(b) Would the proposed project involve a reduction in capacity at a solid waste management facility used for refuse or recyclables generated within the City?	☐	☒
○ If "yes," would the proposed project comply with the City's Solid Waste Management Plan?	☐	☐
12. *ENERGY*: CEQR Technical Manual Chapter 15		
(a) Using energy modeling or Table 15-1 in Chapter 15, the project's projected energy use is estimated to be (annual BTUs): 69.5 MBTU		
(b) Would the proposed project affect the transmission or generation of energy?	☐	☒
13. *TRANSPORTATION*: CEQR Technical Manual Chapter 16		
(a) Would the proposed project exceed any threshold identified in Table 16-1 in Chapter 16? See Attachment J.	☒	☐
(b) If "yes," conduct the appropriate screening analyses, attach back up data as needed for each stage, and answer the following questions:		
○ Would the proposed project result in 50 or more Passenger Car Equivalents (PCEs) per project peak hour?	☒	☐
If "yes," would the proposed project result in 50 or more vehicle trips per project peak hour at any given intersection?	☒	☐
○ Would the proposed project result in more than 200 subway/rail or bus trips per project peak hour?	☒	☐
If "yes," would the proposed project result, per project peak hour, in 50 or more bus trips on a single line (in one direction) or 200 subway/rail trips per station or line?	☐	☒
○ Would the proposed project result in more than 200 pedestrian trips per project peak hour?	☒	☐
If "yes," would the proposed project result in more than 200 pedestrian trips per project peak hour to any given pedestrian or transit element, crosswalk, subway stair, or bus stop?	☒	☐
14. *AIR QUALITY*: CEQR Technical Manual Chapter 17		
(a) *Mobile Sources*: Would the proposed project result in the conditions outlined in Section 210 in Chapter 17?	☐	☒
(b) *Stationary Sources*: Would the proposed project result in the conditions outlined in Section 220 in Chapter 17?	☐	☒
○ If "yes," would the proposed project exceed the thresholds in Figure 17-3, Stationary Source Screen Graph in Chapter 17? (Attach graph as needed)	☐	☐
(c) Does the proposed project involve multiple buildings on the project site?	☒	☐
(d) Does the proposed project require federal approvals, support, licensing, or permits subject to conformity requirements?	☐	☒
(e) Does the proposed project site have existing institutional controls (*e.g.*, (E) designation or Restrictive Declaration) relating to air quality that preclude the potential for significant adverse impacts?	☐	☒
(f) If "yes" to any of the above, conduct the appropriate analyses and attach any supporting documentation. See Attachment M.		
15. *GREENHOUSE GAS EMISSIONS*: CEQR Technical Manual Chapter 18		
(a) Is the proposed project a city capital project or a power generation plant?	☐	☒
(b) Would the proposed project fundamentally change the City's solid waste management system?	☐	☒
(c) Would the proposed project result in the development of 350,000 square feet or more?	☒	☐
(d) If "yes" to any of the above, would the project require a GHG emission assessment based on guidance in Chapter 18?	☐	☒
○ If "yes," would the project result in inconsistencies with the City's GHG reduction goal? (See Local Law 22 of 2008; § 24-803 of the Administrative Code of the City of New York). Please attach supporting documentation.	☐	☐
16. *NOISE*: CEQR Technical Manual Chapter 19		
(a) Would the proposed project generate or reroute vehicular traffic? See Attachment N.	☒	☐

	YES	NO
(b) Would the proposed project introduce new or additional receptors (see Section 124 in Chapter 19) near heavily trafficked roadways, within one horizontal mile of an existing or proposed flight path, or within 1,500 feet of an existing or proposed rail line with a direct line of site to that rail line?	☒	☐
(c) Does the proposed project site have existing institutional controls (e.g., (E) designation or Restrictive Declaration) relating to noise that preclude the potential for significant adverse impacts?	☐	☒
(d) If "yes" to any of the above, conduct the appropriate analyses and attach any supporting documentation. See Attachment K		
17. *PUBLIC HEALTH*: CEQR Technical Manual Chapter 20		
(a) Based upon the analyses conducted, do any of the following technical areas require a detailed analysis: Air Quality; Hazardous Materials; Noise?	☐	☒
(b) If "yes," explain why an assessment of public health is or is not warranted based on the guidance in Chapter 20, "Public Health." Attach a preliminary analysis, if necessary.		
18. *NEIGHBORHOOD CHARACTER*: CEQR Technical Manual Chapter 21		
(a) Based upon the analyses conducted, do any of the following technical areas require a detailed analysis: Land Use, Zoning, and Public Policy; Socioeconomic Conditions; Open Space; Historic and Cultural Resources; Urban Design and Visual Resources; Shadows; Transportation; Noise? See Attachment O.	☐	☒
(b) If "yes," explain why an assessment of neighborhood character is or is not warranted based on the guidance in Chapter 21, "Neighborhood Character." Attach a preliminary analysis, if necessary.		
19. *CONSTRUCTION*: CEQR Technical Manual Chapter 22		
(a) Would the project's construction activities involve:		
○ Construction activities lasting longer than two years?	☒	☐
○ Construction activities within a Central Business District or along an arterial highway or major thoroughfare?	☐	☒
○ Closing, narrowing, or otherwise impeding traffic, transit, or pedestrian elements (roadways, parking spaces, bicycle routes, sidewalks, crosswalks, corners, *etc.*)?	☐	☒
○ Construction of multiple buildings where there is a potential for on-site receptors on buildings completed before the final build-out? See Attachment P.	☒	☐
○ The operation of several pieces of diesel equipment in a single location at peak construction?	☐	☒
○ Closure of a community facility or disruption in its services?	☐	☒
○ Activities within 400 feet of a historic or cultural resource?	☐	☒
○ Disturbance of a site containing or adjacent to a site containing natural resources?	☐	☒
○ Construction on multiple development sites in the same geographic area, such that there is the potential for several construction timelines to overlap or last for more than two years overall?	☐	☒
(b) If any boxes are checked "yes," explain why a preliminary construction assessment is or is not warranted based on the guidance in Chapter 22, "Construction." It should be noted that the nature and extent of any commitment to use the Best Available Technology for construction equipment or Best Management Practices for construction activities should be considered when making this determination.		

20. *APPLICANT'S CERTIFICATION*

I swear or affirm under oath and subject to the penalties for perjury that the information provided in this Environmental Assessment Statement (EAS) is true and accurate to the best of my knowledge and belief, based upon my personal knowledge and familiarity with the information described herein and after examination of the pertinent books and records and/or after inquiry of persons who have personal knowledge of such information or who have examined pertinent books and records.

Still under oath, I further swear or affirm that I make this statement in my capacity as the applicant or representative of the entity that seeks the permits, approvals, funding, or other governmental action(s) described in this EAS.

APPLICANT/REPRESENTATIVE NAME	SIGNATURE	DATE
Michael Keane, AICP		18 May 2018

PLEASE NOTE THAT APPLICANTS MAY BE REQUIRED TO SUBSTANTIATE RESPONSES IN THIS FORM AT THE DISCRETION OF THE LEAD AGENCY SO THAT IT MAY SUPPORT ITS DETERMINATION OF SIGNIFICANCE.

Part III: DETERMINATION OF SIGNIFICANCE (To Be Completed by Lead Agency)

INSTRUCTIONS: In completing Part III, the lead agency should consult 6 NYCRR 617.7 and 43 RCNY § 6-06 (Executive Order 91 or 1977, as amended), which contain the State and City criteria for determining significance.

1. For each of the impact categories listed below, consider whether the project may have a significant adverse effect on the environment, taking into account its (a) location; (b) probability of occurring; (c) duration; (d) irreversibility; (e) geographic scope; and (f) magnitude.

IMPACT CATEGORY	Potentially Significant Adverse Impact YES	NO
Land Use, Zoning, and Public Policy	☐	☒
Socioeconomic Conditions	☐	☒
Community Facilities and Services	☐	☒
Open Space	☐	☒
Shadows	☐	☒
Historic and Cultural Resources	☐	☒
Urban Design/Visual Resources	☐	☒
Natural Resources	☐	☒
Hazardous Materials	☐	☒
Water and Sewer Infrastructure	☐	☒
Solid Waste and Sanitation Services	☐	☒
Energy	☐	☒
Transportation	☐	☒
Air Quality	☐	☒
Greenhouse Gas Emissions	☐	☒
Noise	☐	☒
Public Health	☐	☒
Neighborhood Character	☐	☒
Construction	☐	☒

2. Are there any aspects of the project relevant to the determination of whether the project may have a significant impact on the environment, such as combined or cumulative impacts, that were not fully covered by other responses and supporting materials? ☐ YES ☒ NO

If there are such impacts, attach an explanation stating whether, as a result of them, the project may have a significant impact on the environment.

3. Check determination to be issued by the lead agency:

☐ **Positive Declaration**: If the lead agency has determined that the project may have a significant impact on the environment, and if a Conditional Negative Declaration is not appropriate, then the lead agency issues a *Positive Declaration* and prepares a draft Scope of Work for the Environmental Impact Statement (EIS).

☐ **Conditional Negative Declaration:** A *Conditional Negative Declaration* (CND) may be appropriate if there is a private applicant for an Unlisted action AND when conditions imposed by the lead agency will modify the proposed project so that no significant adverse environmental impacts would result. The CND is prepared as a separate document and is subject to the requirements of 6 NYCRR Part 617.

☒ **Negative Declaration:** If the lead agency has determined that the project would not result in potentially significant adverse environmental impacts, then the lead agency issues a *Negative Declaration*. The *Negative Declaration* may be prepared as a separate document (see template) or using the embedded Negative Declaration on the next page.

4. ***LEAD AGENCY'S CERTIFICATION***

TITLE	LEAD AGENCY
Deputy Director, Environmental Assessment and Review Division	Department of City Planning, acting on behalf of the City Planning Commission
NAME	DATE
Olga Abinader	August 17, 2018

SIGNATURE



NEGATIVE DECLARATION (Use of this form is optional)

Statement of No Significant Effect

Pursuant to Executive Order 91 of 1977, as amended, and the Rules of Procedure for City Environmental Quality Review, found at Title 62, Chapter 5 of the Rules of the City of New York and 6 NYCRR, Part 617, State Environmental Quality Review, the Department of City Planning, acting on behalf of the City Planning Commission assumed the role of lead agency for the environmental review of the proposed project. Based on a review of information about the project contained in this environmental assessment statement and any attachments hereto, which are incorporated by reference herein, the lead agency has determined that the proposed project would not have a significant adverse impact on the environment.

Reasons Supporting this Determination

The above determination is based on information contained in this EAS, which that finds the proposed project:
and related actions sought before the City Planning Commission would have no significant effect on the quality of the environment. Reasons supporting this Determination are noted below.

Hazardous Materials, Air Quality, and Noise:

1. An (E) designation (E-484) for hazardous materials, air quality, and noise has been incorporated into the proposed actions. Refer to "Determination of Significance Appendix: (E) Designation" for a list of the sites affected by the proposed (E) Designation and applicable (E) Designation requirements. The analyses conducted for hazardous materials, air quality, and noise conclude that with the (E) Designation requirements in place, the Proposed Action would not result in significant adverse impacts to hazardous materials, air quality, or noise.

Land Use, Zoning and Public Policy:

2. This EAS includes a detailed Land Use, Zoning, and Public Policy section. This section concludes that the Proposed Action, which would facilitate construction of new mixed-use buildings within the Project Area, would not generate new land uses that would be incompatible with current land uses within the Study Area, as the Study Area currently contains mixed-use residential and commercial land uses. The analysis further concludes that there would be no significant adverse impacts related to Zoning. As the proposed R7D/C2-2 zoning district would facilitate developments contextually similar in terms of bulk and use with other buildings In adjacent areas mapped with RS and R6 zoning districts. Additionally, in terms of Public Policy, while this Project Area is located within a FRESH Zone, the Public Policy analysis concludes that the proposed C2-4 commercial overlay would permit supermarkets as-of-right, and as such would not adversely impact the FRESH public policy.

Open Space:

3. This EAS includes a detailed Open Space section. The Open Space analysis discloses the incremental difference between the No-Action and With-Action conditions would decrease the Open Space Ratio for both active and passive use by 4.33 percent, while this is below the 5 percent impact threshold established in the CEQR Technical Manual, the existing Open Space Ratio within the Open Space Study Area is 0.37 acres per 1,000 residents, below established planning goals of 2.50 acres of active and passive open space per 1,000 residents. As such, a detailed analysis was performed that included a qualitative assessment which concluded that while the Open Space Study Area is presently lacking in open space resources, these conditions are offset by three open space resources within one mile of Directly Affected Area. These Include Bronx River Park Reservation and Wakefield Park, both in Yonkers (Westchester County) as well as Van Cortlandt Park in the Bronx, a large destination park with ample active and passive open space resources. Due to the Directly Affected Area's location close to these resources, the Open Space analysis concludes that no significant adverse Impacts with respect to Open Space are foreseeable.

No other significant effects upon the environment that would require the preparation of a Draft Environmental Impact Statement are foreseeable. This Negative Declaration has been prepared in accordance with Article 8 of the New York State Environmental Conservation Law (SEQRA).

TITLE	LEAD AGENCY
Deputy Director, Environmental Assessment and Review Division	Department of City Planning, acting on behalf of the City Planning Commission
NAME	**DATE**
Olga Abinader	August 17, 2018
SIGNATURE	

TITLE Chair, Department of City Planning	
NAME Marisa Lago	DATE August 20, 2018
SIGNATURE	

(E) Designations Addendum

To ensure that there would be no significant adverse hazardous material, air quality or noise impacts associated with the proposed project, an E designation **(E-484)** will be placed on the project sites as follows:

The E designation requirements related to hazardous materials, air quality, and noise would apply to:

Projected Development Site 1:
Block 5087, Lots 1, 9 and 12

Projected Development Site 2:
Block 5087, Lots 16 and 18

Projected Development Site 3:
Block 5087, Lots 22, 24, 28, 33 and 128

Projected Development Site 4:
Block 5087, Lot 40

Projected Development Site 5
Block 5087, Lot 48

Potential Development Site A
Block 5087, Lots 13 and 65

Potential Development Site B
Block 5087, Lots 14 and 65

Potential Development Site C
Block 5087, Lots 20 and 65

Potential Development Site D
Block 5087, Lots 53 and 54

Potential Development Site E
Block 5087, Lots 55 and 58

Hazardous Materials

Task 1:

The applicant submits to OER, for review and approval, a Phase 1A of the site along with a soil and groundwater testing protocol, including a description of methods and a site map with all sampling locations clearly and precisely represented.

If site sampling is necessary, no sampling should begin until written approval of a protocol is received from OER. The number and location of sample sites should be selected to adequately characterize the site, the specific source of suspected contamination (i.e., petroleum based

contamination and non-petroleum based contamination), and the remainder of the site's condition. The characterization should be complete enough to determine what remediation strategy (if any) is necessary after review of sampling data. Guidelines and criteria for selecting sampling locations and collecting samples are provided by OER upon request.

Task 2:

A written report with findings and a summary of the data must be submitted to OER after completion of the testing phase and laboratory analysis for review and approval. After receiving such results, a determination is made by OER if the results indicate that remediation is necessary. If OER determines that no remediation is necessary, written notice shall be given by OER.

If remediation is indicated from the test results, a proposed remediation plan must be submitted to OER for review and approval. The applicant must complete such remediation as determined necessary by OER. The applicant should then provide proper documentation that the work has been satisfactorily completed.

An OER-approved construction-related health and safety plan would be implemented during evacuation and construction and activities to protect workers and the community from potentially significant adverse impacts associated with contaminated soil and/or groundwater. This plan would be submitted to OER for review and approval prior to implementation.

Air Quality

To prevent Project-on-Existing and Project-on-Project air quality impacts from stationary sources, an (E) designation (E-484) will be assigned to the Project building for air quality. By placing (E) designations on sites where there is a known or potential environmental concern, the potential for an adverse impact to human health and the environment resulting from the Proposed Action would be reduced or avoided. The (E) designation provides the impetus to identify and address facilities, activities or environmental conditions so that significant adverse impacts during site development would be reduced. The New York City Office of Environmental Remediation (OER) would provide regulatory oversight of the environmental investigation and remediation during this process. Building permits are not issued by the DOB without prior OER approval of the investigation and/or remediation pursuant to the provisions of Section 11 15 of the New York City Zoning Resolution (Environmental Requirements). The requirements of (E) designation (E-484) are summarized as follows:

Projected Development Site	Block	Lot	Proposed (E) Designation
1	5087	1, 9 and 12	Any new residential and/or commercial development on Block 5087, Lot 1, 9 and 12 must exclusively use natural gas as the type of fuel for HVAC systems, and ensure that the heating, ventilating and air conditioning stack(s) is located at least 137 feet above grade and at least 59 feet away from the westerly lot line facing E. 240th Street and at least 20 feet away from the northerly lot line facing White Plains Road, to avoid any potential significant air quality impacts.

Projected Development Site	Block	Lot	Proposed (E) Designation
2	5087	16 and 18	Any new residential and/or commercial development on Block 5087, Lot 16 and 18 must exclusively use natural gas as the type of fuel for HVAC systems, and ensure that the heating, ventilating and air conditioning stack(s) is located at least 124 feet above grade and at least 66 feet away from the westerly lot line facing E. 240th Street and at least 9 feet away from the easterly lot line facing E. 241st Street, to avoid any potential significant air quality impacts.
3	5087	22, 24, 28, 33 and 128	Any new residential and/or commercial development on Block 5087, Lot 22, 24, 28, 33 and 128 must exclusively use natural gas as the type of fuel for HVAC systems, and ensure that the heating, ventilating and air conditioning stack(s) is located at least 137 feet above grade and at least 102 feet away from the easterly lot line facing E. 241st Street and at least 10 feet away from the northerly lot line facing White Plains Road, to avoid any potential significant air quality impacts.
4	5087	40	Any new residential and/or commercial development on Block 5087, Lot 40 must exclusively use natural gas as the type of fuel for HVAC systems, and ensure that the heating, ventilating and air conditioning stack(s) is located at the highest tier or at least 118 feet above grade and at least 70 feet away from the easterly lot line facing E. 241st Street and at least 70 feet away from the southerly lot line facing Furman Avenue, to avoid any potential significant air quality impacts.
5	5087	48	Any new residential and/or commercial development on Block 5087, Lot 48 must exclusively use natural gas as the type of fuel for HVAC systems, and ensure that the heating, ventilating and air conditioning stack(s) is located at the highest tier or at least 118 feet above grade and at least 60 feet away from the southerly lot line facing Furman Avenue, to avoid any potential significant air quality impacts.
Potential Development Site	**Block**	**Lot**	**Proposed (E) Designation**
A	5087	13 and 65	Any new residential and/or commercial development on Block 5087, Lot 13 and part of 65 must exclusively use natural gas as the type of fuel for HVAC systems, and ensure that the heating, ventilating and air conditioning stack(s) is located at least 120 feet above grade and at least 14 feet away from the easterly lot line facing E. 241st Street and at least 52 feet away from the southerly lot line facing Furman Avenue, to avoid any potential significant air quality impacts.
B	5087	14 and 65	Any new residential and/or commercial development on Block 5087, Lot 14 and part of 65 must exclusively use natural gas as the type of fuel for HVAC systems, and ensure that the heating, ventilating and air conditioning stack(s) is located at the highest tier or at least 118 feet above grade and at least 30 feet away from the westerly lot line facing E. 240st Street, to avoid any potential significant air quality impacts.

Potential Development Site	Block	Lot	Proposed (E) Designation
C	5087	20 and 65	Any new residential and/or commercial development on Block 5087, Lot 20 and part of 65 must exclusively use natural gas as the type of fuel for HVAC systems, and ensure that the heating, ventilating and air conditioning stack(s) is located at the highest tier or at least 118 feet above grade and at least 30 feet away from the northerly lot line facing White Plains Road, to avoid any potential significant air quality impacts.
D	5087	53 and 54	Any new residential and/or commercial development on Block 5087, Lot 53 and 54 must exclusively use natural gas as the type of fuel for HVAC systems, and ensure that the heating, ventilating and air conditioning stack(s) is located at least 121 feet above grade and at least 30 feet away from the easterly lot line facing E. 241st Street and at least 20 feet away from the northerly lot line facing White Plains Road, to avoid any potential significant air quality impacts.
E	5087	55 and 58	Any new residential and/or commercial development on Block 5087, Lot 55 and 58 must exclusively use natural gas as the type of fuel for HVAC systems, and ensure that the heating, ventilating and air conditioning stack(s) is located at least 135 feet above grade and at least 40 feet away from the easterly lot line facing E. 241st Street and at least 40 feet away from the southerly lot line facing Furman Avenue, to avoid any potential significant air quality impacts.

Noise

Block 5087, Lots 1, 9, and 12 (Projected Development Site 1)
To ensure an acceptable interior noise environment, the building façade(s) or future development at Projected Development Site 1 must provide minimum composite building façade attenuation of 41 dBA along the west façade, 31 dBA along the north façade, and 33 dBA along the south façade, to ensure an interior L10 noise level not greater than 45 dBA for residential uses or not greater than 50 dBA for commercial uses. To maintain a closed-window condition in these areas, an alternate means of ventilation that brings outside air into the buildings without degrading the acoustical performance of the building façade(s) must also be provided.

Block 5087, Lots 40, 48, 53, 54, 55, and 58 (Projected Development Sites 4 & 5; Potential Development Sites D & E)
To ensure an acceptable interior noise environment, the building façade(s) or future development at Projected Development Sites 4 and 5, and Potential Development Site D and E must provide minimum composite building façade attenuation of 41 dBA along the west façade and 33 dBA along all other facades, to ensure an interior L10 noise level not greater than 45 dBA for residential uses or not greater than 50 dBA for commercial uses. To maintain a closed-window condition in these areas, an alternate means of ventilation that brings outside air into the buildings without degrading the acoustical performance of the building façade(s) must also be provided.

Block 5087, Lots 13, 14, 16, 18, 20 and 65 (Projected Development Site 2; Potential Development Sites A, B, and C)
To ensure an acceptable interior noise environment, the building façade(s) or future development at Projected Development Site 2 and Potential Development Sites A, B, and C must provide

minimum composite building façade attenuation of 33 dBA along the east façade, to ensure an interior L10 noise level not greater than 45 dBA for residential uses or not greater than 50 dBA for commercial uses. To maintain a closed-window condition in these areas, an alternate means of ventilation that brings outside air into the buildings without degrading the acoustical performance of the building façade(s) must also be provided.

Block 5087, Lots 22, 24, 28, 33, and 128 (Projected Development Site 3)
To ensure an acceptable interior noise environment, the building façade(s) or future development at Projected Development Site 3 must provide minimum composite building façade attenuation of 38 dBA along the south façade and 33 dBA along the west façade, to ensure an interior L10 noise level not greater than 45 dBA for residential uses or not greater than 50 dBA for commercial uses. To maintain a closed-window condition in these areas, an alternate means of ventilation that brings outside air into the buildings without degrading the acoustical performance of the building façade(s) must also be provided.

PART II: ENVIRONMENTAL (CEQR) ANALYSIS

ATTACHMENT B. CEQR ANALYSIS FRAMEWORK

INTRODUCTION

The Proposed Action requires discretionary approval by the City Planning Commission (CPC) and is subject to City Environmental Quality Review (CEQR)—New York City's process for implementing the New York State Environmental Review Act (SEQRA), by which City agencies review the proposed discretionary actions to identify and disclose the potential effects those actions may have on the environment. This Environmental Assessment Statement (EAS) has been prepared pursuant to Mayoral Executive Order No. 91 of 1977, as amended, the CEQR Rules of Procedure found at Title 62 RCNY Chapter 5 (CEQR), and the implementing regulations for SEQRA found at 6 NYCRR Part 617. This EAS will inform the New York City Department of City Planning (DCP), acting as lead agency on behalf of the CPC, in making the determination whether the Proposed Action would result in significant adverse environmental impacts and require further environmental quality review.

ANALYSIS FRAMEWORK

The framework for the EAS analysis is based on the guidelines established in the March 2014 Edition (Revised April 27, 2016) of the CEQR Technical Manual (*CEQR Technical Manual*). For each technical area, the *CEQR Technical Manual* defines thresholds that, if met or exceeded, typically require a detailed analysis. Accordingly, preliminary screening analyses were conducted for all applicable CEQR technical areas to determine if detailed analyses would be necessary. The following sections of this EAS report provide additional analyses and information for technical categories listed in Part II of the EAS Form for which CEQR thresholds were determined to have been met or exceeded, or if supplemental information is needed to complete the analysis. In order to assess the potential effects of the Proposed Action, a Reasonable Worst Case Development Scenario (RWCDS) was developed for both the Future Without the Proposed Action (the "No-Action Condition") and the Future With the Proposed Action (the "With-Action Condition)" for a 10-year period ("Build Year 2026"). The incremental difference between the No-Action and With-Action conditions serves as the basis for assessing the potential environmental impacts of the Proposed Action.

Development Site Criteria

Standard methodologies have been applied following the *CEQR Technical Manual* guidelines employing reasonable assumptions to identify the amount and location of future development within the Directly Affected Area (Block 5087), as described below. In projecting the amount and location of new development, several factors were considered, such as known development proposals, past and current development trends, and the soft site criteria, as described below. To produce a reasonable, conservative estimate of future growth, soft sites have been divided into two categories: Projected Development Sites and Potential Development Sites. Based on the criteria described below, a total of 10 development sites (5 Projected Development Sites and 5 Potential Development Sites) have been identified in the Directly Affected Area (Figure 8).

EAST 241ST STREET REZONING

FIGURE 8
DEVELOPMENT SITES



Map Reference: NYC Department of City Planning MapPLUTO, DOITT Shapefiles

Projected Development Sites

Potential Development Sites

1 **Tax Lot**

WAKEFIELD, BRONX, NY

LANGAN

Projected Development Sites

Projected Development Sites are identified as:

- Lots more likely to be developed within the 10-year analysis period (for Build Year 2026) as a result of the Proposed Action that would facilitate residential development, which is currently not permitted under the existing M1-1 zoning district;
- Sites that are currently underutilized, defined as a vacant or parking lot or a lot constructed to less than or equal to 50 percent of the maximum FAR under the Proposed Action; and
- Lots under common ownership.

As shown in Table B-1 and Figure 8, the five ***Projected Development Sites*** include the Proposed Development Site (Lots 1, 9 and 12) and nine additional tax lots (Lots 16, 18, 22, 24, 28, 33, 40, 48, and 128). For the purposes of a conservative assessment, commercial uses are assumed to be occupied. It is assumed that assemblages of smaller lots would take place by the 2026 analysis year because development on larger lots would qualify a site for MIH, which would facilitate the additional FAR available per the MIH program.

Projected Development Site #1:

Projected Development Site #1 is the Proposed Development Site, and comprises Lots 1, 9, and 12. The Applicant owns all three lots.

- Lot 1 has a lot area of 24,061 square feet and is currently vacant.
- Lot 9 has a lot area of 2,628 square feet and is improved with a two-story, multi-family residential building with 2,310 square feet of floor area (0.88 FAR) and four dwelling units.
- Lot 12 has a lot area of 2,310 square feet and is improved with a two-story, multi-family residential building with 3,135 square feet of floor area (1.36 FAR) and three dwelling units.

Projected Development Site #2:

Projected Development Site #2 comprises Lots 16 and 18. According to NYC Open Accessible Space Information System (OASIS), a single owner controls both properties. Both lots are constructed to less than 50 percent of the maximum FAR under the Proposed Action.

- Lot 16 has a lot area of 3,354 square feet and is improved with a two-story, two-family residential building with 1,512 square feet of floor area (0.45 FAR).
- Lot 18 has a lot area of 3,268 square feet and is improved with a one-story transportation/utility building with 1,500 square feet of floor area (0.46 FAR).

Projected Development Site #3:

Projected Development Site #3 comprises Lots 22, 24, 28, 33, and 128. A single owner controls Lots 22, 24, and 128. Lot 128 is vacant and is used for parking in conjunction with Lot 28. All lots are constructed to less than 50 percent of the maximum FAR under the Proposed Action.

- Lot 22 has a lot area of 4,305 square feet and is improved with a one-story transportation/utility building with 3,425 square feet of floor area (0.8 FAR).
- Lot 24 has a lot area of 6,460 square feet and is improved with a two-story transportation/utility building with 6,480 square feet of floor area (1.0 FAR)
- Lot 28 has a lot area of 2,755 square feet and is improved with a two-story, two-family residential building with 2,520 square feet of floor area (0.91 FAR).
- Lot 33 has a lot area of 3,417 square feet and is improved with a one-story commercial building with 3,516 square feet of floor area (1.03 FAR).
- Lot 128 has a lot area of 1,398 square feet, and is used for parking in conjunction with Lot 28.

Projected Development Site #4:

Projected Development Site #4 comprises Lot 40 and has a lot area of 15,387 square feet—the largest lot on Block 5087. Lot 40 is improved with a one-story commercial building with 1,848 square feet of floor area (0.12 FAR). The lot is constructed to less than 50 percent of the maximum FAR under the Proposed Action.

Projected Development Site #5:

Projected Development Site #5 comprises Lot 48 and has a lot area of 8,428 square feet. Lot 48 is improved with a one-story commercial building with 5,860 square feet of floor area (0.7 FAR). The lot is constructed to less than 50 percent of the maximum FAR under the Proposed Action.

Table B-1: Projected Development Sites

Site	Block	Lot	Lot Area (sf)	Existing Land Use	Use Group (UG)	Total Gross Floor Area (gsf)	Dwelling Units (DU)
1	5087	1	24,061	Vacant	N/A	24,061	0
	5087	12	2,310	One- & Two-Family Residence	UG 2	3,135	3
	5087	9	2,628	One- & Two-Family Residence	UG 2	2,310	4
2	5087	16	3,354	One- & Two-Family Residence	UG 2	1,512	2
		18	3,268	Transportation	UG 8 & 16	1,500	0
3	5087	22	4,305	Industrial	UG 16	3,425	0
		24	6,460	Industrial	UG 16	6,480	0
		28	2,755	One- & Two-Family Residence	UG 2	2,520	2
		33	3,417	Commercial	UG 9	3,516	0
		128	1,398	Parking	N/A	0	0
4	5087	40	15,387	Commercial	UG 16	1,848	0
5	5087	48	8,428	Community Facility	UG 4	5,860	0
TOTAL			**77,771 sf**			**56,167 gsf**	**11**

Potential Development Sites

Potential Development Sites are those considered less likely to be developed within the 10-year analysis period (for Build Year 2026). Potential Development Sites were identified based on the following criteria:

- Lots whose shapes prove it difficult to be developed in order to take full advantage of the proposed permissible bulk modification;
- Lots that are smaller than 5,000 sf in size;
- Lot assemblages that include two or more lots and are considered more difficult to assemble by the analysis year; and
- Active businesses, which may provide unique services or are prominent, and successful neighborhood businesses or organizations unlikely to move.

As shown in Table B-2 and Figure 8, the five Potential Development Sites include a total of nine tax lots (Lots 13, 14, 20, 53, 54, 55, 58, and 65).[6] Occupancy of dwelling units as well as existing ground floor businesses is unknown; however, for the purposes of a conservative assessment, these sites are assumed to be occupied. Because development of the five Potential Development Sites is less likely to occur by Build Year 2026, they are excluded from the total amount of development expected to occur in the With-Action Condition.

[6] Portions of Lot 65 are owned by several adjacent property owners. Therefore, for purposes of this environmental review, these portions of Lot 65 are assigned to the respective adjacent lot with which they have common ownership, as follows: (i): an approximately 307-sf p/o Lot 65 has common ownership with Lot 13, and is assigned to Potential Development Site A (Lots 12, 13 and p/o 65); (ii) an approximately 3,211-sf p/o Lot 65 has common ownership with Lot 20, and is assigned to Potential Development Site C (Lot 20 and p/o Lot 65); (iii) ownership of the remaining approximately 1,080-sf p/o Lot 65 (adjacent to Lot 14) is unknown; this p/o Lot 65 is assigned to Potential Development B (Lot 14 and p/o Lot 65).

Potential Development Site A

Potential Development Site A comprises Lot 13 and p/o Lot 65.

- Lot 13 has a lot area of 1,694 square feet and is improved with a two-story, two-family residential building with 2,749 square feet of floor area (1.62 FAR).
- P/o Lot 65 (307 square feet) is a vacant alleyway.

Potential Development Site B

- Lot 14 has a lot area of 3,120 square feet and is improved with a two-story, multi-family residential building with 4,433 square feet of floor area (1.42 FAR) and three dwelling units.
- P/o Lot 65 (1,080 square feet) is a vacant alleyway.

Potential Development Site C

- Lot 20 has a lot area of 3,404 square feet and is improved with a two-story, multi-family residential building with 3,560 square feet of floor area (1.05 FAR) and three dwelling units.
- P/o Lot 65 (3,211 square feet) is a vacant alleyway.

Potential Development Site D

- Lot 53 has a lot area of 1,514 square feet and is improved with a two-story, mixed-use building with ground floor commercial use and one residential dwelling unit on the second floor, with 1,440 square feet of floor area (0.95 FAR).
- Lot 54 has a lot area of 2,160 square feet and is improved with a two-story commercial building with 1,904 square feet of floor area (0.88 FAR).

Potential Development Site E

- Lot 55 has a lot area of 4,388 square feet and is improved with a three-story, mixed-use building with ground floor commercial use and four residential dwelling units on the second and third floors, with 7,883 square feet of floor area (1.8 FAR).
- Lot 58 has a lot area of 2,511 square feet and is improved with a three-story, mixed-use building with ground floor commercial use and five residential dwelling units on the second and third floors, with 3,588 square feet of floor area (1.43 FAR).

Table B-2: Potential Development Sites

Site	Block	Lot	Lot Area (sf)	Existing Land Use	Use Group (UG)	Total Gross Floor Area (gsf)	Dwelling Units (DU)
A	5087	13	1,694	One- & Two-Family Residence	UG 2	2,749	2
		p/o 65	307	Vacant Land	N/A	0	0
B	5087	14	3,120	Multifamily Residence (Walkup)	UG 2	4,433	3
		p/o 65	1,080	Vacant Land	N/A	0	0
C	5087	20	3,404	Multifamily Residence (Walkup)	UG 2	3,560	3
		p/o 65	3,211	Vacant Land	N/A	0	0
D	5087	53	1,514	Mixed Residential & Commercial	UG 2 & 6	720 (Commercial); 720 (Residential)	1
		54	2,160	Commercial	UG 6	1,904	0
E	5087	55	4,388	Mixed Residential & Commercial	Use Group 2 & 6	4,281 (Commercial); 3,602 (Residential)	4
		58	2,511	Mixed Residential & Commercial	Use Group 2 & 6	900 (Commercial); 2,688 (Residential)	5
TOTAL			**23,389 sf**			**25,557gsf**	**18**

Development Scenario Assumptions for the Projected Development Sites

Building Height Factor

For purposes of a conservative analysis, development on the Projected Development Sites in the With-Action Condition would utilize the maximum permitted building height of 115 feet under the proposed R7D/C2-4 zoning district and ZQA program.

Dwelling Unit Factor

The number of projected dwelling units is determined by dividing the total amount of residential gross square footage by 1,000 and rounding to the nearest whole number.[7]

In total, the With-Action Condition would include approximately 416 dwelling units—186 dwelling units on the Proposed Development Site and 230 dwelling units on Projected Development Sites 2, 3, 4, and 5.

Affordable Housing Assumptions

Under the Proposed Action, the Proposed Development Site would be a designated MIH area, and the Proposed Development would include permanently affordable housing pursuant to the Option 2 of the MIH program. Under MIH Option 2, at least 30 percent of residential floor area must be permanently allocated for affordable housing units for families with incomes averaging at 80

[7] Proposed Development Site (Projected Development Site 1) maintains an average unit size of 828 gsf per unit, based on architectural design and mix of dwelling unit types.

percent of the Area Median Income (AMI) ($62,150 per year for a family of three). No income band shall exceed 130 percent AMI.[8] In the With-Action Condition, 100 percent of the proposed residential floor area (186 dwelling units) in the Proposed Development would be allocated as permanently affordable for low-, moderate-, and middle-income families. Approximately 50 percent of dwelling units (93 dwelling units) would be allocated for families with incomes at or below 60 percent AMI, and approximately 50 percent of dwelling units (93 dwelling units) would be allocated for families with incomes between 80 percent and 100 percent AMI.[9]

In addition, this analysis assumes that development anticipated on Projected Development Sites 2, 3, 4, and 5 would also utilize Option 2 of the MIH program, resulting in 30 percent of the projected residential floor area to be affordable for families with incomes averaging at 80 percent AMI (69 affordable dwelling units).

In total, the With-Action Condition would include approximately 416 dwelling units, 255 of which would be permanently affordable pursuant to the MIH program.

Commercial Use Factor

While the proposed C2-4 commercial overlay would permit a maximum commercial FAR of 2.0, a commercial FAR of 1.0 is assumed for Projected Development Sites 2, 3, 4, and 5. This assumption is based on the existing commercial character of the surrounding area, which is defined by ground floor retail and commercial/office use. In addition, pursuant to ZR Section (§) 32-421, for buildings with residential use on or above the second floor, commercial use is limited to the ground floor.

In total, the With-Action Condition would include approximately 73,344 gsf of commercial space comprising 24,972 gsf on the Proposed Development Site (Projected Development Sites 1) and 48,372 gsf on Projected Development Sites 2, 3, 4, and 5.

Community Facility Use Factor

Although the proposed R7D zoning district would permit community facility use at a maximum FAR of 4.2, the Proposed Development does not include any community facility space. Furthermore, it is unlikely the community facility FAR would be maximized on any of the Projected Development Sites. Based on this assumption, under the With-Action Condition, only Projected Development Sites with areas greater than 10,000 sf are projected to include community facility space. These include Projected Development Site 3 and Projected Development Site 4.[10] For these two sites, a community facility FAR of 0.50 is assumed.

In total, the With-Action Condition would include approximately 16,862 gsf of community facility space on Projected Development Sites 3 and 4.

[8] http://www1.nyc.gov/site/planning/plans/zqa/zoning-for-quality-and-affordability.page (Accessed February, 2017)
[9] The approximate residential unit breakdown is 40 studio apartments, 93 one-bedroom apartments, 29 two-bedroom apartments, and 31 three-bedroom apartments.
[10] Lots 22 and 24 are currently occupied by one building under single ownership.

Off-Street Parking Factor

The following accessory off-street parking regulations apply to the Directly Affected Area pursuant to the parking regulations under the proposed R7D zoning district:

1) Pursuant to ZR §25-23, where group parking facilities are provided for new residences, accessory off-street parking spaces shall be provided for at least 50 percent of the total dwelling units;

2) Pursuant to ZR §25-241, on zoning lots of 10,000 sf or less, the number of required accessory off-street parking spaces is reduced to 30 percent of total dwelling units; and

3) Pursuant to ZR §25-261, for developments in an R7D zoning district, the off-street parking requirement is waived for 15 or fewer required spaces.

In the With-Action Condition, the Directly Affected Area would be located in a Transit Zone; therefore, pursuant to ZR §25-251, no accessory off-street parking spaces shall be required for income-restricted housing units on both the Projected and Potential Development Sites in the With-Action Condition.

Based on the above requirements, off-street parking would be provided for 30 percent of the market-rate dwelling units on Projected Development Sites less than 10,000 sf in area (Projected Development Sites 2 and 5);[11] and for 50 percent of the total projected dwelling units on Projected Development Sites greater than 10,000 sf in area (Projected Development Sites 3 and 4). In addition, although there is no required parking for the Proposed Development on Project Development Site, 47 spaces are proposed for the commercial uses only.

Based on these assumptions, the With-Action Condition is anticipated to result in approximately 102 off-street parking spaces on the Projected Development Sites.[12]

Build Year

Demolition of the existing buildings on the Proposed Development Site is anticipated began in 2018. It is anticipated that construction of the Proposed Development would be complete by the end of 2019. The planning horizon for the additional four Projected Development Sites in the Directly Affected Area (Block 5087) is approximately eight years; therefore, for the purpose of this assessment, the Build Year is 2026.

[11] Projected Development Sites 2 and 5 have site area less than 10,000 sf, however off-street parking for these sites is waived pursuant to ZR §26-261 (Waiver of Requirements for Small Number of Space) for development in an R7D zoning district that require 15 or fewer spaces.

[12] 47 parking spaces on Site 1 (Proposed Development Site; Lots 1 and 9); parking waived for Site 2 (Lots 16 and 18); 30 parking spaces (50 percent) on Site 3 (Lots 22, 24, 28, 33, and 128); 25 parking spaces (50 percent) on Site 4 (Lot 40); and parking waived for Site 5 (Lot 48).

REASONABLE WORST CASE DEVELOPMENT SCENARIO

No-Action Condition

The Directly Affected Area is mapped with an M1-1 zoning district that permits manufacturing/industrial and commercial uses. Residential uses are not permitted in the M1-1. Currently, the Directly Affected Area contains local retail uses fronting White Plains Road; vacant land fronting East 241st Street; and industrial, transportation/utility, and residential (pre-existing non-conforming) uses fronting Furman Avenue.

In the future without the Proposed Action (No-Action Condition), it is assumed that the Directly Affected Area would remain the same as under existing conditions. Development trends in the area do not suggest that new manufacturing and industrial uses, or other uses permitted as-of-right in an M1-1 zoning district that would occupy the Directly Affected Area. Therefore, for purpose of this assessment, the No-Action Condition would be the same as the existing conditions.

As shown in Table B-3, the No-Action Condition would comprise approximately 32,106 gsf, including (i) approximately 9,477 gsf (11 dwelling units) of residential uses[13] on Projected Development Sites 1, 2, and 3; (ii) approximately 11,224 gsf of ground floor retail uses on Projected Development Sites 3, 4, and 5; (iii) approximately 11,405 gsf of light industrial uses on Projected Development Sites 2 and 3; (iv) and approximately 63 accessory off-street parking spaces.

With-Action Condition

Proposed Development Site (Projected Development Site 1)

In the future with the Proposed Action (With-Action Condition), the Proposed Development Site (Lots 1, 9 and 12) would be developed with a 9-story, approximately 207,925-gsf, mixed-use building. The Proposed Development would maximize the permitted FAR under the proposed R7D/C2-4 zoning district, and would include approximately 159,875 gsf of residential space (186 permanently affordable dwelling units); approximately 24,972 gsf of ground floor local retail space; and approximately 47 below-grade parking spaces.[14] The Proposed Development would have a maximum building height of approximately 90 feet; however, for conservative analysis purposes, the With-Action Condition analyzes a building on the Proposed Development Site with a maximum building height of 115 feet pursuant to the R7D/C2-4 and ZQA provisions.

Projected Development Sites

Future development anticipated on Projected Development Sites 2, 3, 4, and 5 in With-Action Condition maximizes the permitted building height and FAR under the proposed R7D/C2-4 zoning district, the MIH program, and ZQA provisions. The R7D, with MIH, would allow for residential use at a maximum FAR of 5.6; the proposed C2-4 commercial overlay would allow for commercial use at a maximum FAR of 2.0, limited to the first two floors. The ZQA zoning provisions (ZR §23-664) in the R7D zoning district would allow for a minimum base height of 60 feet and a maximum base

[13] The residential assumption for the No-Action Condition is the same as under existing conditions due to the pre-existing nonconforming nature of the existing residential buildings on Block 5087.
[14] Average residential unit size is 830 gsf.

height of 95 feet, after which the building must set back to a depth of 10 feet on a wide street and 15 feet on a narrow street before rising to its maximum building height of 115 feet (or 11 stories). The required parking for residential uses in the R7D zoning district is a minimum of 50 percent of the dwelling units, which is waived if 15 or fewer spaces are required; the parking requirement for income restricted units is 15 percent of the number of income restricted units.

Projected Development Site 2 (Block 5087, Lots 16 and 18):

In the With-Action Condition, Projected Development Site 2 is anticipated to be developed with an approximately 40,133-gsf, mixed-use building. The development on Projected Development Site 2 would include approximately 33,911 gsf of residential space (34 total dwelling units, approximately 10 of which would be designated affordable pursuant to Option 2 of MIH); and approximately 6,222 gsf of ground floor retail space.

Projected Development Site 3 (Block 5087, Lots 22, 24, 28, 33, and 128):

In the With-Action Condition, Projected Development Site 3 is anticipated to be developed with an approximately 123,534-gsf, mixed-use building. The development on Projected Development Site 3 would include approximately 83,619 gsf of residential space (84 total dwelling units, approximately 25 of which would be designated affordable pursuant to Option 2 of MIH); approximately 18,335 gsf of ground floor retail space; and approximately 9,168 gsf of community facility space.

Projected Development Site 4 (Block 5087, Lot 40):

In the With-Action Condition, Projected Development Site 4 is anticipated to be developed with an approximately 103,955-gsf, mixed-use building. The development on Projected Development Site 4 would include approximately 70,174 gsf of residential space (70 total dwelling units, approximately 21 of which would be designated affordable pursuant to Option 2 of MIH); approximately 15,387 gsf of ground floor retail space; and approximately 7,694 gsf of community facility space.

Projected Development Site 5 (Block 5087, Lot 48):

In the With-Action Condition, Projected Development Site 5 is anticipated to be developed with an approximately 51,079-gsf, mixed-use building. The development on Projected Development Site 5 would include approximately 42,651 gsf of residential space (43 total dwelling units, approximately 13 of which would be designated affordable pursuant to Option 2 of MIH); and approximately 8,428 gsf of ground floor retail space.

As shown in Table B-3, the With-Action Condition would include a total development of approximately 526,626 gsf, which would include approximately 390,230 gsf of residential space (approximately 416 dwelling units, of which 255 units would be permanently affordable); approximately 73,344 gsf of ground floor commercial space; approximately 16,862 gsf of community facility space on Projected Development Sites 3 and 4; and approximately 102 accessory off-street parking spaces on Projected Development Sites 1, 3, and 4.

Table B-3: Incremental Difference – No-Action and With-Action Conditions

Land Use	No-Action Condition (gsf)	With-Action Condition (gsf)	Increment (gsf)
Residential Use	9,477	390,230	380,753
Total Dwelling Units	11	416	405
Market Rate Dwelling Units	*11*	*161*	*150*
Affordable Dwelling Units	*0*	*255*	*255*
Commercial Use	11,224	73,344	62,120
Community Facility Use	0	16,862	16,862
Manufacturing Use	11,405	0	-11,405
Parking	0	46,190	46,190
Parking Spaces	*63*	*102*	*39*
Total	**32,106**	**526,626**	**494,520**

ATTACHMENT C. LAND USE, ZONING, AND PUBLIC POLICY

INTRODUCTION

According to *CEQR Technical Manual* guidelines, a land use analysis identifies the uses and development trends in the area that may be affected by a proposed project and determines whether that proposed project is compatible with those conditions or may affect them. Similarly, the analysis considers the project's compliance with, and effect on, the area's zoning and other applicable public policies.

An assessment of land use, zoning, and public policy is appropriate if an action would result in a significant change in land use or would substantially affect regulations or policies governing land use. Because the Proposed Action includes a zoning map and text amendments, an assessment of land use and zoning assessments is warranted. A public policy analysis was also conducted to determine the potential for the Proposed Action to alter or conflict with applicable public policies. The land use, zoning, and public policy analysis in this chapter (i) describes uses and development trends in the area that could potentially be affected by the Proposed Action; (ii) describes zoning and public policies that guide development; and (iii) determines whether the Proposed Action is compatible with those conditions and policies and whether it may adversely affect them.

METHODOLOGY

The analysis methodology is based on the guidelines in the *CEQR Technical Manual* and involves an assessment of the Proposed Action's consistency with land use patterns and development trends, zoning regulations, and applicable public policies.

The land use, zoning, and public policy analysis considers a 400-foot radius around the Directly Affected Area (the "Study Area"). Existing conditions were identified by field studies of the Study Area and research of available resources, including New York City Department of City Planning's (DCP) Land Use & CEQR Application Tracking System (LUCATS); the Primary Land Use Tax Lot Output (PLUTO™) data files; the New York City Mayor's Office of Environmental Coordination's (MOEC) CEQR Access; and the Bronx Community District 12 webpage. The ZR and DCP's web-based Zoning and Land Use Application (ZOLA) were used to identify and describe existing zoning districts in the Study Area and for the zoning evaluation of the No-Action and With-Action conditions. The analysis also examines available information regarding the ZQA and MIH programs, including material from the City's website and direct correspondence with DCP.[15] Relevant public policy documents were examined to assist in identifying and describing existing public policies that have the potential to affect the Study Area.

As described in Attachment B, "CEQR Analysis Framework," to produce a reasonable, conservative estimate of future growth, soft sites in the Directly Affected Area were divided into two categories: Projected Development Sites and Potential Development Sites. However, because development of

[15] NYC Department of City Planning Zoning for Quality and Affordability (ZQA) and Mandatory Inclusionary Housing (MIH) programs.
(http://www1.nyc.gov/site/planning/plans/zqa/zoning-for-quality-and-affordability.page;
http://www1.nyc.gov/site/planning/plans/mih/mandatory-inclusionary-housing.page; Accessed on June 10, 2016).

the nine Potential Development Sites is less likely to occur by 2026, they are excluded from the total amount of development expected to occur in With-Action Condition. Therefore, the incremental difference between the No-Action and With-Action conditions on the Projected Development Sites forms the basis of the impact category analyses in this chapter.

LAND USE

Existing Conditions

The Directly Affected Area consists of the entity of Block 5087 in the Wakefield neighborhood of the Bronx, Community District 12, and comprises 20 tax lots (Lots 1, 9, 12, 13, 14, 16, 18, 20, 22, 24, 28, 33, 40, 48, 53, 54, 55, 58, 65, and 128). The Directly Affected Area includes five Projected Development Sites (Projected Development Sites 1 through 5), including the Proposed Development Site (Projected Development Site 1), and is bounded by East 241st Street to the north; Furman Avenue to the east; East 240th Street to the south; and White Plains Road and the elevated No. 2 subway line to the west. The Proposed Development Site is on the northern part of the Directly Affected Area, generally bounded by White Plains Road to the west, East 241st Street to the north, Furman Avenue to the east, and a cluster of residential and commercial buildings to the south.

The Proposed Development Site (Projected Development Site 1) comprises Lots 1, 9 and 12. As shown in Figure 5, the entirety of Lot 1 is currently vacant. It was previously occupied by a one-story commercial building at the intersection of East 241st Street and Furman Avenue; an open parking lot along Furman Avenue; a one-story transportation/utility building along White Plains Road; and a gas station at the intersection of White Plains Road and East 241st Street. Part of Lot 1 was also previously designated as Garden Place alleyway. Lot 9 is occupied by a two-story, approximately 2,310-sf, multifamily residential building with four dwelling units, and Lot 12 is occupied a two-story, approximately 3,135-sf multifamily residential building with three dwelling units. All buildings on the Proposed Development Site are currently unoccupied and are anticipated to be demolished as a result of the development facilitated by the Proposed Action. Projected Development Site 2 (Lots 16 and 18) is improved with a two-family residential building and a transportation/utility building. Projected Development Site 3 (Lots 22, 24, 28, 33, and 128) is improved with two industrial buildings, a two-family residential building, a commercial building, and surface parking. Projected Development Site 4 (Lot 40) and Projected Development Site 5 (Lot 48) are improved with one-story commercial buildings.

As shown in Figure 5, land uses within a 400-foot radius of the Directly Affected Area (the "Study Area") include primarily commercial and residential uses. Commercial uses in the Study Area are found primarily along White Plains Road and East 241st Street. Residential uses (one- and two-family and multifamily) are found along Richardson Avenue and East 240th Street west of White Plains Road, and along St. Ouen Street and Cranford Avenue northeast of East 241st Street; there are also several mixed-use buildings along White Plains Road. The Study Area contains several transportation and utility uses, including the Metropolitan Transportation Authority (MTA) 239th Street Rail Yard direct east of the Directly Affected Area, as well auto shops, an air conditioning repair shop, and an electronic machine shop. Several industrial/manufacturing uses are found south of the Directly Affected Area. Community facility uses include El Shaddai World Harvest

Church on White Plains Road to the west across from the Directly Affected Area; Living Hope Church and Iglesia De Dios Pentecostal Church on White Plains Road on the block southwest of the Directly Affected Area; and Wakefield Seventh Day Adventist Church and senior citizen/disabled persons housing at Cranford Avenue to the northeast of the Directly Affected Area.

A Transit Zone is mapped directly west of the Directly Affected Area along White Plains Road. New York City's Transit Zones are designated areas where special lower accessory parking requirements apply for various types of affordable housing including income-restricted housing units.

There are currently no "No-Build" projects within the Directly Affected Area or within the Study Area.

No-Action Condition

In the No-Action Condition, it is assumed that land use conditions in the Directly Affected Area would remain the same as under existing conditions. Development trends in the neighborhood do not suggest that additional manufacturing uses, industrial uses, or other uses permitted under the existing M1-1 zoning would be developed within the Directly Affected Area.

With-Action Condition

In the With-Action Condition, the Directly Affected Area would be developed pursuant to the proposed R7D zoning district and C2-4 commercial overlay. The proposed R7D zoning district would permit residential and community facility uses, and the proposed C2-4 commercial overlay would permit commercial uses on the first two floors of a building with residential space on the upper floors.

The Proposed Action would facilitate the construction of new mixed-use development on Block 5087, including (i) approximately 390,230 gsf of residential space on Projected Development Sites 1 through 5 (approximately 416 dwelling units, 255 of which would be designated as permanently affordable); (ii) approximately 73,344 gsf of ground floor commercial space on Projected Development Sites 1 through 5; (iii) approximately 16,862 gsf of community facility space on Projected Development Sites 3 and 4; and (iv) approximately 46,190 gsf of parking on Projected Development Sites 1, 3, and 4 (approximately 102 spaces).

Assessment

The Proposed Action would facilitate construction of new mixed-use buildings within the Directly Affected Area that would include ground floor retail and upper floor residential uses. Because the Directly Affected Area is largely defined by existing commercial and pre-existing nonconforming residential uses, the Proposed Action would not directly displace these uses. The limited amount of industrial/manufacturing and transportation/utility uses in the Directed Affected Area could be redeveloped the highest and best use in the With Action Condition. Further, the pre-existing non-conforming residential uses would be made compliant. The

Moreover, the Proposed Action would not generate new land uses that would be incompatible with current land uses defining the Study Area. Rather, the new mixed-use development facilitate by the

Proposed Action would be compatible with the surrounding neighborhood's residential and commercial character.

Based on this information, Proposed Action would not result in any significant adverse land use impacts; therefore, no further analysis is warranted.

ZONING

Existing Conditions

As shown in Figure 6, zoning classifications within the Study Area include M1-1, R4A, R5, R6, and R6A zoning districts. The M1-1 zoning district extends west from the centerline of White Plains Road and includes the Directly Affected Area, the MTA rail yard to the east, and the blocks south of the Directly Affected Area. The R4A zoning district is generally mapped on the western portion of the Study Area south of East 241st Street. The R5 zoning district is mapped along East 241st Street to the west of White Plains Road and on the block to northeast of the Directly Affected Area. The R6 and R6A zoning districts are mapped along White Plains Road to the south and north of East 241st Street, respectively. A C2-2 commercial overlay is mapped within the R6 zoning district to a depth of approximately 100 feet on blocks to the west of White Plains Road, south of East 241st Street, and on either side of White Plains Road north of East 241st Street.

The M1-1 zoning district permits development at a maximum FAR of 2.4 for community facility uses (Use Group 4).[16] Light industrial and commercial uses are permitted at a maximum FAR of 1.0. Residential uses are not permitted in an M1-1 zoning district. The R4A zoning district permits development at a maximum FAR of 0.5 for residential uses in one and two-family detached residences, and community facility uses are permitted at a maximum FAR of 2.0. The R4A zoning district is a contextual district that limits building height to a maximum of 35 feet and has strict yard requirements. The R5 zoning district permits development at a maximum FAR of 2.0 for community facility uses, and residential uses are permitted a maximum FAR of 1.25. The R5 zoning district mapped in the Study Area provides a transition between the lower density neighborhood within the R4A zoning district and the higher density neighborhood within the R6 and R6A zoning districts. The R5 zoning district limits building height to a maximum of 40 feet and requires front, rear and side yards. The R6 zoning district permits development at a maximum FAR of 4.8 for community facility uses, and residential uses are permitted at a maximum FAR of 2.43 under Height Factor regulations and a maximum FAR of 3.0 under the optional Quality Housing regulations. Height Factor regulations for R6 districts typically facilitate lower apartment building heights on smaller zoning lots and, on larger lots, taller buildings with less lot coverage. As an alternative, the optional Quality Housing regulations allow lower building heights with greater lot coverage. The Quality Housing option under the R6 zoning district permits a maximum building height of 70 feet and a building base height between 40 and 60 feet. The R6A zoning district permits development at a maximum FAR of 6.5 for community facility uses, and residential uses are permitted at a maximum FAR of 3.0. The R6A zoning district is a contextual district that permits a maximum building height of 70 feet and a building base height between 40 and 60 feet. Commercial uses are not permitted in R4A, R5, R6, and R6A zoning districts, unless mapped with a commercial overlay.

[16] Community facility uses include Use Group 4, which includes houses of worship, community centers, hospitals, ambulatory health care facilities, and non-profit facilities without sleeping accommodations.

When mapped in the R6 zoning district, the C2-2 commercial overlay permits commercial uses at a maximum FAR of 2.0, limited to the first two floors. Residential uses must be located above the commercial uses.

No-Action Condition

In the No-Action Condition, the Directly Affected Area would not be rezoned and the M1-1 district would remain in place. Residential uses would not be permitted as-of-right and the existing residential uses in the Directly Affected Area would remain legally non-conforming. Development trends in the area indicate that new manufacturing and industrial uses, or other uses permitted by the M1-1 zoning designation, would not occupy the Directly Affected Area. Therefore, because no development is anticipated to occur in the Directly Affected Area absent the Proposed Action, it is expected that the No-Action Condition would be same as under existing conditions.

With-Action Condition

In the With-Action Condition, the Projected Development Sites in the Directly Affected Area would be developed pursuant to the proposed R7D/C2-4 commercial overlay, the ZQA provisions, and the MIH program. The Proposed Action would result in a total of approximately 526,626 gsf of mixed-use buildings which would include residential space, ground floor commercial and community facility space, and accessory parking.

The proposed R7D zoning district would permit development at a maximum FAR of 5.6 for residential uses within an MIH area. Community facility uses would be permitted at a maximum FAR of 4.2. The C2-2 commercial overlay would permit ground floor commercial uses at a maximum FAR of 2.0. The proposed R7D zoning district is a contextual district that permits a maximum building height of 100 feet and a building base height between 60 feet and 85 feet. The bulk and height permitted under the proposed R7D zoning district is comparable to the adjacent residential (R5, R6, and R6A) districts within the Study Area. Further, the higher residential FAR permitted under the proposed R7D zoning district, in conjunction with the MIH program, would facilitate permanent affordable housing on the Projected Development Sites. The proposed C2-4 commercial overlay would activate White Plains Road with ground floor commercial uses and would be consistent with the zoning along the west side of White Plains Road, as well as White Plains Road to the north of the Directly Affected Area.

In accordance with the proposed R7D/C2-4 and ZQA provisions, and the MIH program, development in the With-Action Condition would include approximately 390,230 gsf of residential space on Projected Development Sites 1 through 5, comprising approximately 416 dwelling units, of which 255 dwelling units would be permanently affordable; approximately 73,344 gsf of ground floor retail space on Projected Development Sites 1 through 5; approximately 16,862 gsf of community facility space on Projected Development Sites 3 and 4; and approximately 46,190 gsf of parking with 102 spaces on Projected Development Sites 1, 3, and 4.

Assessment

The Proposed Action would result rezone the Directly Affected Area from an M1-1 to an R7D zoning district with a C2-2 commercial overlay, which would permit residential use in the Directly Affected

Area that is currently not permitted under the existing M1-1 zoning regulations. As discussed above, the proposed R7D/C2-2 zoning district would be consistent with the existing residential zoning districts within the Study Area. The higher-density, mixed-use development facilitated by the Proposed Action on the Projected Development Sites would be consistent in terms of bulk and use with the existing buildings located in the adjacent areas mapped with R5 and R6 zoning districts.

Based on this information, the Proposed Action is not anticipated to result in any potentially significant adverse impacts related to zoning; therefore, no further analysis is warranted.

PUBLIC POLICY

According to the *CEQR Technical Manual*, a proposed project located within areas governed by public policies controlling land use, or that has the potential to substantially affect land use regulation or policy controlling land use, requires an analysis of public policy. A preliminary assessment of public policy identifies and describes relevant public policies, including formal plans or published reports, which pertain to the Study Area. If the proposed action could potentially alter or conflict with identified policies, a detailed assessment should be conducted; otherwise, no further analysis of public policy is necessary.

Public policies applicable to portions of the Study Area include *One New York: The Plan for a Strong and Just City* (OneNYC) and *Housing New York: A Five-Borough, Five-Year Plan* (*Housing New York*).

OneNYC

OneNYC, originally released as PlaNYC in 2007, is a policy document designed to address New York City's long-term challenges, including a projected population increase to 9 million residents by 2040, changing climate conditions, an evolving economy, and aging infrastructure. OneNYC builds upon PlaNYC and focuses on four guiding principles: growth, equity, sustainability, and resiliency.

The Proposed Action is consistent with several of OneNYC's initiatives and supports goals related to growth. These goals fall under Vision 1, which aims to create the world's most dynamic urban economy where families, businesses, and neighborhoods thrive. Under Vision 1, the development facilitated by the Proposed Action would support the goals of "Housing" and "Thriving Neighborhoods."

Housing

Goal: New Yorkers will have access to affordable, high-quality housing coupled with robust infrastructure and neighborhood services.

To ensure that all New Yorkers have access to housing they can afford, OneNYC's goal for housing is to produce and preserve affordable units, increase the overall supply of all types of new housing, and coordinate with regional partners to stimulate production of more housing to meet demand.[17] The Proposed Action would support the following initiatives and sub-initiatives under this goal:

[17] *OneNYC* (http://www1.nyc.gov/html/onenyc/visions/thriving/goal-3.html)

- Creating and preserving 200,000 affordable housing units over ten years to alleviate New Yorker's rent burden and meet the needs of a diverse population; and supporting efforts by the private market to produce 160,000 additional new units of housing over ten years to accommodate a growing population;

- Establishing a MIH program to promote economic diversity and affordable-housing development; and

- Pursuing neighborhood planning initiatives that expand opportunities for mixed-use development, especially the attraction of retail and services to underserved neighborhoods.

The Proposed Action would facilitate the development of approximately 416 dwelling units on five Projected Development Sites, of which 255 dwelling units would be permanently affordable. By facilitating the creation of permanent affordable housing, the Proposed Action would support a diverse residential population and would create additional housing options within commuting distance to Manhattan, which would help strengthen the City's economy. Moreover, the Proposed Action would expand opportunities for mixed-use development by facilitating approximately 73,344 gsf of ground floor retail space in the Directly Affected Area.

Based on this information, the Proposed Action is consistent with the policies of OneNYC.

Thriving Neighborhoods

Goal: New York City's neighborhoods will continue to thrive and be well-served.

OneNYC identifies three core principles for guiding the City's neighborhood planning efforts: (i) supporting vibrant, mixed-use communities that align transit, housing, and jobs, and offer residents access to essential retail and services; (ii) proactively planning for current and future growth; and (iii) engaging New Yorkers in the planning process.[18] In particular, OneNYC outlines how neighborhood planning, including zoning changes, has the potential to create a wide range of opportunities for mixed-use neighborhoods.

By rezoning the Directly Affected Area from an M1-1 to an R7D zoning district with a C2-4 commercial overlay, the Proposed Action would facilitate the redevelopment of the Proposed Development Site, which is largely vacant, into a mixed-use, transit-oriented development that would include commercial uses at the street level. The Proposed Development would include approximately 159,875 gsf of residential use (186 dwelling units, all of which would be permanently affordable); 24,972 gsf of ground floor retail space; and 23,078 gsf of below-grade parking (47 spaces). The new residential and commercial zoning under the Proposed Action is designed to provide new affordable housing opportunities in the Wakefield neighborhood as well as add new commercial and community facility uses to activate the Directly Affected Area at the street level.

Based on this information, the Proposed Action is consistent with the policies of OneNYC.

[18] *OneNYC* (http://www1.nyc.gov/html/onenyc/visions/thriving/goal-4.html) (Accessed 25 February 2016)

Housing New York

Housing New York is the City's comprehensive housing development policy that seeks, as a primary goal, to build of preserve 200,000 units of high-quality affordable housing over the next decade. *Housing New York* was developed in conjunction with the New York City Department of Housing and Preservation (HPD) to create housing opportunities for New Yorkers with a range of incomes, while fostering vibrant and diverse neighborhoods. Framed by the policy goals and objectives in *Housing New York*, the City Council adopted an amendment to the ZR to establish the MIH program on March 22, 2016 that requires, through zoning actions, a share of new housing to be permanently affordable.

The primary components of *Housing New York* include:

- Mandatory affordable housing: production of affordable housing would be a condition of residential development when developers build in a designated MIH area, whether rezoned as part of a City neighborhood plan or a private rezoning application; and

- Affordable housing would be permanent: there would be no expiration to the affordability requirement of apartments generated through MIH, making them a long-term, stable reservoir of affordable housing.

The Proposed Action would support the policies and goals of *Housing New York*. Under the With-Action Condition, development on the Projected Development Sites would provide approximately 416 new residential dwelling units, of which 255 dwelling units would be permanently affordable under the MIH program. The Proposed Action would thereby provide the Wakefield neighborhood with new mixed-income permanently affordable housing, supporting the City's effort to increase the overall supply of affordable housing.

Based on this information, the Proposed Action would be consistent with the goals and objectives of *Housing New York*.

Vision Zero

New York City's Vision Zero seeks to eliminate all traffic-related fatalities and severe injuries. Beginning in 2014, the New York City Department of Transportation (DOT), in conjunction with the New York City Police Department (NYPD), created a study for each of the five boroughs that analyzed their unique conditions and recommends actions to address each borough's specific challenges to pedestrian safety.[19]

The *Vision Zero Bronx Pedestrian Safety Action Plan* pinpointed the conditions and characteristics of the Bronx's pedestrian fatalities and severe injuries; it also identified corridors, intersections, and areas that disproportionately account for the Bronx's pedestrian fatalities and severe injuries and strategically prioritizes them for safety interventions. Vision Zero identifies new housing developments on vacant and underused sites as an opportunity for the City to develop streets that are safer than existing conditions. The Proposed Development Site is largely vacant and is located in

[19] *Vision Zero Action Plan*, City of New York, Office of the Mayor, 2014.

a Vision Zero Priority Corridor; additional underutilized sites have also been identified in the RWCDS as Projected and Potential development sites. According to Vision Zero, development at these locations presents an opportunity for the City to develop streets that are safer than existing conditions.[20]

Based on this information, the Proposed Action would be consistent with the goals and objectives outlined by Vision Zero.

New York City Food Retail Expansion to Support Health Program (FRESH Program)

The New York City Food Retail Expansion to Support Health Program (FRESH Program) provides zoning and financial incentives to promote the establishment and retention of neighborhood grocery stores in underserved communities throughout the five boroughs. The Directly Affected Area is located within a FRESH-designated discretionary tax incentive area.

The FRESH program is open to grocery store operators renovating existing retail space or developers seeking to construct or renovate retail space that will be leased by a full-line grocery store operator. Financial incentives available under the FRESH program include real estate tax reductions, sales tax exemption, and mortgage recording tax deferral.[21] Stores that benefit from the program must be located in an eligible area and must provide:

- A minimum of 6,000 sf of retail space for a general line of food and nonfood grocery products intended for home preparation, consumption and utilization;
- At least 50 percent of a general line of food products intended for home preparation, consumption and utilization;
- At least 30 percent of retail space for perishable goods that include dairy, fresh produce, fresh meats, poultry, fish and frozen foods; and
- At least 500 sf of retail space for fresh produce.

As discussed above, the Proposed Action would establish a C2-4 commercial overlay in the Directly Affected Area within which FRESH supermarkets could be developed as-of-right. Under the Proposed Action, the Directly Affected Area would be located in an area where discretionary tax incentives would be available. Therefore, the development under the With-Action Condition could utilize such incentives.

Based on this information, the Proposed Action would be consistent with and promote the goals and principles of the FRESH program. The Proposed Action would facilitate the development of mixed-income affordable housing in the Wakefield neighborhood of the Bronx, as well as generate new commercial uses to vitalize the Directly Affected Area at the street level; this would promote the initiatives of OneNYC and *Housing New York*. Therefore, no significant adverse impacts on public policy are anticipated as a result of the Proposed Action.

[20] Vision Zero page 44
[21] Food Retail Expansion to Support Health Program, City of New York, Office of the Mayor, http://www.nyc.gov/html/misc/html/2009/fresh.shtml, Accessed November 2, 2016.

ATTACHMENT D. SOCIOECONOMIC CONDITIONS

INTRODUCTION

According to the *CEQR Technical Manual,* the socioeconomic character of an area includes its population, housing, and economic activity. Even when socioeconomic change may not result in environmental impacts under CEQR, they are disclosed if they would affect land use patterns, low-income populations, the availability of goods and services, or economic investment in a way that changes the socioeconomic character of the area. According to the *CEQR Technical Manual*, a socioeconomic assessment considers whether development resulting from a proposed project could result in significant adverse impacts on the socioeconomic character of the area as a result of: (i) direct displacement of the residential population on the project site; (ii) indirect displacement of the residential population within the project area; (iii) direct displacement of existing businesses from the project site; (iv) indirect displacement of existing businesses within the project area; and/or (v) adverse effects on specific industries.

METHODOLOGY

According to the *CEQR Technical Manual*, an assessment of socioeconomic conditions typically separates the socioeconomic conditions of area residents from those of area businesses, although a proposed project may affect both in similar ways. A proposed project may directly displace residents or businesses, or change the area's socioeconomic conditions that may indirectly displace residents or businesses.

The *CEQR Technical Manual* defines direct displacement as the involuntary displacement of residents or businesses from a project site(s) directly affected by a proposed project. Indirect displacement is the involuntary displacement of residents, businesses, or employees that results from a change in socioeconomic conditions in a particular study area as a result of the proposed project.

Direct Residential Displacement

The With Action Condition would displace approximately 27 residents. According to guidance defined in the *CEQR Technical Manual*, direct residential displacement is not by itself a significant socioeconomic impact. The direct residential displacement would have to represent a substantial or significant portion of the primary Study Area population. The With-Action Condition has the potential to displace residents currently occupying the Directly Affected Area. Therefore, an assessment of direct residential displacement is warranted.

Indirect Residential Displacement

The With Action Condition would result in the addition of approximately 405 dwelling units compared to the No-Action Condition. According to the *CEQR Technical Manual*, projects that would result in more than 200 new residential units may lead to indirect residential displacement. Therefore, a preliminary assessment of potential indirect residential displacement is warranted.

Direct Business Displacement

The With Action Condition would result in the direct displacement of existing businesses from the Directly Affected Area, specifically, automotive service and repair facilities, a miscellaneous manufacturing facility, and a wholesale meat market. This would result in the direct displacement of approximately 46 employees.[22] The displacement of approximately 46 employees would not exceed the 100-employee threshold warranting an assessment, as described in the *CEQR Technical Manual.* Moreover, the products and services offered by these businesses are not uniquely dependent on this location; are not the subject of other regulations or publically adopted plans aimed at their preservation; and do not serve a population uniquely dependent on their services in their present location. Based on these criteria, an assessment of direct displacement of existing businesses is not warranted.

Indirect Business Displacement

The With-Action Condition would result in the development of approximately 73,344 gsf of commercial floor area within the Directly Affected Area, which represents an incremental increase of commercial floor area of approximately 62,120 gsf as compared to the No-Action condition. According to the *CEQR Technical Manual*, projects resulting in less than 200,000 square feet of retail on a single development site would not typically result in indirect socioeconomic impacts due to market saturation. Based on these criteria, because the cumulative incremental development across the Directly Affected Area would be less than 200,000 gsf, an assessment of indirect business displacement is not warranted.

Adverse Effects on Specific Industries

The Directly Affected Area is currently occupied by automotive service and repair facilities, a miscellaneous manufacturing facility, and a wholesale meat market. The replacement of these facilities with mixed residential-commercial developments would not affect the economic and operational conditions of either the automotive service industry or wholesale meat market at large. These categories of businesses are not unique to the Directly Affected Area and can be found either elsewhere in the vicinity of the Directly Affected Area, in the Borough of the Bronx, or across New York City. Moreover, their replacement would not result in the loss or substantial diminishment of a particularly important product or service within New York City. Based on these criteria, an assessment of the Proposed Action's potential effects on specific industries is not warranted.

STUDY AREA

According to the *CEQR Technical Manual,* the Socioeconomic Conditions Study Area is typically the same as the Land Use Study Area and should reflect the scale of the project relative to the area's population. The *CEQR Technical Manual* states that for projects that would increase the population by more than 5 percent within a 0.25-mile Study Area compared to the projected population in the

[22] The existing number of employees in the Directly Affected Area is based on 3 employee per 1,000 sf of retail; 4 employee for every 1,000 sf of office space; 1 employee per 450 sf of community facility/institutional; 1 employee per 500 sf of hotel; 1 employee per 10,000 sf of parking; and 1 employee per 25 residential units. (http://nces.ed.gov/programs/stateprofiles/sresult.asp?mode=short&s1=36).

future without the proposed action, a 0.5-mile Study Area would be appropriate for analysis purposes.

The Proposed Action would likely increase the residential population by approximately 1,000 residents as compared to the No-Action condition. This With-Action net population increase exceeds 5 percent of the Study Area population within a 0.25-mile radius of the Directly Affected Area. Therefore, pursuant to the *CEQR Technical Manual*, the Study Area was expanded to 0.5-miles. As shown in the Preliminary Assessment below, the With-Action Condition would result in a 4.40 percent increase the population within a 0.5-mile Study Area as compared to the No-Action Condition. For this analysis, the 0.5-mile Study Area includes Bronx Census Tracts 414, 418, 434, 436, 442 and 444.

PRELIMINARY ASSESSMENT

Direct Residential Displacement

The With-Action Condition would result in the displacement of approximately 27 residents on the Directly Affected Area. As shown in Table D-1, the residents displaced in the With-Action Condition would account for approximately 0.12 percent of the primary Study Area population.

Table D-1: Direct Residential Displacement in With-Action Condition

	Existing Study Area Population	Residents Displaced as a result of the With-Action Condition	Threshold Percentage	Percentage of Study Area Population
Population	22,718	27	5.0%	0.12%

***Source**: Existing population is from US Census Bureau, 2010 Census; and existing Housing Units is from US Census Bureau, 2011-2015 American Community Survey (ACS) 5-Year Estimates for Selected Census Tract(s) within 0.5-mile: Bronx 414, 418, 434, 436, 442 and 444.*

In accordance with *CEQR Technical Manual* guidelines the development in the With-Action Condition must result in the direct displacement of a substantial or significant portion of the primary Study Area population to necessitate an evaluation of the average income of residents within the primary Study Area. The *CEQR Technical Manual* defines a substantial or significant portion of a Study Area as being five (5) percent or greater. Therefore, because With-Action Condition would not directly displace residents equating to five (5) percent or more of the Study Area population, no further assessment of direct residential displacement is necessary.

Indirect Residential Displacement

The With-Action Condition would result in the incremental development of approximately 405 dwelling units, 255 of which are would be allocated as affordable housing for low-, moderate-, and middle-income families. Assuming that the average renter-occupied household size for Bronx Census Tract 434 would not change, the additional 405 dwelling units would result in an increase of approximately 1,000 residents within the 0.5-mile Study Area.[23] Accordingly, the additional residents in the With-Action Condition would increase the total population in the Study Area by

[23] The average household size of renter-occupied units in Bronx Census Tract 434 is 2.47 (Selected Housing Characteristics 2011-2015 ACS 5-Year Estimates)

approximately 4.40 percent to 23,718 by the 2026 Build Year, as compared to the No-Action Condition.

Table D-2: Residential Population and Dwelling Units – 0.5-mile Study Area

	Existing Condition	No-Action Condition (Build Year 2026)	With-Action Condition (Build Year 2026)	Increment between No-Action and With-Action (Build Year 2026)
Population	22,718	22,718	23,718	1,000
Dwelling Units	7,778	7,778	8,183	405

***Source**: Existing population is from US Census Bureau, 2010 Census; and existing Housing Units is from US Census Bureau, 2011-2015 American Community Survey (ACS) 5-Year Estimates for Selected Census Tract(s) within 0.5-mile: Bronx 414, 418, 434, 436, 442 and 444.*
***Notes:** 2026 Study Area includes population generated from the No-Build project located at 46-02 70th Street*

In accordance with *CEQR Technical Manual* guidelines, because the anticipated incremental population increase within the 0.5-mile Study Area would be less than 5 percent, the 0.5-mile Study Area will be used to analyze the Proposed Actions' potential to result in indirect residential displacement.

According to the *CEQR Technical Manual,* a preliminary assessment of a particular project's potential to result in indirect residential displacement considers the following questions:

- Would the expected average incomes of the new population exceed the average incomes of the study area population?
- If yes, would the increase in population represent more than 5 percent of the primary study area population or otherwise potentially affect real estate market conditions?
- If yes, would the study area have a significant number of unprotected rental units?

In order to determine if the expected average incomes of the new residents in the development in the With-Action Condition would exceed the average incomes of the population in the Study Area, this preliminary analysis examines the new populations expected to occupy the proposed market rate and affordable dwelling units and the expected incomes of these populations. According to the US Census Bureau 2011-2015 American Community Survey 5-year Estimates, the existing average (median) household income in the 0.5-mile Study Area around the Directly Affected Area is approximately $26,078.[24] The average household size within the 0.5-mile Study Area for renter-occupied units is 2.72. The average household size for renter-occupied units within the Census Tract the development in the With-Action Condition is located in however is 2.47.[25] The development in the With-Action Condition would include the addition of approximately 405

[24] US Census Bureau 2011-2015 American Community Survey 5-Year Estimates for Selected Bronx Census Tracts 414, 418, 434, 436, 442 and 444 (https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?fpt=table)
[25] US Census Bureau 2011-2015 American Community Survey 5-Year Estimates for Selected Bronx Census Tracts 414, 418, 434, 436, 442 and 444. (https://factfinder.census.gov/faces/tableservices/jsf/pages/productview.xhtml?fpt=table. Accessed on July 6th, 2017)

residential dwelling units compared to the No-Action condition (approximately 255 of which would be permanently affordable).

The With-Action Condition would appropriate approximately 48 percent of the total residential floor area to affordable housing units for residents with annual incomes averaging at 80 percent AMI (approximately $68,720[26] per year for a family of three), according to the U.S. Department of Housing and Urban Development (HUD).

In the With-Action Condition, approximately 63 percent of the *incremental* residential floor area (255 dwelling units) would be allocated as affordable housing for low-income families. The remaining 37 percent of the *incremental* residential floor area (150 dwelling units) would be available at market rate.

Based on this information, the average annual income anticipated for the new population that would qualify for affordable housing in the With-Action development is expected to be approximately $68,720 for a family of three, which is higher than the existing average (median) household income in the 0.5-mile Study Area.

Although the anticipated average annual incomes of the incremental population in the With-Action Condition would have the potential to be higher than the anticipated average annual incomes in the No-Action Condition within the Study Area, the total population introduced as a result of the With-Action Condition would represent less than a five (5) percent increase in the total Study Area population as compared to the No-Action Condition. Consequently, based on the marginal increase in total Study Area population as a result of the Proposed Actions, and the incremental addition of approximately 255 affordable dwelling units, it is not anticipated that the With-Action Condition would introduce or substantially accelerate a trend of change in the residential real estate market that would result in the potential displacement of a vulnerable population to the extent that the socioeconomic condition of the neighborhood would change.

CONCLUSION

The residents directly displaced as a result of the With-Action Condition would account for approximately 0.12 percent of the primary Study Area population. Ultimately, because direct residential displacement resulting from the development in the With-Action Condition would not meet or exceed five (5) percent of the primary Study Area population, the With-Action Condition would not satisfy the criteria for further evaluation of direct residential displacement.

The 4.40 percent increase in total population of the Study Area that would result from the Proposed Actions would not be anticipated to be large enough to cause indirect displacement of residents or businesses or broadly affect real estate market conditions as compared to the No-Action Condition. Moreover, given that the increase in population accounts for less than five (5) percent of the Study Area, and 30 percent of the incremental residential floor area would be permanently affordable, the Proposed Actions are unlikely to increase incomes in the Study Area to the extent that it would

[26] 2017 AMI for New York City Region (http://www1.nyc.gov/site/hpd/about/what-is-affordable-housing.page) (Accessed on July 10, 2017)

potentially displace a vulnerable population by adversely affecting the socioeconomic condition of the neighborhood.

Based on the preliminary analysis above, the Proposed Action is not anticipated to result in the indirect or direct displacement of existing residents or businesses in the Study Area. Therefore, the Proposed Action would not result in any significant adverse impacts on the socioeconomic conditions of the neighborhood, and no further analysis is necessary.

ATTACHMENT E. COMMUNITY FACILITIES AND SERVICES

INTRODUCTION

The *CEQR Technical Manual* defines community facilities as public or publicly funded schools, hospitals, libraries, child care centers, health care facilities, and fire and police protection services. A proposed project may affect community facility services directly, when it physically displaces or alters a community facility or indirectly, when it results in a change in population that would affect the services provided by a community facility. According to the *CEQR Technical Manual*, a proposed project would have the potential for an indirect impact on community facilities and services if it would result in an increase in population that would subsequently increase demand for existing services provided.

METHODOLOGY

Direct Impacts

According to the *CEQR Technical Manual*, if a proposed project would physically alter a community facility, whether by displacement of the facility or other physical change, this "direct" effect triggers the need to assess service delivery of the facility and the potential effect that physical change may have on that service delivery. The Proposed Action would not directly eliminate, displace, or alter any publicly funded community facilities, including public schools, libraries, health care facilities, day care centers, or police or fire stations. Therefore, an assessment of direct impacts on these services is not warranted.

Indirect Impacts

According to the *CEQR Technical Manual*, an increase in population as a result of a proposed project could potentially result in an increase in the demand for existing services, which may result in an "indirect" effect on service delivery. Depending on the size, income characteristics, and age distribution of the new population, there may be effects on public schools, libraries, or child care centers.

Libraries

The Proposed Action would not result in a five percent or more increase in the ratio of residential units to library branches; therefore, an assessment of the Proposed Action's potential indirect impacts on libraries is not warranted.

Fire and Police Services/Health Care Facilities

The Proposed Action would not result in the introduction of a sizable new neighborhood. Therefore, an assessment of the Proposed Action's potential indirect impacts on fire and police services and health care facilities is not warranted.

Public Schools

According to the *CEQR Technical Manual*, an analysis of a project's potential impacts on elementary and intermediate public schools is required if a project in the Bronx would generate at least 90 new dwelling units. An analysis of a project's potential impacts on public high schools is required if a project would generate at least 787 new dwelling units.[27] Because the Proposed Action would result an increment of 405 dwelling units, an analysis of potential indirect impacts on public elementary and intermediate schools is necessary, however an analysis of potential indirect impacts on public high schools is not required.

Publicly Funded Child Care

According to the *CEQR Technical Manual*, an analysis of publicly funded child care and head start facilities is required if a proposed project introduces 20 or more eligible children under age six. Based on the number of low- to moderate-income housing units at 80 percent of the Area Median Income (AMI) (162), the With-Action Condition would result in a net increase of approximately 23 children under age six compared to the No-Action Condition, which would exceed the CEQR threshold.[28] Therefore, an analysis of the Proposed Action's impact on publicly funded child care is warranted.

Study Areas

Based on *CEQR Technical Manual* guidance, the study area for analysis is different for each type of facility. For an analysis of elementary and intermediate schools the study area should be the school district's "sub-district" in which the project is located. The Directly Affected Area is located in Sub-District 2 of Community School District (CSD) 11. Consequently, the study area for public school assessment in this section is limited to CSD 11, Sub-District 2 (the "School Study Area").

For an analysis of child care centers, all publicly funded group child care and Head Start centers within approximately 1.5 miles of the Directly Affected Area are considered.

EXISTING CONDITIONS

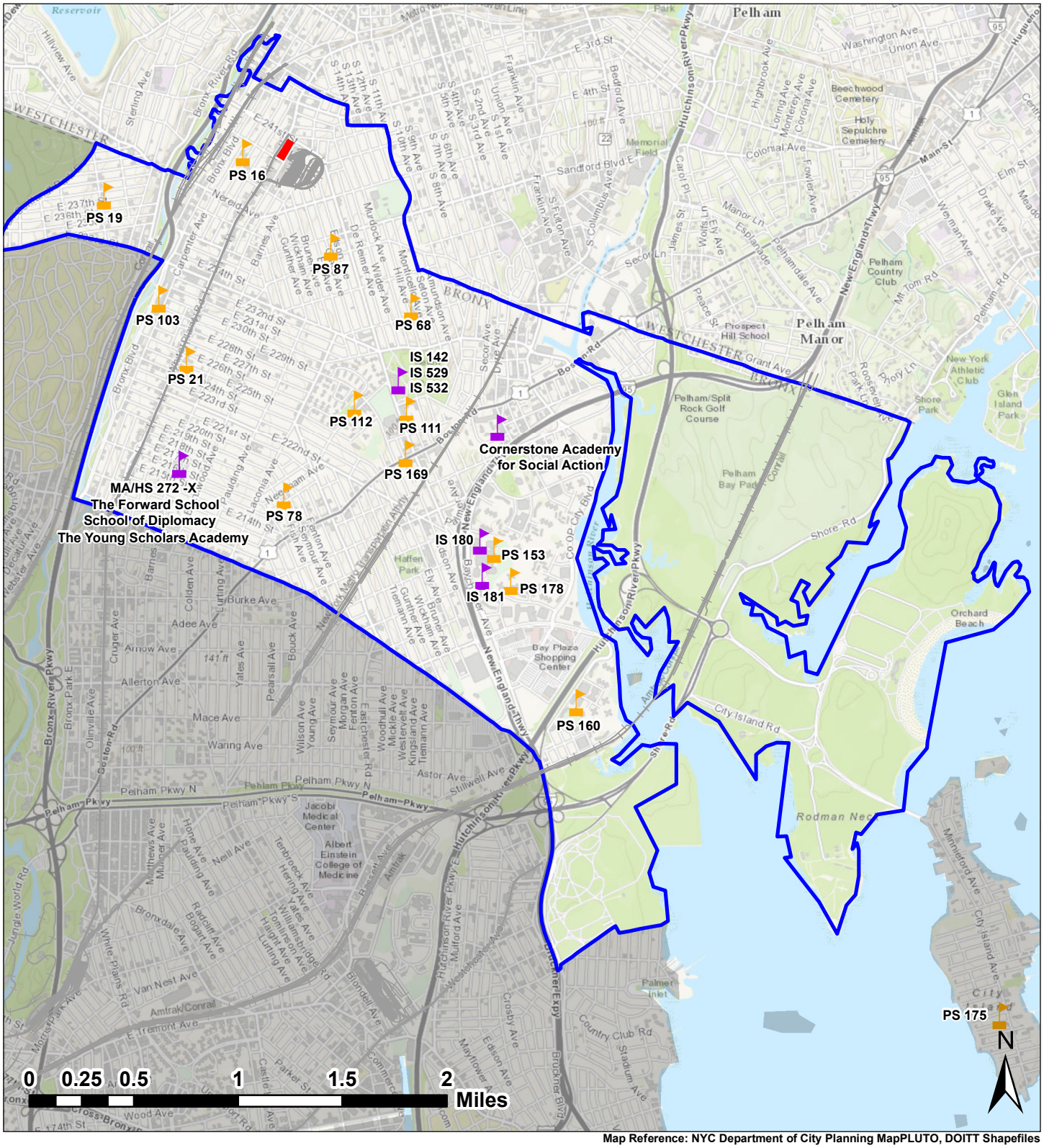
Elementary and intermediate schools in New York City are located in geographically defined school districts. As shown in Figure 9 and Table E-1, the Directly Affected Area is located in Sub-District 2 of CSD 11. Schools located in Sub-District 2 of CSD 11 can generally be defined by one of three categories: elementary, intermediate, or combined elementary/intermediate schools. Elementary schools (PS) serve pre-kindergarten (Pre-K) or kindergarten through grade 5, intermediate schools (IS) serve grades 6 through 8, and elementary/intermediate schools (PSIS) serve Pre-K or kindergarten through grade 8. Temporary buildings or transportable classroom units (TCUs) are not permanent and, therefore, are not considered in the No-Action and With-Action analyses. For reference and completeness all TCUs within CSD 11 Sub-district 2 are listed in Table E-1.

[27] *CEQR Technical Manual*, Table 6-1, Page 6-3.
[28] In the Bronx, the minimum number of residential units to yield 20 children less than six years of age is 141 units. Multipliers to calculate children generated in the No-Action and With-Action Conditions are provided in the *CEQR Technical Manual*, Table 6-1b, Page 6-4.

FIGURE 9

EAST 241ST STREET REZONING

PUBLIC SCHOOLS (CSD 11, SD2)



Map Reference: NYC Department of City Planning MapPLUTO, DOITT Shapefiles

- Directly Affected Area
- School District 11, Subdistrict 2
- Other Subdistricts
- Intermediate School
- Elementary School

WAKEFIELD, BRONX, NY

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Elementary Schools

As shown in Table E-1, the New York City Department of Education (DOE) 2016-2017 school year enrollment data indicate that elementary schools (excluding temporary buildings and TCUs) in CSD 11, Sub-District 2 (the "School Study Area") operate at approximately 110 percent of intended capacity. There are a total of 16 public elementary schools within the School Study Area; 14 schools serve grades Pre-K through 5, and two (2) schools serve grades Pre-K through 8 (No. 2 and 13). There are temporary buildings or TCUs within four (4) schools serving Pre-K through grade 5 (No. 1, 4, 6, and 7), and one (1) school serving Pre-K through grade 8 (No. 13). The existing elementary school enrollment is approximately 8,508 students and with a target capacity of 7,037 students for Pre-K through grade 5, the elementary schools in CSD 11, Sub-District 2 are operating at a deficit capacity of approximately 719 seats.

Table E-1: Public Elementary Schools - Existing Enrollment, Capacity, and Utilization: 2016-2017 School Year (School District 11, Sub-District 2)

No.	School Name	Address	Grades Served	PS Enrollment	PS Target Capacity	PS Seats Available	PS Utilization (Percent)
1	PS. 16	4550 Carpenter Avenue	Pre-K–5th	223	379	156	107%
	PS 16 (TCU-1)			88	0	-88	-
	PS 16 (TCU-2)			93	0	-93	-
2	PS 19	4318 Katonah Avenue	Pre-K–8th	351	202	-149	174%
3	PS 21	715 East 225th Street	Pre-K–5th	681	614	-67	111%
4	PS 68	4011 Monticello Avenue	Pre-K–5th	585	611	26	96%
	PS 68 (TCU)			125	182	57	69%
5	PS 78	1400 Needham Avenue	Pre-K–5th	823	646	-177	127%
6	PS 87	1935 Bussing Avenue	Pre-K–5th	426	344	-82	175%
	PS 87 (TCU)			175	0	-175	-
7	PS 103	4125 Carpenter Avenue	Pre-K–5th	946	730	-216	130%
	PS 103 (TCU)			248	217	-31	114%
8	PS 111	3740 Baychester Avenue	Pre-K–5th	670	724	54	93%
9	PS 112	1925 Scheiffelin Avenue	Pre-K–5th	390	477	87	82%
10	PS 153	650 Baychester Avenue	Pre-K–5th	688	635	-53	108%
11	PS 160	4140 Hutchinson River Pkwy	Pre-K–5th	417	316	-101	132%
12	PS 169	3500 Edson Avenue	Pre-K–5th	414	266	-148	156%
13	PS 175	200 City Island Avenue	Pre-K–8th	188	158	-30	134%
	PS 175 (TCU)			23	0	-23	-
14	PS 178	850 Baychester Avenue	Pre-K–5th	484	381	-103	127%
15	PS/IS 189	3441 Steenwick Avenue	Pre-K–5th	395	409	14	97%
16	The Matilda Avenue School	4520 Matilda Avenue	Pre-K-5th	75	145	70	52%
Total Capacity for Elementary Schools (with temporary schools/ facilities)				**8,508**	**7,436**	**-1,072**	**114%**
Total Capacity for Elementary Schools (without temporary schools/ facilities)				**7,756**	**7,037**	**-719**	**110%**

Source: *NYC Department of City Planning, 2018; New York City Department of Education, Enrollment – Capacity – Utilization Report, 2016-2017 School Year*

Intermediate Schools

As shown in Table E-2, the DOE 2016-2017 school year enrollment data indicate that intermediate schools in CSD 11, Sub-District 2 (School Study Area) operate at approximately 78 percent of intended capacity. There are a total of 11 public intermediate schools within the School Study Area, two (2) schools serve grades Pre-K through 8 and nine (9) schools serve grades 6 through 8. There are no temporary classrooms or TCUs within any of the intermediate schools. With an existing enrollment of approximately 4,232 students and a target capacity of 5,431 students for grades 6 through 8, the intermediate schools in CSD 11, Sub-District 2 have a surplus capacity of 1,199 seats.

Table E-2: Public Intermediate Schools (IS) – Existing Enrollment, Capacity, and Utilization: 2016-2017 School Year (School District 11, Sub-District 2)

No.	School Name	Address	Grades Served	IS Enrollment	IS Target Capacity	IS Seats Available	IS Percent Utilization
1	IS 180	700 Baychester Avenue	6th-8th	880	1120	240	79%
2	IS 181	800 Baychester Avenue	6th-8th	850	875	25	97%
3	The Forward School	3170 Barnes Avenue	6th-8th	263	319	56	82%
4	The Young Scholars Academy	3170 Barnes Avenue	6th-8th	319	583	264	55%
5	Bronx Alliance Middle School	3750 Baychester Avenue	6th-8th	332	470	138	71%
6	School of Diplomacy	3170 Barnes Avenue	6th-8th	393	750	357	52%
7	Corner Stone Academy for Social Action (CASA)	3441 Steenwick Avenue	6th-8th	264	310	46	85%
8	IS 529	3750 Baychester Avenue	6th-8th	343	450	107	76%
9	IS 532	3750 Baychester Avenue	6th-8th	304	358	54	85%
10	PS 19	4318 Katonah Avenue	Pre-K–8th	166	96	-70	173%
11	PS 175	200 City Island Avenue	Pre-K–8th	118	100	-18	118%
Total Capacity for Intermediate Schools (without temporary schools/ facilities)				**4,232**	**5,431**	**1,199**	**78%**

***Source**: NYC Department of City Planning, 2018; New York City Department of Education, Enrollment – Capacity – Utilization Report, 2016-2017 School Year*

Child Care Centers

As shown in Figure 10 and Table E-3, there are four (4) publicly funded group child care centers within 1.5 miles of the Directly Affected Area. There are no Head Start facilities in the surrounding area. As shown in Table E-3, based on the New York City Administration for Children's Services (ACS) 2017 enrollment data, publicly funded child care centers within 1.5 miles of the Directly Affected Area currently operate at approximately 91 percent of their intended capacity. With an existing enrollment of approximately 288 children and a target capacity of 317 children, there is a surplus capacity of approximately 29 seats.

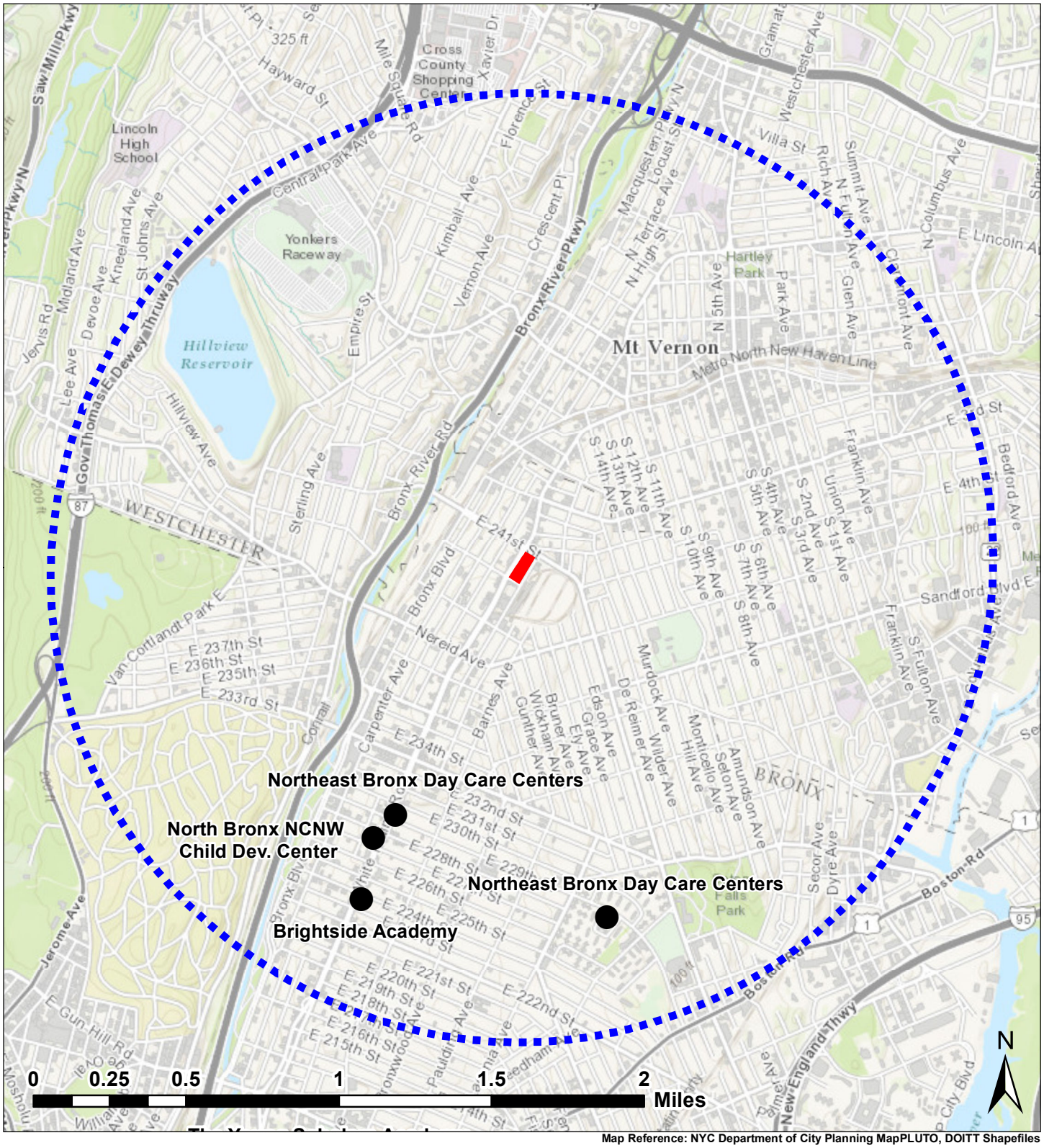
Table E-3: Existing Publicly Funded Group Child Care and Head Start Centers within the Study Area

Program	Address	Enrollment	Capacity	Slots Available	Percent Utilization
Group Child Care Centers					
Northeast Bronx Day Care Centers Inc.	1140 East 229th Street	78	83	5	94%
Brightside Academy Inc.	3942 White Plains Road	14	20	6	70%
North Bronx NCNW Child Center Inc.	4035 White Plains Road	144	160	16	90%
Northeast Bronx Day Care Centers Inc.	3440 White Plains Road	52	54	2	96%
Publicly Funded Child Care Total Capacity		**288**	**317**	**29**	**91%**
***Source**: NYC Department of City Planning, 2017.*					

FIGURE 10

EAST 241ST STREET REZONING

PUBLIC CHILD CARE CENTERS



Map Reference: NYC Department of City Planning MapPLUTO, DOITT Shapefiles

Directly Affected Area

Study Area(1.5-mile radius)

Group Child Care Facilities

WAKEFIELD, BRONX, NY

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ASSESSMENT

Public Schools

The Directly Affected Area is located in school Sub-District 2 of CSD 11; therefore, the study area for public school assessment in this section is limited to CSD 11, Sub-District 2 (School Study Area). According to the *CEQR Technical Manual* only public schools operated by the New York City Department of Education (DOE) are included in the analysis. Therefore, private, parochial, and charter schools within the School Study Area are not included in this analysis. According to the *CEQR Technical Manual*, if a project would introduce more than 50 school-age children (elementary and intermediate school students), significant impacts on public schools may occur, and further analysis of schools may be warranted. An analysis of high school students is rarely necessary since high school-level students can usually elect to attend high schools outside their sub-district. However, if the project would generate 150 or more high school students, there may be an impact on borough high schools, and further analysis may be appropriate.

According to the *CEQR Technical Manual*, a significant adverse impact may occur if the Proposed Action would result in a condition satisfying both of the following:

(1) A collective utilization rate of the elementary or intermediate schools that is equal to or greater than 100 percent in the With-Action Condition; and

(2) An increase of five (5) percent or more in the collective utilization rate between the No-Action and With-Action conditions.

No-Action Condition

Enrollment Projections

In the No-Action Condition, the Directly Affected Area would remain the same as the existing conditions. Based on the future enrollment projections provided by the School Construction Authority (SCA), an estimated 61 elementary school students and 73 intermediate school students would be introduced in the School Study Area by 2026 in the No-Action Condition (Table E-4). The latest available enrollment projections have been used to determine student enrollment for the analysis Build Year of 2026.

Table E-4: Estimated Number of Students Introduced in the School Study Area (2026 No-Action Condition)

School Study Area	Students	
	Elementary	Intermediate
CSD 11, Sub-District 1	61	73
***Source**: SCA Housing Pipeline, 2017*		

Capacity Projections

As shown in Table E-5, in the No-Action Condition, elementary schools in the School Study Area would experience a deficit of approximately 3,107 seats (144 percent utilization), and intermediate schools would operate at a surplus capacity of approximately 1,186 seats (78 percent utilization). The elementary and intermediate schools would operate at a combined utilization of approximately 115 percent in the No-Action Condition.

Table E-5: Estimated Public Elementary and Intermediate School Enrollment, Capacity, and Utilization in the School Study Area (2026 No-Action Condition)

	Projected Enrollment 2026[1]	No-Action Students[2]	Total No-Action Enrollment	Capacity	Available Seats	Utilization (%)
Elementary Schools						
CSD 11, Sub-District 2	10,083	61	10,144	7,038	-3,107	144%
Intermediate Schools						
CSD 11, Sub-District 2	4,172	73	4,245	5,431	1,186	78%

Source:
[1] *NYC Department of City Planning, 2018.*
[2] *SCA Housing Pipeline, 2017.*

With-Action Condition

Enrollment Projections

The development in the With-Action Condition would result in an incremental increase of approximately 405 residential dwelling units (162 of which would be allocated for families earning 80 percent AMI or below) as compared to the development in the No-Action Condition. Based on *CEQR Technical Manual* guidelines, the incremental residential dwelling units introduced by the Proposed Project would generate approximately 158 elementary school students and approximately 65 intermediate school students by the 2026 build year (Table E-6).

Table E-6: Incremental Number of Students Introduced in the Study Area (2026 With-Action Condition)

	Incremental Dwelling Units[1]	*Incremental* Students Introduced in the With-Action Condition	
		Elementary	Intermediate
CSD 11, Sub-District 2	405	158	65

Source: *CEQR Technical Manual, Table 6-1.*
Notes:
[1] *Development in the With-Action Condition would result in approximately 416 Dwelling Units.*

Capacity Projections

In the With-Action Condition, there would continue to be a deficit of elementary school seats in the School Study Area. As shown in Table E-7, the elementary school enrollment would increase by approximately 158 students to a total of approximately 10,302 students in 2026 under the With-Action Condition. As a result, the elementary schools would operate at 146 percent of intended

capacity, with a deficit of approximately 3,265 seats, resulting in an increased utilization of approximately two (2) percent over the No-Action Condition. The intermediate school enrollment would increase by 65 students for a total of approximately 4,310 students. As a result, the intermediate schools would operate at 79 percent capacity, with a surplus of 1,121 seats, resulting in an increased utilization of approximately one (1) percent over the No-Action Condition. The elementary and intermediate schools would operate at a combined utilization of 117 percent in the With-Action Condition, resulting in an approximately two (2) percent increase in utilization.

Based on this analysis, in the With-Action Condition there would continue to be a deficit of elementary school seats, and intermediate schools would operate at approximately 79 percent of intended capacity. The With-Action Condition would result in a collective utilization rate (combined utilization rate of elementary and intermediate schools) of 117 percent—an approximately two (2) percent increase over the collective utilization rate in the No-Action Condition. Though elementary and intermediate schools within the School Study Area would collectively continue to operate above 100 percent of their intended capacity, the increase in the collective utilization rate would be less than the threshold set forth by the *CEQR Technical Manual* (five (5) percent) representing the potential to result in a significant adverse impact. Therefore, because the development in the With-Action condition would only satisfy one (1) of the two (2) defined criteria in the *CEQR Technical Manual*, the Proposed Action is not anticipated to result in a significant adverse impact to public schools and as a result, no further assessment of public schools is warranted.

Table E-7: Estimated Public Elementary and Intermediate School Enrollment, Capacity, and Utilization in the Study Area (2026 With-Action Condition)

	Projected Enrollment 2026[1]	Students Introduced by the Proposed Project	Total Enrollment with the Proposed Project	Capacity[2]	Available Seats	Utilization (%)
Elementary Schools						
CSD 11, Sub-District 2	10,144	158	10,302	7,037	-3,265	146%
Intermediate Schools						
CSD 11, Sub-District 2	4,245	65	4,310	5,431	1,121	79%

***Source**:*
[1] *NYC Department of City Planning, 2018.*
[2] SCA Capital Division, Housing Pipeline, 2018.

Public Child Care Centers

The ACS provides subsidized child care in center-based group child care, family-based child care, informal child care centers, and Head Start centers. Publicly financed child care services are available for income-eligible children through the age of 12. This analysis focuses on services for children under age 6 because eligible children aged 6 to 12 are expected to be in school for a majority of the day. Based on CEQR guidelines, because there are no locational requirements for enrollment in child care centers and some parents/guardians may choose a child care center close to their employment rather than their residence, a study area of a 1.5-mile radius around the Directly Affected Area (the "Child Care Study Area") is used for this analysis.

Families eligible for subsidized child care must meet financial and social eligibility criteria established by ACS. In general, children in families that have incomes at or below 200 percent Federal Poverty Level (FPL), depending on family size, are financially eligible, although in some cases eligibility can go up to 275 percent FPL. The family must also have an approved "reason for care," such as involvement in a child welfare case or participation in a "welfare-to-work" program. Projects that would produce substantial numbers of subsidized, low- to moderate-income family housing units may therefore generate a sufficient number of eligible children to affect the availability of slots at publicly funded group child care and Head Start centers.

The City's affordable housing market is pegged to an Annual Median Income (AMI) rather than the FPL. Lower-income units must be affordable to households at or below 80 percent AMI. Because family incomes at or below 200 percent FPL fall under 80 percent AMI, for the purposes of this analysis, the number of housing units expected to be subsidized and targeted for incomes at 80 percent AMI or below are used as a proxy for eligibility. This provides a conservative assessment of demand, since eligibility for subsidized child care is not defined exclusively by income (generally below 200 percent of poverty level), but also takes into account family size and other reasons for care (e.g., low-income parent(s) in school; low income parent(s) training for work; or low-income parents who are ill or disabled).

The child care enrollment in the No-Action and With-Action conditions were estimated by using the number of low- to moderate-income housing unit multipliers in Table 6-1b of the *CEQR Technical Manual*. According to the *CEQR Technical Manual*, a significant adverse impact on public child care centers may occur if a proposed project would result in both of the following:

(1) A collective utilization rate of the group child care/Head Start centers in the Study Area that is greater than 100 percent in the With-Action Condition; and

(2) An increase of 5 percent or more in the collective utilization rate of the childcare/Head Start centers in the Study Area between the No-Action and With-Action conditions.

No-Action Condition

In the No-Action Condition, the Directly Affected Area would remain the same as in the existing conditions, and there are no other affordable units within the Study Area projected for the 2026 Build Year. Therefore, as shown in Table E-8, the No-Action Condition would not generate children under the age of six eligible for publicly funded child care services. The demand for publicly funded child care slots in the Child Care Study Area would remain the same as under Existing Conditions.

Table E-8: Projected Number of Publicly Funded Child Care Pupils Generated by New Development in the No-Action Condition

	Affordable Units[1]	Generation Ratio Per Unit (Children ≤ Age 6) [2]	Number of Children ≤ Age 6 Generated
Child Care Study Area Total	0	0.139	0

Source:
[1] The number of affordable units was calculated based on No-Build developments within a 1.5-mile radius of the Directly Affected Area.
[2] CEQR Technical Manual, Table 6-1b.

With-Action Condition

As discussed above, the *CEQR Technical Manual* requires a detailed analysis of child care centers when a proposed project would result in the development of subsidized low- to moderate-income family housing units that may generate a sufficient number of eligible children to affect the availability of slots at publicly funded child care centers in the Child Care Study Area. As shown in Table E-9, by 2026, the Proposed Action would result in an additional 162 affordable housing units at or below 80 percent AMI within the Directly Affected Area, which would result in an increment of 23 children under the age of 6 eligible for publicly funded child care services.

Table E-9: Projected Number of Publicly Funded Child Care Pupils Generated by the Proposed Project in the With-Action Condition

	Affordable Units at 80% AMI or below	Generation Ratio Per Unit (Children ≤ Age 6)	Number of Children ≤ Age 6 Generated
With-Action Condition	162	0.139	23
***Source**: CEQR Technical Manual, Table 6-1b.*			

As shown in Table E-10, the 23 children generated in the With-Action Condition would result in a collective child care center utilization rate of approximately 98 percent, an increase of approximately seven (7) percent as compared to the No-Action Condition.

Table E-10: Comparison of Capacity, Enrollment, Available Slots, and Percent Utilized for the No-Action and With-Action Conditions

	Enrollment	Capacity	Available Slots	Utilization (%)
No-Action Condition	288	317	29	91%
With-Action Condition	311	317	6	98%
Increment	**23**	**-**	**-23**	**7%**
***Source**: Administration for Children's Services (ACS)*				

According to the *CEQR Technical Manual*, a significant adverse impact may result if a proposed project would result in both of the following: (i) a collective utilization rate of group child care/Head Start centers in the study area that is greater than 100 percent in the With-Action Condition; and (ii) an increase of five (5) percent or more of the collective utilization rate of the child care/Head Start centers serving the study area between the No-Action and With-Action conditions.

In the With-Action Condition, enrollment in group child care facilities would increase by 23 children, totaling approximately 311 children enrolled, resulting in a collective group child care utilization rate of 98 percent, an increase of seven (7) percent as compared to the No-Action Condition. The increase in utilization rate in the With-Action Condition would be greater than the CEQR threshold of an increase of five (5) percent; however, the collective utilization rate of group child care centers within the Child Care Study Area would remain below 100 percent. Therefore, the development in the With-Action Condition would fail to meet both criteria defined in the *CEQR Technical Manual* necessary to conclude the potential for significant adverse impacts. Based on this information, a detailed assessment of child care centers is not warranted.

CONCLUSION

Based on the analyses above, the With-Action Condition would result in a collective utilization rate of 117 percent for elementary and intermediate schools. However, the increase in the collective utilization rate would be an approximately two (2) percent increase over the No-Action Condition—less than the five (5) percent threshold set forth in the *CEQR Technical Manual* for a potentially significant adverse impact. Therefore, only one of the two threshold requirements is met and the Proposed Action is not anticipated to result in any significant adverse impact on elementary schools or intermediate schools within the School Study Area (Sub-District 2 of CSD 11).

As a result of the development in the With-Action Condition, the collective utilization rate of group child care centers in the Child Care Study Area would increase by approximately seven (7) percent as compared to the No-Action Condition. The increase in the group child care center utilization rate in the With-Action Condition would be greater than the CEQR threshold of an increase of five (5) percent; however, the collective utilization rate of group child care centers within the Child Care Study Area would remain below 100 percent. Therefore, the development in the With-Action Condition would fail to meet both criteria defined in the *CEQR Technical Manual* necessary to conclude the potential for significant adverse impacts to occur. Therefore, the Proposed Action is not anticipated to result in any significant adverse impact on childcare facilities.

Based on this information, the Proposed Action is not anticipated to result in any significant adverse impacts to community facilities and services; therefore, no further analysis is warranted.

ATTACHMENT F. OPEN SPACE

INTRODUCTION

The *CEQR Technical Manual* defines open space as publicly or privately owned land that is publicly accessible and designated for leisure, play or sport, or land set aside for the protection and enhancement of the natural environment. An open space assessment is typically conducted to determine whether or not a proposed project would result in the displacement or alteration of a highly-utilized open space (direct impact) or result in an increase in population that would overburden available open space (indirect impact).

METHODOLOGY

The analysis methodology is based on the guidelines in the *CEQR Technical Manual*. The first step in the analysis is defining a study area. Once the study area is defined, the adequacy of open space resources in the study area is assessed using a ratio of the amount of usable open space acreage within the study area to the study area population (Open Space Ratio). The percentage change in the Open Space Ratio between the No-Action and the With-Action conditions determines whether or not the Proposed Action would result in indirect impacts on open space resources in the project study area.

Study Area

According to the *CEQR Technical Manual*, an open space study area is defined by a reasonable walking distance that users would travel to reach local open space and recreation areas – typically a 0.5-mile radius for residential projects and a 0.25-mile radius for commercial projects with a particular employee population. The worker population that would be generated by the Proposed Action falls below the threshold of 500 employees. Additionally, the development anticipated in the With-Action Condition would be predominantly residential; therefore, as shown in Figure 11, a 0.5-mile radius is used as the appropriate study area boundary for the purpose of this open space analysis ("Open Space Study Area"). Based on the *CEQR Technical Manual*, the open space analysis includes all census tracts with at least 50 percent of their area within the 0.5-mile radius and all publicly accessible open spaces within that area. As shown in Figure 11, the Study Area includes Bronx Census Tracts 414, 418, 434, 436, 442, and 444. The Open Space Study Area contains Wakefield Playground and a portion of the Bronx River Park. The existing open space resources within the Open Space Study Area are described below under "Existing Conditions."

Open Space Ratio (OSR)

The *CEQR Technical Manual* defines Open Space Ratio (OSR) as the amount of open space acreage per 1,000-user population. Because local OSRs vary widely in New York City, as a planning goal, an OSR of 2.5 acres per 1,000 residents defines an area as well-served by open space. An OSR of 2.5 is consequently used as an optimal benchmark for residential populations in large-scale plans and

proposals.[29] According to the *CEQR Technical Manual*, if the OSR would increase or remain substantially the same in the With-Action Condition compared to the No-Action Condition, no further analysis of open space is needed. If the Proposed Action would result in a decrease in the OSR that approaches or exceeds 5 percent, it is generally considered to be a substantial change warranting a more detailed analysis. However, a greater percentage of change (more than 5 percent) may be tolerated if open space in the area exceeds the planning goal of 2.5 acres of open space per 1,000 residents.

EXISTING CONDITIONS

The Open Space Study Area contains approximately 8.46 acres of publicly accessible open space. As shown in Figure 11 and described in Table F-1, publicly accessible open space resources within the Open Space Study Area include Wakefield Playground (1.10 acres), and part of the Bronx River Park in the Bronx, New York City (7.36 acres).

Wakefield Playground

Wakefield Playground is a 1.10-acre City-owned playground southwest of the Directly Affected Area, and is bounded by East 240th Street to the north, Matilda Avenue to the east, East 239th Street to the south, and Carpenter Avenue to the west. The playground contains basketball courts and playground equipment.[30]

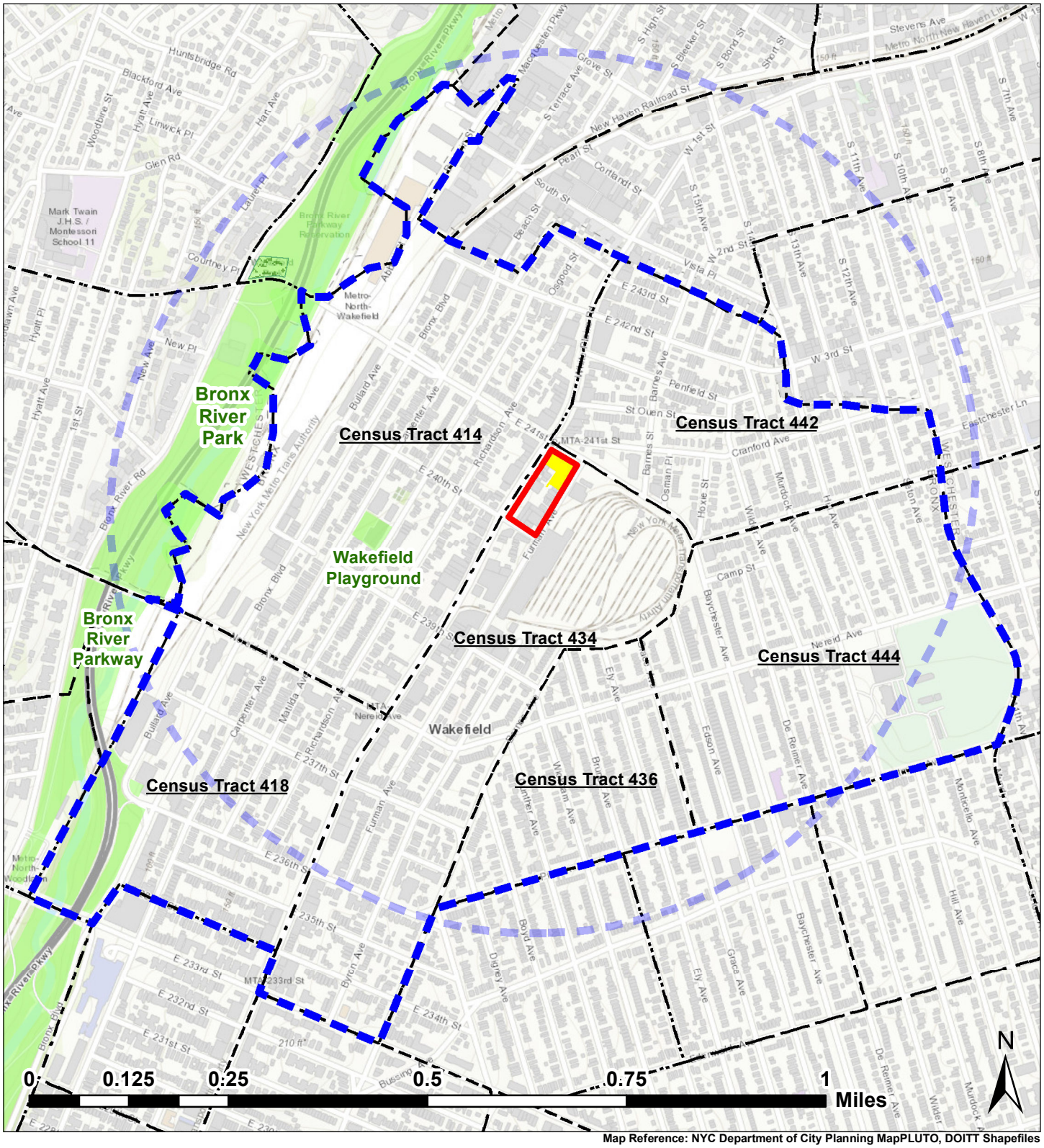
Bronx River Park

The 205.65-acre Bronx Park is adjacent to the Bronx River, west of the Directly Affected Area. The Park contains baseball fields, bicycling paths and playground equipment.[31] An approximately 7.36-acre portion of the Bronx River Park is within the Open Space Study Area.

[29] According to the *CEQR Technical Manual*, the City's planning goal of 2.5 acres of active open space per 1,000 residents is based, in part, on National Recreation and Park Association guidelines of 1.25 to 2.5 acres per 1,000 residents of neighborhood parks within one-half mile.
[30] https://www.nycgovparks.org/parks/wakefield-playground/ (Accessed November, 2016)
[31] https://www.nycgovparks.org/parks/bronx-river-parkway (Accessed November, 2016)

EAST 241ST STREET REZONING

FIGURE 11
OPEN SPACE MAP



Map Reference: NYC Department of City Planning MapPLUTO, DOITT Shapefiles

Directly Affected Area
Proposed Development Site
Census Tract
0.5-mile radius
Open Space Study Area
Open Space Resources

WAKEFIELD, BRONX, NY

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Table F-1: Open Space Resources within the Open Space Study Area

Map ID	Open Space Resource	Location	Study Area	Owner/ Agency	Amenities	Acreage	Passive		Active		Open Space Category	Condition[1]
							Acres	%	Acres	%		
1	Wakefield Playground	Matilda Avenue between East 239th Street and East 240th Street	0.5-Mile	DPR	Basketball courts, playgrounds, and bathrooms	1.10	-	-	1.10	100%	Active	Acceptable
2	Bronx River Park (Bronx)	Bronx River between Burke Avenue and the New York City – Westchester Line	0.5-Mile	DPR	Baseball fields, bicycling and greenways, playgrounds, kayak launch, spray shower, and bathrooms	7.36	3.68	50%	3.68	50%	Active & Passive	Acceptable

Notes:
[1] Condition of Park derived from inspection summary performed by New York City Department of Parks & Recreation (https://www.nycgovparks.org/parks)

ASSESSMENT

Direct Effects

The Proposed Action would not displace or alter any existing open space; therefore, an assessment of direct effects on open space is not warranted.

Indirect Effects

According to the *CEQR Technical Manual*, the threshold for an analysis of a project's indirect effects varies depending on whether the project site is in an area identified as well-served, underserved, or neither well-served nor underserved by open space. For projects not within an underserved or well-served area, an open space assessment should be conducted if that project would generate more than 200 residents or 500 employees. The With-Action Condition would result in an increment of approximately 1,000 residents; therefore, an assessment of indirect effects on open space is warranted.

According to the US Census Bureau, 2011-2015 American Community Survey 5-Year Estimates, the existing population within the Open Space Study Area is 22,718. As shown in Table F-2, with approximately 8.46 acres of publicly accessible open space, the Open Space Study Area has an existing OSR of approximately 0.37 acres per 1,000 residents.[32] Because the No-Action Condition is the same as the existing condition, the Open Space Study Area would have an OSR of approximately 0.37 in the No-Action Condition. The Study Area's No-Action passive and active open space ratios are 0.16 acres and 0.21 acres per 1,000 residents, respectively. The Study Area's passive and active open space ratios do not meet or exceed the guidance for open space as defined in the *CEQR Technical Manual*. Based on this information, there is an existing shortfall of both active and passive open space resources within the Study Area.

Table F-2: Adequacy of Open Space Resources: Existing Conditions

	Population	Open Space Acreage			Open Space Ratios per 1,000 People			*CEQR Technical Manual* Open Space Guidelines		
		Total	Passive	Active	Total	Passive	Active	Total	Passive	Active
Study Area (0.50-Mile)										
Residents	22,718	8.46	3.68	4.78	0.37	0.16	0.21	2.50	0.50	2.00
Notes: [1] Based on target open space ratios established by creating a weighted average of the amount of open space necessary to meet City guidance of 0.50 acres of passive open space per 1,000 residents and 0.15 acres of passive open space per 1,000 workers.										

The With-Action Condition would result in an additional population of approximately 1,028 residents. With approximately 8.46 acres of publicly accessible open space and a With-Action user population of 23,746, the Open Space Study Area would have an OSR of approximately 0.36 acres per 1,000 residents in the With-Action Condition. The With-Action Condition OSR would remain below the planning goal of 2.5 acres of open space per 1,000 residents; however the Proposed

[32] U.S. Census Bureau, 2011-2015 American Community Survey 5-Year Estimates, Bronx Census Tract(s): 414,434,436,442,444 and Westchester Census Tract 30.

Action would reduce OSR by approximately 4.33 percent, which is below the impact threshold of five (5) percent as defined in the *CEQR Technical Manual*. Therefore, the Proposed Action would not result in significant adverse impact on the open space resources within the 0.5-mile study area.

Table F-3: No-Action and With-Action Open Space Ratio (OSR)

Existing/No-Action User Population within 0.5-mile radius	22,718
Total Residents in the With-Action Condition	*1,028*
Total User Population under With-Action Condition	23,746
Total Open Space within 0.5-mile (acres)	8.46
Existing/No-Action OSR (acres per 1,000 residents)	0.37
With-Action OSR (acres per 1,000 residents)	0.36
Change in Open Space Ratio (OSR) (%)	**-4.33%**

Notes:
*[1] With Action Open Space Ratio = Acres of Open Space/ population * 1000.*
[2] Existing Population Source: U.S. Census Bureau, 2011-2015 American Community Survey 5-Year Estimates ((Selected Census Tract(s): Bronx 414, 418, 434, 436, 442, and 444.
[3] Total Open Space Source: MapPluto Data Copyrighted by New York City Department of City Planning, and Department of Parks and Recreation (DPR).

Qualitative Assessment

While the Open Space Study Area provides a mix of active and passive open space resources – with approximately 43 percent utilized for passive uses and approximately 57 percent utilized for active uses – the open space ratios are below the *CEQR Technical Manual* recommended open space ratios, as well as the city-wide median ratio of 1.5 acres per 1,000 residents.

However, these conditions are offset by three open space resources that are within one mile of the Directly Affected Area: Bronx River Park Reservation (Yonkers), Wakefield Park (Yonkers), and Van Cortlandt Park (Bronx) (Figure 12).

Bronx River Park Reservation (Yonkers)

The 807-acre Bronx River Parkway Reservation is a continuation of the Bronx River Park north of the Bronx County-Westchester County boundary.. The Bronx River Parkway Reservation is bounded by Kensico Dam Plaza in Valhalla to the north, North MacQuesten Parkway to the east, the Bronx-Westchester boundary to the south, and Bronx River Road to the west. The Park offers users the ability to hike, fish, cross-country ski and observe nature.[33] An approximately 30.16-acre portion of the Bronx River Parkway Reservation is within 0.5 miles of the Directly Affected Area.

[33] http://parks.westchestergov.com/bronx-river-reservation (Accessed November, 2016)

Wakefield Park (Yonkers)

The 0.65-acre Wakefield Park is within the Bronx River Park Reservation at the northeast corner of Wakefield Avenue and Bronx River Road, and is operated by the City of Yonkers, Westchester County. The Park contains playground equipment and benches.[34]

Van Cortlandt Park (Bronx)

The 1,146.43-acre Van Cortlandt Park is approximately one mile west of the Directly Affected Area, generally bounded by the Bronx-Westchester County boundary to the north, Jerome Avenue to the east, Broadway to the west, and Van Cortlandt Park to the south. As the third largest park in New York City, Van Cortlandt Park is a regional open space resource. Amenities provided by Van Cortlandt Park include athletic fields, barbequing areas, fitness equipment, golf courses, playgrounds, dog friendly areas, outdoor pools, and horseback riding trails.[35] While Van Cortlandt Park is beyond 0.5 miles of the Directly Affected Area, it is nonetheless easily accessible via Wakefield Avenue and Kimball Avenue. The Bx16 MTA Bus Line, three blocks south of the Directly Affected Area at the intersection of White Plains Road and Nereid Avenue, provides service to the park.

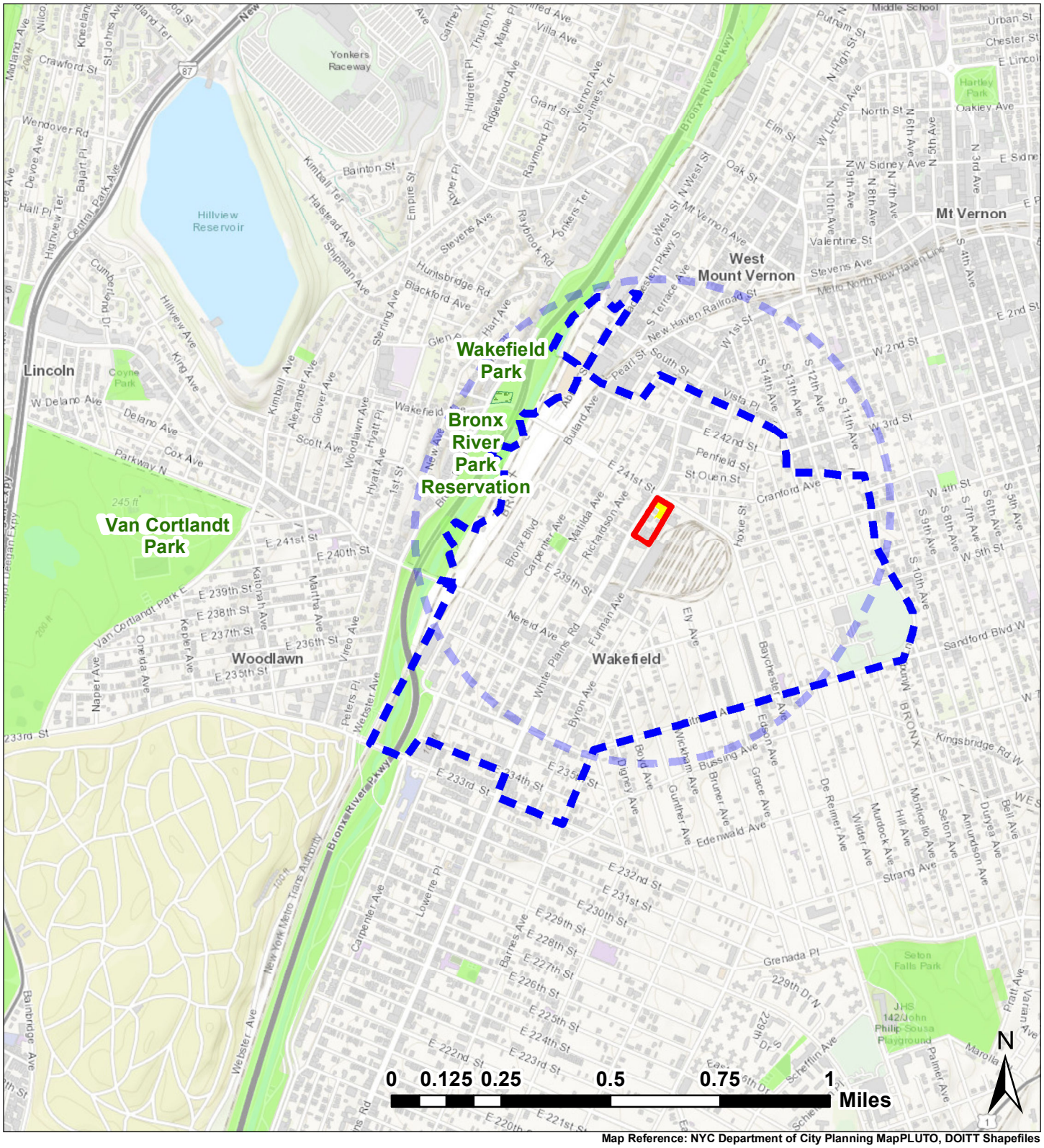
As shown in Table F-4, these three open space resources total approximately 1,177.24 acres. Collectively, these they contain both active use amenities, such as athletic fields, basketball courts, outdoor pools, playgrounds, bicycling trails, and horseback riding trails, and passive use amenities such as benches, seating areas, and barbequing areas.

[34] http://www.yonkersny.gov/Home/Components/FacilityDirectory/FacilityDirectory/134/3329?npage=4 (Accessed November, 2016)
[35] https://www.nycgovparks.org/parks/VanCortlandtPark (Accessed May, 2018)

FIGURE 12

EAST 241ST STREET REZONING

OPEN SPACE - QUALITATIVE ANALYSIS



Map Reference: NYC Department of City Planning MapPLUTO, DOITT Shapefiles

Directly Affected Area

Proposed Development Site

Census Tract

0.5-mile radius

Open Space Study Area

Open Space Resources

WAKEFIELD, BRONX, NY

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Table F-4: Open Space Resources for Qualitative Assessment

	Open Space Resource	Location	Owner/ Agency	Amenities	Acreage	Open Space Category
A	Bronx River Park Reservation	Bronx River between New York City – Westchester Line and Kensico Dam Plaza	Westchester Parks & Recreation	Bicycling, hiking, fishing, and sitting areas	30.16	Active and Passive
B	Wakefield Park	Bronx River Road Yonkers, NY 10701	Yonkers Parks, Recreation & Conservation	Playground equipment and benches	0.65	Active and Passive
C	Van Cortlandt Park	NYC - Westchester County Line and Van Cortlandt Park South between Broadway and Jerome Ave	DPR	Athletic fields, barbeque areas, basketball courts, dog friendly areas, outdoor pools, playgrounds, and horseback riding trails	1,146.43	Active and Passive

CONCLUSION

According to the *CEQR Technical Manual*, significant impacts on open space resources include direct impacts, when a project would displace/alter existing open space within the study area; and indirect impacts, when a project would result in reduction of the open space ratio and consequently result in the overburdening of existing open spaces within the study area. The With-Action Condition would not directly displace or alter an existing open space and there would be no direct open space impacts.

A significant adverse indirect open space impact may occur if a proposed action would reduce the open space ratio by more than five (5) percent in areas that are currently below the City's median community district open space ratio of 1.50 acres per 1,000 residents. In areas that are extremely scarce with regard to open space, a reduction as little as one (1) percent may be considered significant, depending on the area of the City. These reductions may result in overburdening existing facilities or further exacerbating a deficiency in open space.

Table F-5: Open Space Ratio Summary

	Study Area		
	Total - Residents	**Passive - Residents**	**Active - Residents**
CEQR Technical Manual Open Space Guidelines	2.50	0.50	2.00
Existing Open Space Ratio	0.37	0.16	0.21
With-Action Open Space Ratio	0.36	0.15	0.20
Percent Change (No-Action to With-Action)	**-4.33%**	**-4.33%**	**-4.33%**

In accordance with *CEQR Technical Manual* guidelines, the planning goal of 2.5 acres of open space per 1,000 residents represents an area well served by open space. The development in the With-Action Condition would result in the addition of approximately 1,028 residents. As shown in Table

F-5, the OSR in the With-Action Condition would be reduced from 0.37 to 0.36, an approximately 4.33 percent reduction; this is below the 5 percent CEQR threshold for potential adverse impacts.

The Study Area's With Action passive and active open space ratios (0.15 acres and 0.20 acres per 1,000 residents, respectively) would remain below the *CEQR Technical Manual* recommended open space ratios. However, as described in the qualitative assessment above, this is offset by the three major open space resources within one mile of the Directly Affected Area. Collectively, these resources provide access to an additional 1,177.24 acres of both passive and active open space.

Based on this information, the Proposed Actions would not result in significant adverse indirect impacts on open space and no further analysis is warranted.

ATTACHMENT G. SHADOWS

INTRODUCTION

According to the *CEQR Technical Manual*, a shadow assessment is necessary when a proposed action would result in a new structure(s) or an addition to an existing structure(s) that is greater than 50 feet in height or is adjacent to an existing sunlight-sensitive resource. The *CEQR Technical Manual* defines a shadow as a condition that results when a building or other built structure blocks the sunlight that would otherwise directly reach a certain area, space, or feature. An adverse shadow impact would occur when a shadow from a proposed project falls on a publicly accessible open space, historic landscape, or other historic resource that requires sunlight for its enjoyment by the public, or its architectural and historic integrity (*e.g.*, stained glass windows), or if the shadow falls on an important natural feature and adversely affects its use or landscaping and vegetation. Shadows occurring on non-significant features (city streets, sidewalks, buildings, and privately-owned open space), or within 1.5 hours of sunrise or sunset, generally are not considered significant under CEQR.

METHODOLOGY

The analysis methodology is based on the guidelines of the *CEQR Technical Manual*, which includes conducting a preliminary assessment to determine whether shadows resulting from a proposed project could reach any sunlight-sensitive resource at any time of year. The Tier 1 screening assessment identifies the shadow study area based on the height of the structure(s) in the future with the proposed action and the longest shadow a proposed structure(s) could cast, which in New York City is 4.3 times the height of the structure. If there are sunlight-sensitive resources within the shadow study area, a Tier 2 screening assessment is warranted. As stated in the *CEQR Technical Manual*, because of the path the sun travels across the sky in the northern hemisphere, no shadow can be cast in a triangular area south of any given project site. In New York City, this area lies between -108 and +108 degrees from true north. If the area outside this triangular area contains a sunlight-sensitive resource(s), further analysis is necessary. The Tier 3 screening assessment is a detailed assessment that further refines the analysis once sunlight-sensitive resources have been identified by analyzing specific representative days of the year and determining the maximum extent of shadows over the course of each representative day on these sunlight-sensitive resources.

Based on the guidelines of the *CEQR Technical Manual*, if the three-tiered screening analysis described above does not rule out the possibility that project-generated shadows would reach any sunlight-sensitive resources, a detailed shadow analysis is warranted.

PRELIMINARY SCREENING ASSESSMENT

The Proposed Action would facilitate the construction of five (5), 115-foot tall buildings in the Directly Affected Area. The Proposed Development is designed with a maximum building height of approximately 90 feet and 8 inches; however, the maximum allowable building height in the R7D

district is 115 feet.[36] Therefore, for a conservative shadow assessment, the Proposed Development will be analyzed at a maximum building height of 115 feet.

Tier 1 Screening Assessment

As shown in Figure 13, buildings anticipated in the With-Action Condition on the Projected Development Sites in the Directly Affected Area would cast a shadow extending over a maximum radius of 494.5 feet (Shadow Study Area). As shown, there are no sunlight-sensitive resources within Shadow Study Area. Because the Shadow Study Area does not contain any sunlight sensitive resources; no further shadow assessment is necessary.

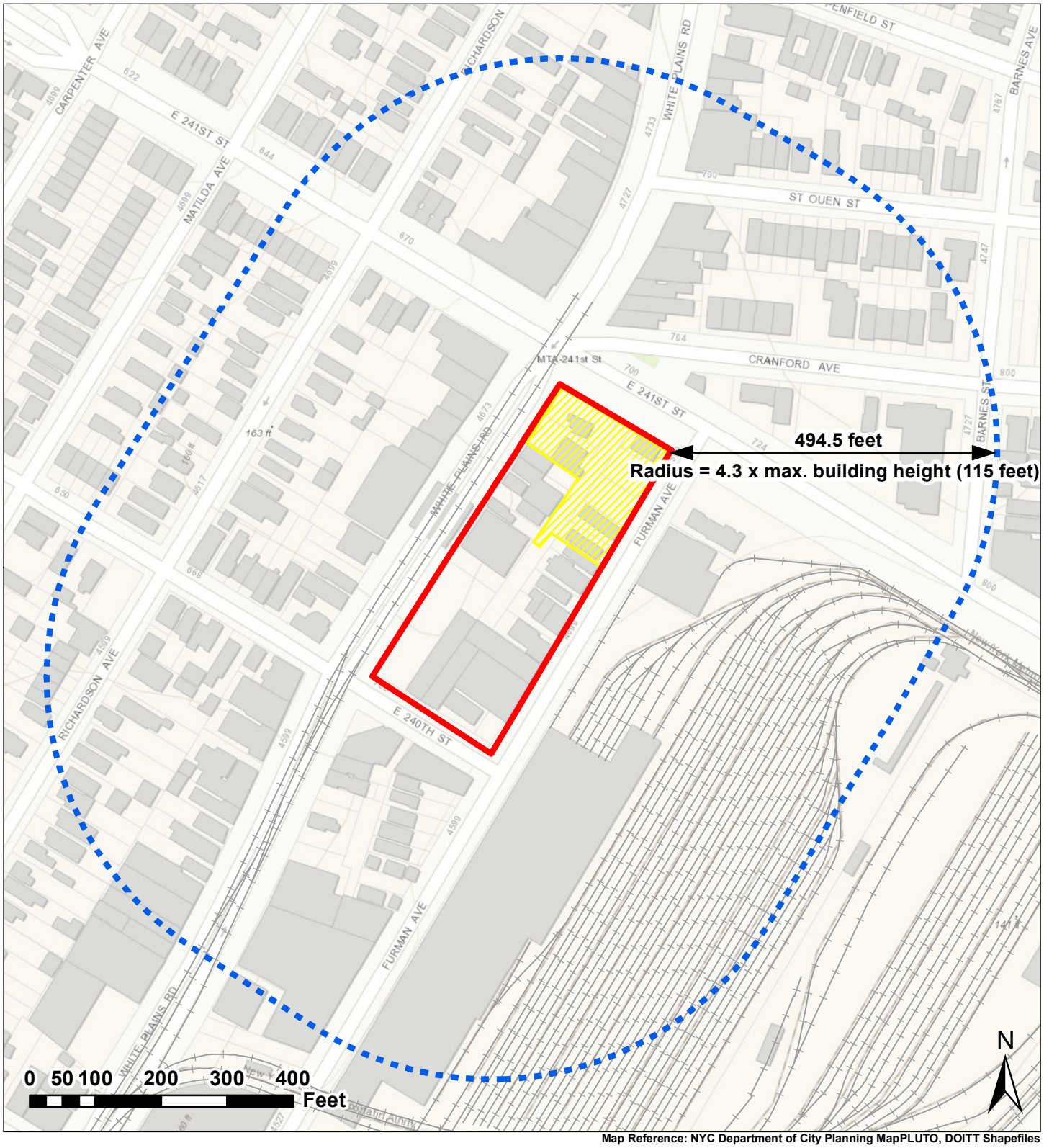
Based on this, the Proposed Action would not result in significant adverse impacts on any sunlight-sensitive resources.

[36] Applies to Inclusionary Housing buildings with "qualifying ground floors.

FIGURE 13

TIER 1 SCREENING ASSESSMENT

EAST 241ST STREET REZONING



Map Reference: NYC Department of City Planning MapPLUTO, DOITT Shapefiles

Directly Affected Area

Proposed Development Site

Shadow Study Area

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ATTACHMENT H. HISTORIC AND CULTURAL RESOURCES

INTRODUCTION

According to the 2014 *CEQR Technical Manual*, an assessment of architectural and archaeological resources is typically required for any project involving new construction, demolition, or any ground disturbance. Historic resources are defined as districts, buildings, structures, sites, and objects of historical, aesthetic, cultural, or archaeological importance. This includes designated New York City Landmarks (NYCL); properties calendared for consideration as landmarks by the New York City Landmarks Preservation Commission (LPC); properties listed on the State/National Register of Historic Places (S/NR) or contained within a district listed on or formally determined eligible for S/NR listing; properties recommended by the New York State Board for listing on the S/NR; National Historic Landmarks (NHL); and properties not identified by one of the programs listed above, but that meet their eligibility requirements.

ASSESSMENT

The Directly Affected Area consists of Block 5087, Lots 1, 9, 12, 13, 14, 16, 18, 20, 22, 24, 28, 33, 40, 48, 53, 54, 55, 58, 65 and 128. All 20 lots have been previously excavated and improved upon. According to the New York City Zoning and Land Use (ZoLa) and CRIS online databases, the Directly Affected Area does not contain any historic resources. Further, according to the State Historic Preservation Office (SHPO) Cultural Resource Information System (CRIS), the Directed Affected Area is not in an Archeologically Sensitive Area

As part of the historic resources assessment, an environmental review request was sent to LPC for comment on the architectural and archaeological significance of the proposed project. LPC determined that there are no architectural or archaeological resources in the Directly Affected Area (Appendix B, “Agency Correspondence”).

Based on this information, the Proposed Action would not result in any potentially significant adverse impacts to historic and cultural resources; therefore, no further analysis is required.

ATTACHMENT I. URBAN DESIGN AND VISUAL RESOURCES

INTRODUCTION

This section assesses the potential effects on urban design and visual resources that could result from the Proposed Action. According to the *CEQR Technical Manual*, a preliminary assessment of urban design and visual resources is appropriate when there is the potential for a pedestrian to observe, from the street level, a physical alteration beyond that allowed by the existing zoning, including projects that result in an increase in built floor area beyond what would be allowed as-of-right or in the No-Action Condition. CEQR requires a detailed analysis for projects that would result in substantial alterations to the streetscape of the neighborhood by noticeably changing the scale of buildings.

METHODOLOGY

Based on the guidelines and definitions in the *CEQR Technical Manual*, this assessment of urban design and visual resources considers the Proposed Action's potential effect on the following elements:

(1) Streetscape and Buildings: Streetscape elements are physical features that make up a streetscape, such as building street walls, fenestration, sidewalks, street trees, street furniture, and other fixtures. A building's street wall forms the most common backdrop for public space and includes a building's size, shape, setbacks, lot coverage, and placement on the zoning lot and block.

(2) Visual Resources: A visual resource is the connection from the public realm to significant natural or built features, including views of the waterfront, public parks, landmark structures or districts, otherwise distinct buildings or groups of buildings, or natural resources.

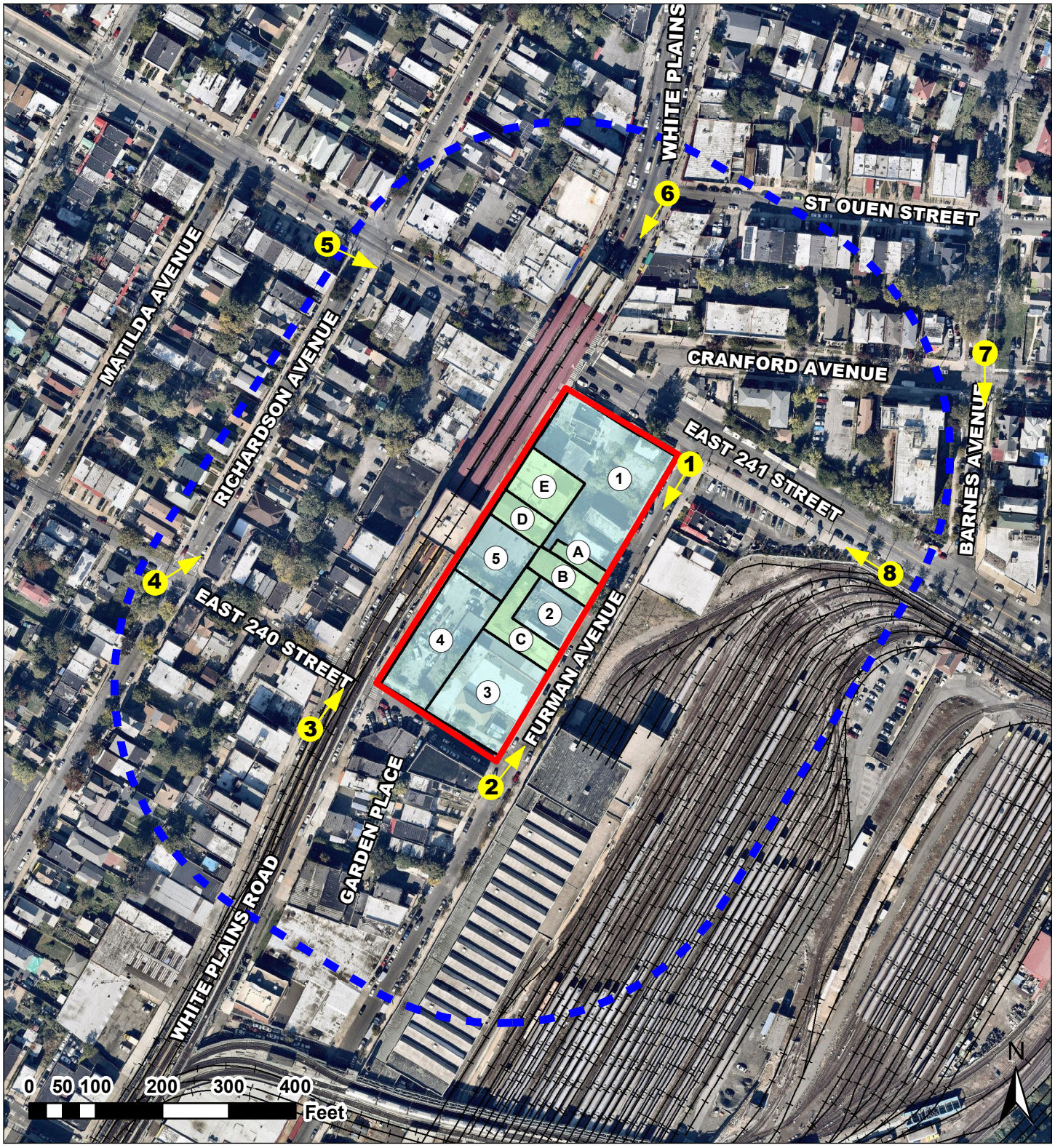
STUDY AREA

According to the *CEQR Technical Manual*, the study area for an urban design analysis is defined as the area where the project may influence land use patterns and the built environment, and is generally consistent with that use for the land use analysis (400-foot radius). However, in many cases where significant visual resources exist, it might be appropriate to look beyond the land use study area to encompass views outside of this area, as is often the case with waterfront sites or sites within or near historic districts. The Directly Affected Area is not adjacent to any significant visual resources; therefore, a 400-foot radius (Study Area) is used to analyze urban design and visual resources (Figure 14).

FIGURE 14

VIEWSHED LOCATION MAP

EAST 241ST STREET REZONING



Directly Affected Area

Study Area (400-foot radius)

Projected Development Sites

Potential Development Sites

1 Photograph Location & Direction

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EXISTING CONDITIONS

Directly Affected Area

The Directly Affected Area is the entirety of Block 5087. The development facilitated by the Proposed Action would occur on five Projected Development Sites with a combined lot area of approximately 77,771 sf. The Directly Affected Area is generally bounded by East 241st Street to the north, Furman Avenue to the east, East 240th Street to the south, and White Plains Road and the elevated No. 2 subway line to the west. Commercial uses are primarily located along White Plains Road and East 241st Street; residential uses including one- to two-family and multifamily residences are primarily on blocks to the northeast and west of the Directly Affected Area; there is also a small cluster of residences on the block south of the Directly Affected Area. The MTA 239th Street Rail Yard is east of the Directly Affected Area.

Streetscape and Buildings

The Directly Affected Area is currently mapped with an M1-1 zoning district, and is occupied by one-story commercial buildings, two- and three-story mixed-use buildings; and surface parking lots along White Plains Road; a commercial and two-story residential building on 240th Street; a one-story automotive storage facility, indoor garages, detached two- and three-story residential buildings on Furman Avenue; and vacant land on 241st Street—the Proposed Development Site (Figures 15 through 20). The surrounding area is mapped with R4A, R5, and R6 zoning districts with a C2-2 overlay along White Plains Road, and include low to medium density, two- and three-story residential and mixed-use buildings, one-story commercial building, and a small number of one- and two-story community facility buildings (Figure 18). Semi-detached one- and two-family homes are found northeast of the intersection of East 241st Street and Furman Avenue (Figure 21). Sidewalks line the perimeter of the block; however, nearly the entire block is defined by discontinuous streetwalls and an overall lack of pedestrian-friendly amenities and design.

Open Space and Visual Resources

The 400-foot Study does not include any open space or visual resources.

ASSESSMENT

For purposes of the Urban Design and Visual Resources assessment, full build-out of the five Projected Development Sites is contemplated (five, 115-foot tall buildings). This reasonable worst case development scenario would include approximately 390,230 gsf of residential space on Projected Development Sites 1 through 5; approximately 73,344 gsf of ground floor commercial space on Projected Development Sites 1 through 5; approximately 16,862 gsf of community facility space on Projected Development Sites 3 and 4; and approximately 46,190 gsf of parking on Sites 1, 3, and 4 (approximately 102 spaces). The Proposed Development on Projected Development Site 1 would consist of a 9-story, approximately 207,925 gsf mixed-use building, which would include (i) approximately 159,875 gsf of residential space (186 dwelling units); (ii) approximately 24,972 gsf of ground floor retail space along East 241st Street; and (iii) approximately 23,078 gsf of below-grade parking (47 spaces)

Streetscape and Buildings

The proposed R7D zoning district is a contextual district that limits the building height to a maximum of 100 feet and the building base height to between 60 feet and 85 feet. With the MIH FAR bonus, the maximum permitted building height would be 115 feet. In the R7D zoning district, after a maximum building base 85 feet, buildings must set back 10 feet on a wide street and 15 feet on a narrow street, before rising to the maximum building height of 115 feet.

The Proposed Action would facilitate the creation of continuous streetwalls and enhanced streetscapes along Furman Avenue, White Plains Road, and 241st Street (Figures 15 through 22). The Proposed Action would provide new ground floor retail and commercial uses that would serve the local population. Additional streetscape improvements would include the planting of street trees or other landscape features pursuant to planting area requirements associated with the Proposed Development Project.[37]

The Proposed Action would result in taller and bulkier than the existing two- and three- story residential buildings that define the surrounding area to the west and north of the Directly Affected Area.

However, as shown in Figures 16, 17, 19, 20, and 22, the Directly Affected Area is buffered from the surrounding residential neighborhood by the MTA Rail Yards to the east and the elevated subway line to the west. Further, although the Proposed Action would result in taller and bulkier than the existing lower density residential neighborhood to the north, this area is generally at a higher elevation than the Directly Affected Area, thus diminishing the differences in building heights at the pedestrian scale. As shown in Figures 14 through 21, new buildings in the With-Action Condition do not disrupt or otherwise adversely affect the overall urban fabric of the neighborhood and, at certain key locations, are not visible at all. Further, the residential uses south of the Directly Affected Area are buffered by commercial uses fronting 240th Street (Figure 16).

Based on this information, the Proposed Action would not result in adverse impacts to either the existing pedestrian experience or the existing lower-density character of the surrounding neighborhood.

Visual and Open Space Resources

A visual resource is the connection from the public realm to significant natural or built features, including views of the waterfront, public parks, landmark structures or districts, otherwise distinct buildings or groups of buildings, or natural resources.[38] There are no views of the waterfront, public parks, landmark structures or districts, natural resources or otherwise distinct buildings or groups of buildings within the Study Area. Therefore, a visual and open space resources assessment is not warranted.

[37] *Zoning Resolution,* amended 2016.
[38] *CEQR Technical Manual,* 2014.

CONCLUSION

The Proposed Action would result in an increase in built floor area and building height beyond what is currently allowed "as-of-right" in the existing M1-1 zoning district. However, as discussed above, the Proposed Action in the Directly Affected Area would enhance the surrounding streetscape by providing new street-level retail use and enlivening the overall pedestrian experience.

Based on this information, the Proposed Action would not result in any significant adverse impacts on urban design and visual resources; therefore, no further analysis is necessary.

FIGURE 15

EAST 241ST STREET REZONING

URBAN DESIGN - VIEW CORRIDOR 1

LOOKING SOUTH ON FURMAN AVENUE AT THE INTERSECTION OF EAST 241ST STREET AND FURMAN AVENUE



NO-ACTION CONDITION



WITH-ACTION CONDITION (Projected Development Sites 1, 2, and 3)

Source: Street images generated through Google Earth and Google Street view between February 22nd to March 2nd 2017

Proposed With-Action Building

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FIGURE 16

EAST 241ST STREET REZONING

URBAN DESIGN - VIEW CORRIDOR 2

LOOKING NORTH ON FURMAN AVENUE AT THE INTERSECTION OF EAST 240TH STREET AND FURMAN AVENUE





Source: Street images generated through Google Earth and Google Street view between February 22nd to March 2nd 2017

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FIGURE 17

EAST 241ST STREET REZONING

URBAN DESIGN - VIEW CORRIDOR 3

LOOKING NORTH ON WHITE PLAINS ROAD AT THE INTERSECTION OF 240TH STREET AND WHITE PLAINS ROAD





Source: Street images generated through Google Earth and Google Street view between February 22nd to March 2nd 2017

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FIGURE 18

EAST 241ST STREET REZONING

URBAN DESIGN - VIEW CORRIDOR 4

LOOKING NORTHEAST AT THE INTERSECTION OF EAST 240TH STREET AND RICHARDSON AVENUE





Source: Street images generated through Google Earth and Google Street view between February 22nd to March 2nd 2017

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FIGURE 19

EAST 241ST STREET REZONING

URBAN DESIGN - VIEW CORRIDOR 5

LOOKING EAST ON EAST 241ST STREET AT THE INTERSECTION OF EAST 241ST STREET AND RICHARDSON AVENUE





Source: Street images generated through Google Earth and Google Street view between February 22nd to March 2nd 2017

Proposed With-Action Building

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FIGURE 20

EAST 241ST STREET REZONING

URBAN DESIGN - VIEW CORRIDOR 6

LOOKING SOUTH ON WHITE PLAINS ROAD AT THE INTERSECTION OF ST. OUEN STREET AND WHITE PLAINS ROAD



NO-ACTION CONDITION



WITH-ACTION CONDITION (Projected Development Sites 1)

Source: Street images generated through Google Earth and Google Street view between February 22nd to March 2nd 2017

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FIGURE 21

EAST 241ST STREET REZONING

URBAN DESIGN - VIEW CORRIDOR 7

LOOKING SOUTHWEST ON BARNES AVENUE AT THE INTERSECTION OF ST. OUEN STREET AND BARNES AVENUE





Source: Street images generated through Google Earth and Google Street view between February 22nd to March 2nd 2017

Proposed With-Action Building

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FIGURE 22

EAST 241ST STREET REZONING

URBAN DESIGN - VIEW CORRIDOR 8

LOOKING WEST ON EAST 241ST STREET AT THE INTERSECTION OF BARNES AVENUE AND EAST 241ST STREET





Source: Street images generated through Google Earth and Google Street view between February 22nd to March 2nd 2017

Proposed With-Action Building

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ATTACHMENT J. HAZARDOUS MATERIALS

INTRODUCTION

The *CEQR Technical Manual* defines hazardous materials as any substances that pose a threat to human health or the environment. Substances that can be of concern include, but are not limited to, heavy metals, volatile and semi volatile organic compounds (VOCs, including petroleum constituents and chlorinated solvents, and SVOCs), methane, polychlorinated biphenyls (PCBs), and hazardous wastes (defined as substances that are chemically active, ignitable, corrosive, or toxic).

The potential for significant impacts from hazardous materials occurs when hazardous materials exist on a site and an action would increase pathways to their exposure to humans and the environment, or an action would introduce new activities or processes using hazardous materials. Potential routes of exposure to hazardous materials can include: direct contact, e.g., contact between contaminated soil and skin (dermal contact); breathing of VOCs or chemicals associated with suspended soil particles (inhalation), swallowing of soil or water (ingestion). Public health may also be threatened when soil vapors migrate through the subsurface and/or along preferential pathways (e.g., building foundations, utility conduits, or duct work) and accumulate beneath a concrete slab or inside a basement, resulting in an explosive, oxygen-deficient, or hazardous atmosphere.[39]

METHODOLOGY

In accordance with *CEQR Technical Manual* guidelines, the first step in evaluating potential presence of hazardous materials on the Proposed Development Site in the Directly Affected Area is to conduct a Phase I Environmental Site Assessment (ESA). Typically, a Phase 1 ESA is conducted to provide a qualitative evaluation of environmental conditions with a particular project area.

In January 2015, a Phase I ESA was prepared for the Proposed Development Site (Block 5087, Lot 1) to identify recognized hazardous substances or petroleum products that indicate an existing release, a past release, or a material threat of a release into structures on the property or into the ground, groundwater, or surface water of the property. The findings and recommendations contained in the Phase I ESA are summarized below.

PHASE I ENVIRONMENTAL SITE ASSESSMENT

The Phase I ESA was prepared by Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. in accordance with the ASTM Practice E1527-13 (Standard Practice for ESA: Phase I ESA Process) and the U.S. Environmental Protection Agency (USEPA) All Appropriate Inquiry (AAI) Rule for the property at 714 East 241st Street and the abutting properties at 4643 Furman Avenue (former lot 3), 4641 Furman Avenue (former lot 6), 4644 White Plains Road (former lot 59), 700 East 241st Street (former lot 62) and 704 East 241st Street (former lot 65), collectively the Phase I Site. The purpose of the Phase 1 ESA was to identify the presence or likely presence, use, or release on the Phase I Site of hazardous substances or petroleum products as

[39] *CEQR Technical Manual,* 2014.

defined in ASTM E1527-13 as a Recognized Environmental Condition (REC). A copy of the Phase I report is included in Appendix C, "Hazardous Materials."

The specific scope of the Phase I ESA included the following:

- Visual inspection of the Phase I Site;
- A review of regulatory records and documents; and
- A review of historical records and documents are performed in accordance with ASTM E1527-13 and the appended Scope and Limitations (Appendix C, "Hazardous Materials").

PHASE I ESA FINDINGS

Recognized Environmental Conditions (RECs)

The Phase I ESA identified the following RECs and Business Environmental Risks (BERs):

REC 1- Historic Site Use

Prior to becoming vacant in December 2014, portions of the Subject Property were extensively used for auto repair and gasoline fueling purposes since at least 1935. Evidence of former auto repair equipment (empty automobile gas tanks, miscellaneous car parts, unlabeled 55-gallon drums, etc.) was apparent throughout the interior and exterior of the Subject Property. Inadvertent releases of solvents, petroleum products, metals, polychlorinated biphenyls (PCB) and/or other chemicals used during historical operations may have adversely impacted soil, groundwater, building components and/or soil vapor. Discoloration, staining, and stressed vegetation were also apparent throughout the interior and exteriors of the Subject Property (primarily former lots 6, 59, 62, and 65), suggesting incidental releases of petroleum products during auto maintenance. The concrete slabs of the buildings were compromised in several areas. Because fractures in the slab provide a conduit for spilled motor oils and/or petroleum products to impact subsurface conditions, former use of the Subject Property constitutes a REC

REC 2 – On-Site Petroleum Bulk Storage

The following evidence of historical petroleum bulk storage was identified:

- One 4,000-gallon gasoline UST (temporarily closed in-place), one 2,000-gallon gasoline UST (temporarily closed in-place), one 550-gallon gasoline UST (closed in-place), and one 550-gallon gasoline UST (closed-removed) had been present on former lot 62 since at least 1935.
- According to historical Sanborn Fire Insurance Maps and New York State Department of Buildings (DOB) records, a gasoline service station historically occupied former lot 59. Additionally, a 1965 Certificate of Occupancy (C of O) indicates that a fire department gasoline tank installation approval for former lot 59. Releases from the suspect tanks may have impacted soil, groundwater, and soil vapor.

- During the site reconnaissance, a 275-gallon heating oil AST was observed in the basement of former lot 1. The AST was observed to be in good condition with no staining or visual impacts to the floor below the AST; however, a brick-lined floor sump with a dirt base was observed below the AST. Because the floor sump provides a conduit for spilled heating oil to impact subsurface conditions, the heating oil AST and floor sump constitutes a REC.

The 4,000-gallon gasoline UST and 2,000-gallon gasoline UST located on former lot 62 and the 275-gallon heating oil AST located of former lot 1 were temporarily closed in-place on 22 December 2014. Based on the historic usage and presumed age of the tanks, the known and suspect historical petroleum storage tanks are a REC.

REC 3 – New York State Department of Environmental Conservation (NYSDEC) Spill No. 1214956

On 25 January 2013, during a Phase II subsurface investigation, the NYSDEC issued Spill Number 1214956 to former lot 62 when elevated concentrations of petroleum volatile organic compounds (VOCs) were identified in soil and groundwater in the vicinity of the gasoline USTs located in former lot 62. This spill case is currently open.

REC 4 – Current and Historical Use of Surrounding Properties

Current and historical uses of surrounding properties include:

- Four drycleaners (4811 White Plains Road, 4701 White Plains Road, 4706 White Plains Road, and 4707 White Plains) with years of operation ranging from 1949 to present. Each of the four drycleaners is located up-gradient of the Subject Property;

- Nine auto repair facilities (730 East 241st Street, 740 East 241st Street, 750 East 241st Street, 712 East 240th Street, 4580 White Plains Road, 4642 White Plains Road, 4609 Furman Avenue, 4619 Furman Avenue, and 4640 Furman Avenue) with years of operation ranging from 1935 to 2007. The auto repair facilities are located cross-gradient and down-gradient of the Subject Property;

- Two gasoline filling stations (740 East 241st Street and 750 East 241st Street) with years of operation ranging from 1935 to 1993. The former filling stations are located cross-gradient of the Subject Property;

- New York City Transit System Rail Yard (located approximately 150 feet southeast and cross-gradient of the Subject Property) with years of operation ranging from 1918 to 2007.

Potential petroleum and solvent releases associated with the historical and current surrounding property uses may have adversely impacted groundwater and/or soil vapor at the Subject Property and is considered a REC.

Historic RECs (HRECs) or Controlled RECs (CRECs) were not identified on the Subject Property or the immediately adjacent properties.

BER 1 – Historic Urban Fill Material

According to the January 2013 Phase II subsurface investigation, historic fill material consisting of brown silty-sand with brick was encountered between 1 and 3 feet below ground surface (bgs) across the subject property. The presence of impacted fill will require implementation of soil handling and management procedures during site redevelopment to address excavation, re-use, handling, and offsite disposal of this material.

PHASE I ESA CONCLUSION

The Proposed Development Site previously contained multiple fuel storage tanks, including four USTs located on 700 East 241st Street, one UST located on 4644 White Plains Road and one AST located on 741 East 241st Street. Of the four tanks at 700 East 241st Street, two were temporarily closed in-place, one was closed in-place and one was closed and removed. No additional information was available regarding the UST at 4644 White Plains Road. One AST located on 741 East 241st Street was temporarily closed in place. Leakages from the tanks and past historical operations within the Proposed Development Site have the potential to result in soil and groundwater contamination as well as vapor intrusion; therefore, a subsurface investigation (Phase II Environmental Site Investigation (ESI)) would be needed in order to determine the condition of soil quality and soil vapor in the vicinity of these tanks and on the Proposed Development Site.

PHASE II ENVIRONMENTAL SITE INVESTIGATION (ESI)

A Phase II ESI was prepared by Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. for the property located at 714 East 241st Street. A Phase II Subsurface Investigation was performed on January 15th 2013, followed by a field investigation on January 23rd 2015. The Phase II Subsurface Investigation consisted of a geophysical survey, installation of nine (9) soil borings and six (6) temporary groundwater wells and the collection of 10 grab samples and six (6) groundwater samples. The Field Investigation consisted of a geophysical survey, installation of six (6) soil borings and four (4) temporary groundwater monitoring wells and the collection of 12 grab soil samples and five (5) groundwater samples.

The Phase II Site Investigation Report provides the following conclusions and recommendations:

- A layer of historic fill composed of varying amounts of sand and gravel, and fragments of brick, glass, wood, and coal ash was identified throughout the Subject Property with thicknesses ranging from approximately 3 to 4 feet. This fill layer contained SCO exceedances (SVOCs, metals, and pesticides) throughout the Proposed Development Site.

- The geophysical survey identified a large subsurface anomaly indicative of an UST on the northwestern edge of the Subject Property along the sidewalk of White Plains Road. The previously unidentified anomaly measured approximately 20 feet in length and 8 feet in width and was observed at approximately 4 feet bgs. The location of the anomaly is shown in Figure 2 of the Phase II Report. The geophysical survey also confirmed the locations of site utilities as well as the three previously known USTs located on the northern portion of the Subject Property.

- One of the seven soil borings (SB-3) was installed next to the suspected UST along White Plains Road that was discovered during the geophysical survey (see Figure 2 of the Phase II Report). Petroleum-like odors and PID readings (up to 1,095 ppm) were observed in the soil boring at depths of approximately 10 to 16 feet bgs. Groundwater analytical sampling results from this location confirmed the presence of a petroleum contamination. To a lesser degree, olfactory evidence of petroleum-like odors was also observed in borings SB-1 through SB-3 (with PID reading up to 17.8 ppm).

- The approximate depth to groundwater is estimated at 9 to 11 feet bgs and, based on local topography, is expected to flow to the south-southwest. No free product was identified during this Limited Phase II ESI; however, a petroleum-like odor was detected during groundwater purging and sampling activities at SB-3 (MW) and groundwater analytical sampling results from this location, confirmed the presence of a petroleum contamination.

The conclusions and recommendations of the Phase II ESI, along with a Remedial Action Plan (RAP) and Construction Health and Safety Plan (CHASP) would be submitted, as appropriate, to the New York City Department of Environmental Protection (DEP) for review and approval prior to any ground disturbance. If petroleum storage tanks are encountered at the site and it is determined that remedial measures would likely be required to mitigate contaminated soils, a RAP and CHASP should be submitted to the New York City Office of Environmental Remediation (OER) along with the Phase II Report. Prior to construction on the site, petroleum tanks should be properly closed and removed, along with contaminated soil in accordance with applicable regulations, including DEC spill report and registration requirements. Construction plans, to the extent they are known, should be referenced in, and attached to, the Phase II ESI Work Plan and subsequent reports.

HAZARDOUS MATERIALS SCREENING

Projected and Potential Development Sites

The Reasonable Worst Case Development Scenario identified five (5) Projected Development Sites and five (5) Potential Development Sites in the Directly Affected Area. A preliminary screening analysis, consisting of the visual and/or historical identification of any past or current uses at the Project and Potential development sites and surrounding lots is provided below. Based on the findings of the preliminary screening analysis, all Projected and Potential development sites possess, in some capacity, a concern regarding their environmental conditions. As a result, under the Proposed Action, all privately held Projected and Potential development sites would include (E) designations requiring that a hazardous materials assessment be performed including, but not limited to, a Phase I ESA and any subsequent appropriate assessment or action. With the preventative and remedial measures outlined in the (E) designation, it is anticipated the Proposed Action would not result in significant adverse impacts from hazardous materials.

CONCLUSION

Institutional controls (specifically, (E) designations) would be used to require pre- and post-development procedures to mitigate or eliminate the potential for significant adverse impacts related to hazardous materials as a result of construction or operation of the Proposed

Development. With the above measures in place, the Proposed Action would not result in any significant adverse hazardous materials impacts. Therefore, no further analysis is warranted.

Table J-1: Environmental Assessment and (E) Designation Details - Projected and Potential Development Sites

Site No.	Block	Lot	Address	Onsite Environmental Concern	Environmental Concern within 400-ft Buffer	Recommendations
Projected Development Sites						
1	5087	1	714 East 214st Street	UST, Gs, A	Y	E
	5087	9	4637 Furman Avenue	I	Y	E
	5087	12	4629 Furman Avenue		Y	E
2	5087	16	4621 Furman Avenue		Y	E
		18	4619 Furman Avenue	UST, A	Y	E
3	5087	22	4611 Furman Avenue	I	Y	E
		24	4609 Furman Avenue	I	Y	E
		28	4601 Furman Avenue		Y	E
		33	711 East 240th Street		Y	E
		128	4601 Furman Avenue		Y	E
4	5087	40	4600 White Plains Road	A	Y	E
5	5087	48	4626 White Plains Road		Y	E
Potential Development Sites						
A	5087	13	4627 Furman Avenue		Y	E
	5087	65	N/A Furman Avenue		Y	E
B	5087	14	4625 Furman Avenue		Y	E
		65	N/A Furman Avenue		Y	E
C	5087	20	4615 Furman Avenue		Y	E
		65	N/A Furman Avenue		Y	E
D	5087	53	4632 White Plains Road		Y	E
		54	4634 White Plains Road		Y	E
E	5087	55	4636 White Plains Road		Y	E
		58	4640 White Plains Road	UST	Y	E

Notes:
A= Auto repair/ service
E= (E) Designation
Gs= Gas Station
I= Industrial Use
N= No
UST= Underground Storage Tank
Y= Yes

The requirements of **(E) Designation (E-484)** would be as follows:

Task 1:

The applicant submits to OER, for review and approval, a Phase 1A of the site along with a soil and groundwater testing protocol, including a description of methods and a site map with all sampling locations clearly and precisely represented.

If site sampling is necessary, no sampling should begin until written approval of a protocol is received from OER. The number and location of sample sites should be selected to adequately characterize the site, the specific source of suspected contamination (i.e., petroleum based contamination and non-petroleum based contamination), and the remainder of the site's condition. The characterization should be complete enough to determine what remediation strategy (if any) is necessary after review of sampling data. Guidelines and criteria for selecting sampling locations and collecting samples are provided by OER upon request.

Task 2:

A written report with findings and a summary of the data must be submitted to OER after completion of the testing phase and laboratory analysis for review and approval. After receiving such results, a determination is made by OER if the results indicate that remediation is necessary. If OER determines that no remediation is necessary, written notice shall be given by OER.

If remediation is indicated from the test results, a proposed remediation plan must be submitted to OER for review and approval. The applicant must complete such remediation as determined necessary by OER. The applicant should then provide proper documentation that the work has been satisfactorily completed.

An OER-approved construction-related health and safety plan would be implemented during evacuation and construction and activities to protect workers and the community from potentially significant adverse impacts associated with contaminated soil and/or groundwater. This plan would be submitted to OER for review and approval prior to implementation.

With the proposed (E) Designation **(E-484)** in place, the Proposed Actions would not result in any potentially significant adverse impacts related to hazardous materials; therefore, no further analysis is necessary.

ATTACHMENT K. WATER AND SEWER INFRASTRUCTURE

INTRODUCTION

New York City's water and sewer network is fundamental to the operation, health, safety, and quality of life of the City and its surrounding environment, and it must be sized to fit the users and surface conditions in order to function adequately. Ensuring these systems have adequate capacity to accommodate land use or density changes and new development is critical to avoid environmental and health problems such as sewer back-ups, street flooding, or pressure reductions.[40]

The purpose of a water and sewer infrastructure analysis is to assess whether a proposed project may adversely affect the City's water distribution or sewer system and, if so, assess the effects of such a project to determine whether its impact will be significant.[41] According to *CEQR Technical Manual* guidelines, a preliminary water infrastructure analysis is needed if the project would result in an exceptionally large demand for water (*e.g.,* those that are projected to use more than one million gallons per day (mgd) or is located in an area that experiences low water pressure. A preliminary sewer infrastructure analysis is needed if the project is located in a combined sewer area and would exceed 400 incremental residential units or 150,000 incremental square feet (sf) or more of commercial, public facility, and institution and/or community facility space in the Bronx, Brooklyn, Staten Island, or Queens.

The Directly Affected Area is the entirety of Block 5087, which is served by the Hunts Point Waste Water Treatment Plant (WWTP) and is within the Hutchinson River drainage basin. The Proposed Action would facilitate approximately 390,230 gsf of residential use (416 dwelling units), 73,344 gsf of commercial use, 16,862 gsf of community facility use and 46,190 gsf of parking (approximately 102 spaces). With-Action development would occur on five Projected Development Sites with a combined lot area of approximately 77,833 sf.

CONCLUSIONS

Water Supply

The With-Action Condition is anticipated to require approximately 203,715 gallons per day (gpd) of water, which is an approximately 190,228 gpd increase over the No-Action Condition. This incremental demand of 190,228 gpd of water would be distributed over an approximately one-block area and represents less than 1 percent of New York City's water reservoir capacity of 550 billion gallons.[42] Because the incremental water demand created by the Proposed Action would be less than one million gpd and would not be in an area that experiences low water pressure, the Proposed Action is not anticipated to result in a significant adverse impact to New York City's water supply or water distribution infrastructure.

[40] *CEQR Technical Manual, 201.*
[41] Ibid.
[42] Ibid.

Wastewater Treatment

The Hunts Point Waste Water Treatment Plant (WWTP) is designed to treat approximately 200 mg per day of wastewater. Based on water generation and sewage generation rates in Table 13-2 of the *CEQR Technical Manual*, the With-Action Condition would generate approximately 0.19 mgd of wastewater, which is an approximately 0.18 mgd increase over the No-Action Condition. This incremental generation of 0.18 mgd of wastewater represents approximately 0.01 percent of the Hunts Point WWTP wastewater capacity. Because the incremental wastewater generated by the Proposed Action would be negligible in comparison to the Hunts Point WWTP capacity, the Proposed Action is not anticipated to result in a significant adverse impact to the City's wastewater treatment infrastructure.

Stormwater and Drainage Management

The Directly Affected Area is located within subcatchment area HP-024 of the Hunts Point WWTP. Compared to existing stormwater volumes flowing to the combined sewer system, the development in the With-Action Condition would result in a potential increase during rainfall events of 0.10 million gallons (mg) in subcatchment area HP-024.

If increased combined flows to the City's combined sewer system occur during storm events that surpass the design capacity, the potential excess combined flow would be discharged in the Upper East River through combined sewer outfalls (CSOs). The incremental stormwater flows created by the Proposed Action would not cause the Hunts Point WWTP to exceed its operational capacity; therefore, the Proposed Action is not anticipated to result in a significant adverse impact to New York City's stormwater infrastructure or treatment facilities.

METHODOLOGY

A preliminary water infrastructure analysis is needed if the project would result in an exceptionally large demand for water (*e.g.* those that are projected to use more than one million gallons per day) or is located in an area that experiences low water pressure (*e.g.* areas at the end of the water supply distribution system).[43] Because the Directly Affected Area is not located within an area that experiences low water pressure, and would not incrementally require one million gallons of water per day or more, a preliminary water infrastructure analysis is not necessary.

A preliminary sewer infrastructure analysis is needed if the project is located in a combined sewer area and would exceed 400 residential units or 150,000 square feet (sf) of commercial, public facility, and institution and/or community facility space or more in the Bronx, Brooklyn, Staten Island or Queens.[44] The Directly Affected Area is located within an area served by combined sewers, and the Proposed Action would result in a net increase of approximately 405 dwelling units; therefore, a preliminary sewer infrastructure analysis is necessary.

A preliminary sewer infrastructure analysis of City WWTPs and collection facilities is performed by using rates defined in Table 13-2 of the *CEQR Technical Manual* to determine the existing sanitary

[43] *CEQR Technical Manual,* 2014.
[44] Ibid.

flows or treated wastewater flows resulting from the area of the proposed project[45]. Using Table 13-2 in the *CEQR Technical Manual*, the anticipated sanitary flows or treated wastewater flows should be determined for the No-Action and With-Action conditions. The effect of the incremental sanitary flows or treated wastewater flows should be considered regarding the capacity of the applicable WWTP.

A preliminary sewer infrastructure analysis of sanitary and stormwater drainage is performed by using the New York City Department of Environmental Protection (DEP) Flow Calculation Matrix to determine the changes to surfaces and drainage patterns in the Existing and With-Action scenarios. The Flow Calculation Matrix is used to determine the volume and peak discharge rates of stormwater expected from the site(s) in the With-Action scenario for a variety of rainfall events. If the matrix analysis shows either (i) an increase of 2 percent or more over existing conditions for dry and wet weather flows from the proposed site for any rainfall event that would discharge to a drainage area of concern; or (ii) an increase of 5 percent or more over existing conditions for dry and wet weather flows from the proposed project site for any rainfall event in all other drainage areas, then the matrix should be reviewed by DEP. If the matrix indicates the increase in dry and wet weather flows would not surpass these thresholds, no further analysis is needed.[46]

The preliminary sewer infrastructure analysis in this chapter will describe:

- Existing water and sewer infrastructure serving the Proposed Development Project and the Study Area.
- Existing water demand and wastewater generation as well as existing volume and peak stormwater discharge rates;
- Anticipated water demand and wastewater generation in the No-Action Condition; and
- Anticipated water demand and wastewater generation in the With-Action Condition, as well as the anticipated volume and peak stormwater discharge rates.

EXISTING CONDITIONS

Water Supply

Most of New York City obtains water from three (3) surface water supply systems, operated by DEP, that form a network of reservoirs, aqueducts, and tunnels extending as far as 125 miles north of the City. The watersheds of the three (3) systems cover almost 2,000 square miles, with 19 reservoirs and three (3) controlled lakes, which have a storage capacity of 550 billion gallons. Two of the three surface water systems, the Delaware and Catskill systems, collect water from watershed areas in the Catskill Mountains and deliver it to the Hillview Reservoir in Yonkers. The third surface water system, the Croton system, collects water from watershed areas in Dutchess, Putnam, and Westchester Counties and delivers it to the Jerome Park Reservoir in the Bronx. The

[45] *CEQR Technical Manual, 2014*
[46] *ibid*

water flows to the City through aqueducts, reaching most consumers by gravity alone; only some four percent of the City's water must be pumped to its final destination.[47]

Within the City, a grid of underground distribution mains brings water to consumers. Large mains—up to 96 inches in diameter—feed smaller mains (such as 20, 12 and eight (8) inch mains) that distribute water to individual locations. These mains also provide water to fire hydrants along many of the City's streets. Water pressure throughout the City water supply system is controlled by pressure regulators.[48]

Table K-1 shows the existing uses on the five Projected Development Sites in the Directly Affected Area and their associated water consumption and wastewater generation rates, based on Table 13-2 in the *CEQR Technical Manual*. Based on the water consumption and wastewater generation rates, the existing uses require a cumulative water demand of approximately 13,487 gpd, including and approximately 8,029 gpd of wastewater generation.

Wastewater Treatment

Sewers beneath the City's streets collect sewage from buildings as well as stormwater from buildings and catch basins in streets. Collection sewers can be ten inches to two feet in diameter on side streets, and larger in diameter under other roadways. They connect to trunk sewers, generally five to seven feet in diameter, which bring the sewage to interceptor sewers. These large interceptor sewers (often 11 or 12 feet in diameter) bring the wastewater collected from the various smaller mains to the WWTPs for treatment.[49]

During dry weather, combined sewers function as sanitary sewers, conveying all flows to the WWTPs for treatment. During wet weather, however, large volumes of rainfall runoff can enter the system from building connections and through catch basins along the City's streets. If this water were conveyed to the WWTPs, it would exceed their design capacity; the plants are designed to handle only twice their average design dry-weather flow. To avoid flooding the WWTPs, "regulators" are built into the combined sewers to act as relief valves. These are chambers set to divert two times the average design dry-weather flow into the interceptor; during storms, if a greater amount of combined flow reaches the regulator, the excess is directed to outfalls into the nearest waterway (*e.g.,* the Hudson River, East River). During such overflow periods, a portion of the sanitary sewage entering, or already in, the combined sewers discharges untreated into the waterway along with stormwater and debris washed from streets. This untreated overflow is known as CSO.[50]

Each of the City's WWTPs is regulated through a State Pollutant Discharge Elimination System (SPDES) permit issued by the New York State Department of Environmental Conservation (NYSDEC) to ensure that water quality in the receiving water body is not adversely affected by WWTP effluent. The SPDES permits specify the maximum average monthly dry-weather flow in mgd (based on the quantity of wastewater that the plants can adequately treat), and such effluent parameters as (i) the minimum percent (85 percent) of biological oxygen demand (BOD) that must

[47] *CEQR Technical Manual,* 2014.
[48] Ibid.
[49] Ibid.
[50] *CEQR Technical Manual,* 2014.

be removed (BOD, a measure of the amount of oxygen consumed in decomposition of organic matter, is an indicator of the quantity of organic pollution in wastewater); (ii) the minimum percent of suspended solid loading that must be removed (85 percent); (iii) the maximum concentrations of suspended solids, fecal coliform, settleable solids, and other pollutants; and (iv) the range of acceptable pH levels. The SPDES permits also stipulate monitoring requirements for the regulated parameters, as well as for odor control, and require infiltration/inflow assessments and correction programs if the plants reach a certain percent of their permitted capacity.[51]

Table K-1: Existing Water Consumption & Waste Generation

Land Use	Water Consumption & Wastewater Generation Rates	Area/Dwelling Units	Water Demand (gpd)[1] (Domestic + A/C)	Wastewater Generation (gpd)
Residential	247 gpd/ DU[2]	11 DU (9,477 sf)	4,328	2,717
Retail	Domestic 0.24 gpd/sf A/C 0.17 gpd/sf	11,224 sf	4,602	2,694
Community Facility[3]	Domestic 0.10 gpd/sf A/C 0.17 gpd/sf	0 sf	0	0
Industrial/Warehouse/ Auto-Related Garage	Domestic 10,000 gpd/acre 0.17 gpd/sf	11,405 sf	4,557	2,618
Total Water Demand			**13,487**	
Total Wastewater Generation			**8,029**	

***Source**: Consumption rates obtained from the 2014 CEQR Technical Manual Table 13-2, "Water Usage and Sewage Generation Rates for Use in Impact Assessment," unless otherwise noted.*
***Notes**:*
[1] Gallons per day (gpd).
[2] Approximately 2.47 residents based on average household size of renter-occupied unit for Bronx Census Tracks 434.
[3] Same rate as commercial/ office. Includes house of worship, day care, medical office, adult learning center, and community center uses.

According to NYSDEC, Hunts Point WWTP, the municipal sewage treatment plant, is located at Ryawa Ave, Bronx, NY 10474. According to the New York City's Wastewater Treatment System report, the catchment area for this WWTP is approximately 16,664 acres, servicing the eastern section of the Bronx. The Hunts Point WWTP plant has been operating since 1952 and maintains a 200 mg per day design capacity, which serves a population of approximately 684,569.

The quality of the effluent from the Hunts Point WWTP is regulated through a SPDES permit issued by the NYSDEC. The permit specifies the maximum allowable limit for multiple effluent parameters including suspended solids, fecal coliform bacteria, and other pollutants.

The Projected and Potential Development sites are all located within one subcatchment area, HP-024, which flows to the Hunts Point WWTP.

Stormwater and Drainage Management

Stormwater runoff is generated by rainwater collecting across a variety of surfaces and built structures. The volume of runoff generated varies depending on the type of land cover, which can either be pervious or impervious. DEP defines runoff coefficients to correlate with the pervious or impervious qualities of the land cover. Grass and softscape have a runoff coefficient of 0.20 because

[51] Ibid.

their ability to absorb a portion of the rainfall, whereas roof area and pavement have much higher runoff coefficients of 1.00 and 0.85 respectively, due to their inability to absorb or sequester rainfall.

The majority of the Projected and Potential Development Sites are currently occupied by buildings or paved impervious surfaces. Currently, the total lot area of the Projected and Potential Development Sites is approximately 77,833 sf.

As shown in Table K-2, the total lot area of the Projected and Potential Development Sites comprises approximately 51 percent roof area, 44 percent pavement and walkways, and 5 percent grass and softscape. The existing weighted runoff coefficient for subcatchment area HP-024 is 0.89.

Table K-2: Existing Projected and Potential Development Sites Runoff Coefficients

Subcatchment Area	Surface Type	Roof	Pavement and Walks	Grass and Softscape	Total
HP-024	Area (%)	51	44	5	100
	Surface Area (sf)	39,379	34,567	3,887	77,883
	Runoff Coefficient[1]	1.00	.85	.20	.89

***Source**: Department City Planning (DCP) Footprint and PLUTO data; aerial photographs.*
***Notes**:*
[1] Runoff coefficients for each surface type as per Department of Environmental Protection (DEP).

As shown in Table K-3 standard DEP runoff coefficients were used to determine the approximate amount of stormwater runoff generated during a variety of rainfall events over specified periods of time ranging from 3.8 to 19.5 hours. For storm events with up to 2.5 inches of rain, the Projected and Potential Development Sites within subcatchment area HP-024 may generate up to 0.11 million gallons of stormwater. Depending on intensity and continuity during storm events with up to 2.5 inches of rainfall, the total volumes (stormwater and sanitary sewage) flowing to the combined sewer system range from 0.00 to 0.12 mg in subcatchment area HP-024.

Table K-3: Existing Combined Stormwater Runoff and Wastewater Generation from the Projected and Potential Development Sites

Subcatchment Area	Rainfall (inches)	Duration (hours)	Total Area (acres)	Weighted Runoff Coefficient[1]	Stormwater Runoff (mg)	Sanitary to CSS (mg)[2]	Total Volume to CSS (mg)
HP-024	0.00	3.80	1.79	.89	0.00	0.00	0.00
	0.40	3.80			0.02	0.00	0.02
	1.20	11.30			0.05	0.00	0.06
	2.50	19.50			0.11	0.01	0.12

***Source**: Calculated using DEP runoff coefficients.*
***Notes**:*
[1] Refer to Table K-2.
[2] Derived from 2014 CEQR Technical Manual Table 13-2.

ASSESSMENT

No-Action Condition

As described in Attachment A, "Project Description," the No-Action Condition would remain the same as under existing conditions. The Directly Affected Area would continue comprise 11 dwelling units (DUs), approximately 11,224 sf of commercial/office use, and approximately 11,405 sf of industrial/warehouse/auto related use.

Water Supply

No changes in use or development are anticipated on any of the Projected or Potential Development Sites in the No-Action Condition; therefore these uses would continue to require a cumulative water demand of approximately 13,487 gpd.

Wastewater Treatment

No changes in use or development are anticipated on any of the Projected or Potential Development Sites in the No-Action Condition; therefore, wastewater generated on the five Projected Development Sites would continue to total approximately 8,029 gpd.

Stormwater and Drainage Management

In the No-Action Condition, stormwater runoff would continue to be captured and conveyed through the existing combined sewer system to be processed at the Hunts Point WWTP. Because no development is anticipated on any of the Projected or Potential Development Sites in the No-Action Condition, a significant change to stormwater runoff as compared to existing conditions is not anticipated.

With-Action Condition

The With-Action Condition would result in approximately 390,230 sf of residential use (approximately 416 dwelling units); 73,344 sf of commercial uses, and 16,862 sf of community facility use. This represents a net increase over the No-Action Condition of 380,753 sf of residential use, 62,120 sf of commercial use, and 16,862 sf of community facility use.

Water Supply

As shown in Table K-4, the With-Action Condition is anticipated to require approximately 203,715 gpd of water, which is an approximately 190,228 gpd increase over the No-Action Condition. This incremental demand of 190,228 gpd of water is less than the one mgd that necessitates a detailed analysis of water supply. In addition, the incremental water demand would not occur in an area that experiences low water pressure. Based on this information, a further assessment of the Proposed Action's effect on water supply is not necessary; therefore, the Proposed Action is not anticipated to result in a significant impact to New York City's water supply or water distribution infrastructure.

Table K-4: With-Action Water Consumption & Waste Generation

Land Use	Water Consumption & Wastewater Generation Rates	Area/ Dwelling Units	Water Demand (gpd)[1] (Domestic + A/C)	Wastewater Generation (gpd)
Residential	247 gpd/ DU[2]	416 DU (390,230 sf)	169,091	102,752
Retail	Domestic 0.24 gpd/sf A/C 0.17 gpd/sf	73,344 sf	30,071	17,603
Community Facility[3]	Domestic 0.10 gpd/sf A/C 0.17 gpd/sf	16,862 sf	4,553	1,686
Industrial/Warehouse/Auto-Related Garage	Domestic 10,000 gpd/acre 0.17 gpd/sf	0 sf	0	0
Total Water Demand			**203,715**	
Total Wastewater Generation			122,041	

***Source**: Consumption rates obtained from the 2014 CEQR Technical Manual Table 13-2, "Water Usage and Sewage Generation Rates for Use in Impact Assessment," unless otherwise noted.*
***Notes**:*
[1] Gallons per day (gpd).
[2] Approximately 2.47 residents based on average household size of a renter-occupied unit for Bronx Census Track 434.
[3] Same rate as commercial/ office. Includes house of worship, day care, medical office, adult learning center, and community center uses.

Wastewater Treatment

The wastewater generated from the development in the With-Action Condition would continue to be treated by the Hunts Point WWTP, which has an operating capacity of approximately 200 mg per day.

The With-Action Condition would generate approximately 122,041 gpd of wastewater, which represents an approximately 114,012 gpd increase over the No-Action Condition. The 114,012 incremental gpd of wastewater generated by the development in the With-Action Condition would represent less than approximately 0.01 percent of Hunts Point WWTP's total capacity.

Because the incremental wastewater generated by the Proposed Action would be negligible in comparison to the Hunts Point WWTP capacity, no further analysis regarding the Proposed Action's effect the City's wastewater treatment infrastructure is necessary.

Stormwater and Drainage Management

The With-Action Condition would result in an increase of impervious surface in subcatchment areas HP-024. The increase of impervious surface in subcatchment area HP-024 is anticipated because the development in the With-Action Condition would improve underutilized or undeveloped lots with new, less pervious surfaces. As shown in Table K-5, for the purposes of this assessment it is anticipated that the Projected and Potential Development Sites within subcatchment area HP-024 would be comprised of approximately 100 percent roof area, 0 percent pavement and walkways, and 0 percent grass and soft scape. Assuming the Projected and Potential Development Sites are entirely covered with roof area will yield the highest possible runoff coefficient for the With-Action Condition, therefore maximizing the increment and creating the most conservative estimates.

The With-Action Condition would improve multiple previously undeveloped lots with structures that would result in a greater runoff coefficient for subcatchment area HP-024. As shown in Table

K-5, the weighted runoff coefficients for the Projected and Potential Development Sites would be approximately 1.00 in subcatchment area HP-024.

Table K-5: With-Action Projected and Potential Development Sites Runoff Coefficients

Subcatchment Area	Surface Type	Roof	Pavement and Walks	Grass and Softscape	Total
HP-024	Area (%)	100[2]	0	0	100
	Surface Area (sf)	77,833	0	0	77,833
	Runoff Coefficient[1]	1.00	0.85	0.20	1.00

***Source**: Department City Planning (DCP) Footprint and PLUTO data; aerial photographs.*
***Notes**:*
[1] Runoff coefficients for each surface type as per Department of Environmental Protection (DEP).
[2] Assumed 100% Roof Area to yield the highest possible runoff coefficient and therefore the most conservative estimate.

As shown in Table K-6, combined stormwater runoff and wastewater generation was calculated using standard DEP runoff coefficients to determine the approximate amount of stormwater runoff generated during a variety of rainfall events over specified periods of time ranging from 3.8 to 19.5 hours. For storm events with up to 2.5 inches of rain, the development on the Projected and Potential Development Sites would generate up to 0.12 mg of stormwater runoff within subcatchment area HP-024.

Depending on intensity and continuity during storm events with up to 2.5 inches of rainfall, the total volumes (stormwater and sanitary sewage) flowing to the combined sewer system range from 0.02 to 0.22 mg in subcatchment area HP-024.

Table K-6: With-Action Combined Stormwater Runoff and Wastewater Generation from Projected and Potential Development Sites

Subcatchment Area	Rainfall (inches)	Duration (hours)	Total Area (acres)	Weighted Runoff Coefficient[1]	Stormwater Runoff (mg)	Sanitary to CSS (mg)[2]	Total Volume to CSS (mg)
HP-024	0.00	3.80	1.79	1.00	0.00	0.02	0.02
	0.40	3.80			0.02	0.02	0.04
	1.20	11.30			0.06	0.06	0.12
	2.50	19.50			0.12	0.10	0.22

***Source**: Calculated using DEP runoff coefficients.*
***Notes**:*
[1] Refer to Table K-3.
[2] Derived from 2014 CEQR Technical Manual Table 13-2.

As shown in Table K-3, combined stormwater flows are 0.12 mg in subcatchment area HP-024. As shown in Table K-6, combined stormwater flows in the With-Action Condition would increase by 0.10 mg over existing conditions to 0.22 mg in subcatchment area HP-024.

Stormwater Best Management Practices

The increased stormwater flows generated under the With-Action Condition would continue to be conveyed to the Hunts Point WWTP. Stormwater Best Management Practices (BMPs) would be implemented to create opportunities for Projected and Potential Development Sites to incorporate

on-site stormwater source controls during site planning and building design phases of development.

Pursuant to Chapter 31 of Title 15 of the Rules of the City of New York (RCNY) for a new development, the stormwater release rate is the greater of 0.25 cubic feet per second (cfs) or 10 percent of the allowable flow. For alterations, the stormwater release rate for the altered areas will be directly proportional to the ratio of the altered area to the total site area, and no new points of discharge are permitted. Therefore, any new developments or alterations in the With-Action Condition requiring a connection to the sewer system would be required to achieve a new flow rate. Flexibility in achieving this rate is provided to the development community through a variety of approvable systems, including subsurface and rooftop systems. Joint DEP and New York City Department of Buildings (DOB) guidelines are available to ensure the proper design and construction in the early stages of site planning and building design. This performance standard allows for a wide range of management techniques, costs, and space considerations.

A variety of BMPs could be implemented on the Projected and Potential Development Sites to facilitate stormwater source controls and limit the stormwater release rate to the required 0.25 cfs or 10 percent of the allowable flow per the drainage plan, whichever is greater.

The increased flow to the combined sewer system would be a direct result of the increased densities and sanitary flows under the With-Action Condition. The implementation of low-flow fixtures, as per the New York City Plumbing Code, Local Law 33 of 2007, and the U.S. Environmental Protection Agency's WaterSense Program, would help to potentially reduce sanitary flows. To further offset these increases, on-site stormwater control measures of BMPs would be implemented to retain or slowly release stormwater runoff with controlled discharge rates to the City's combined sewer system.

Enhanced stormwater management throughout the City is consistent with recent government initiatives, including the *New York City Green Infrastructure Plan* and *PlaNYC*. The *New York City Green Infrastructure Plan*, released in September 2010, includes a goal of capturing the first inch of rainfall on 10 percent of the impervious areas in combined sewer watersheds through detention or infiltration techniques over a 20-year period.

For each Projected and Potential Development Site, developers would be required to incorporate BMPs to limit stormwater from the site to the sewer system to the greater of 0.25 cfs or 10 percent of the allowable flow. To achieve this release rate, stormwater could be managed by utilizing one of a combination of detention or infiltration techniques identifies in the *New York City Green Infrastructure Plan*. Green technologies, such as green roofs and blue roofs, subsurface detention and infiltration, and permeable pavement, would retain or release stormwater with stifled discharge rates to control peak runoff rates. Trees planted per the City's street tree requirement could also be utilized to capture and store water below an enhanced tree pit. These BMPs, among other potential measures, would help to avoid excessive stormwater flow to the Port Richmond WWTP.

The With-Action Condition would result in the increase of flows to the City's combined sewer system that may be discharged through CSOs into the Upper East River. Because the of the 200 mg per day capacity of the Hunts Point WWTP, the anticipated marginally increased flows to the

combined sewer system would not have a significant impact on water quality. Based on the DEP matrix and the required BMP measures that would be implemented on each Projected and Potential Development Site to ensure runoff requirements are upheld, the Proposed Action is not anticipated to result in a significant adverse impact to New York City's stormwater infrastructure or treatment facilities.

ATTACHMENT L. TRANSPORTATION

INTRODUCTION

The objective of a transportation analysis is to determine whether a proposed action may have a potentially significant adverse impact on traffic operations, public transportation facilities and services; pedestrian elements and flow; safety of roadway users (pedestrians, bicyclists, and vehicles); and on and off-street parking. This report provides detailed discussion of the transportation planning associated with the Traffic and Transportation study task, the need for obtaining the required data, and the subsequent analysis to supplement the study.

The Directly Affected Area is located in the Wakefield neighborhood of Bronx County, New York City (Figure 1) on the city block bounded by East 241st Street on north, White Plains Road on the west, East 240th Street on the south, and Furman Avenue on the east (Figure 2) within Community District 12. The development anticipated under the Proposed Action would be complete and fully operational by Build Year 2026.

ANALYSIS METHODOLOGY

The 2014 *CEQR Technical Manual* identifies minimum development densities that potentially require transportation analysis. Those development densities shown in Table 16-1 of the 2014 *CEQR Technical Manual* generally result in fewer than 50 peak hour vehicle trips, 200 peak hour subway/rail or bus transit riders, and 200 peak hour pedestrian trips, where significant adverse impacts are generally considered unlikely. For residential developments in Zone 2 (which includes all areas within 0.25 mile of a subway station with respect to the current project location in Bronx County) the development threshold is 200 new dwelling units, which the Proposed Action would exceed.

For transportation analysis purposes, the incremental difference in trip generation between the No-Action and the With-Action Conditions provides the basis for assessing transportation conditions in the Study Area. The With-Action Condition would result in a net increase of 380,753 gsf of residential space (405 dwelling units); a net increase of 62,120 gsf of commercial facility; a net increase of 16,862 gsf of community facility space; [52] a net increase of 39 parking spaces; and a net decrease of 11,405 gsf of manufacturing/industrial space. Therefore a transportation screening assessment is conducted.

TRANSPORTATION SCREENING ASSESSMENT

The *CEQR Technical Manual* describes a two-tier screening process to determine if quantified analyses of transportation conditions are warranted. The preliminary assessment starts with a trip generation analysis (Level 1) to estimate the volume of person and vehicle trips attributable to the project. According to the *CEQR Technical Manual*, if the project is expected to result in fewer than 50 peak hour vehicle trips and fewer than 200 peak hour transit or pedestrian trips, further quantified

[52] The community facility space would be occupied by a child day care facility. The trip generation estimates utilize the child day care transportation demand factors from the East New York Rezoning Proposal FEIS, 2016 (CEQR No. 15DCP102K).

analyses are not warranted. When these thresholds are exceeded, detailed trip assignments (Level 2) are performed to estimate the incremental trips that could be incurred at specific transportation elements and to identify potential locations for further analyses. If the trip assignments show that the Proposed Action would generate 50 or more peak hour vehicle trips at an intersection, 200 or more peak hour subway trips at a station, 50 or more peak hour bus trips in one direction along a bus route, or 200 or more peak hour pedestrian trips traversing a pedestrian element, then further quantified analyses may be warranted to assess transportation conditions in the Study Area.

Level 1 Screening Assessment

A Level 1 screening assessment was conducted in accordance with the 2014 *CEQR Technical Manual* to determine if the increment in the With-Action Condition would exceed CEQR thresholds for conducting quantified transportation analyses. To undertake this assessment, a trip generation analysis was conducted for the weekday AM, midday, PM, and Saturday midday peak hours. Trip estimates were developed for the local retail, community facility, and residential components for the No-Action and With-Action Conditions. However, conservatively, no credit was taken for the net decrease of 11,405 gsf of manufacturing/industrial space.

Trip Generation

Transportation planning assumptions used in trip generation analysis are summarized in Table L-1 and are based on information provided in the *2014 CEQR Technical Manual*, 2011-2015 U.S. Census Bureau's American Community Survey (ACS) database, East Fordham Road Rezoning FEIS 2013 (CEQR No.: 13DCP107X) and East New York Rezoning Proposal FEIS, 2016 (CEQR No. 15DCP102K); for local retail, childcare (community facility) and residential uses.

Local Retail

The travel demand forecast for local retail is based on trip rates and temporal distribution from the *CEQR Technical Manual* and the directional splits, mode share, and vehicle occupancy are based on data from the East Fordham Road Rezoning FEIS. A 25% trip linkage factor has been applied to local retail trips given the project is a mixed-use development that includes residential units.

Community Facility (Childcare)

The factors used to forecast travel demand for the childcare facility were developed from the recently approved East New York Rezoning Proposal FEIS transportation study.

Residential

The forecast of travel demand from projected residential development is based on trip rates and temporal distribution rates as per the *CEQR Technical Manual*. The residential modal split reflects journey-to-work data from the 2015 Census database.

Trip generation for the No-Action Condition, With-Action Condition, and the resulting Net Incremental trips are shown in Tables L-2, L-3, and L-4, respectively. As summarized in Table L-4, the With-Action Condition is expected to generate approximately 708, 2,009, 1,427, and 1,439 net

incremental person trips, and 152, 164, 196, and 180 net incremental vehicle trips during the weekday AM, midday, PM, and Saturday midday peak hours, respectively.

Traffic

As presented in Table L-4, the With-Action would result in approximately 152, 164, 196, and 180 incremental vehicle trips during the weekday AM, midday, PM, and Saturday midday peak hours, respectively. The net incremental vehicle trips during the analysis peak hours exceed the CEQR Level 1 trip generation threshold (50 peak hour vehicle trip-ends); therefore, a Level 2 screening assessment for potential project-generated vehicular trips was conducted.

Transit

The Study Area is well served by various public transit options (Figure 23). These include the No. 2 subway line station (Wakefield–241st Street) on White Plains Road; the Wakefield Metro-North Railroad Station which is approximately 0.4 miles from the Directly Affected Area; the Westchester County Bee-Line local bus routes that run along White Plains Road; and the MTA operated BxM11, Bx16 and Bx39 bus routes. As presented in Table L-4, the With-Action Condition would result in approximately 128, 147, 174, and 162 incremental subway trips and 84, 208, 157, and 160 incremental bus trips during the weekday AM, midday, PM, and Saturday midday peak hours, respectively. The bus trips exceed the CEQR Level 1 trip generation threshold (200 trips) during weekday midday analysis peak hour; therefore, a Level 2 screening assessment for potential project-generated transit trips was conducted.

Table L-1: Transportation Planning Assumptions

Use	Local Retail				Childcare				Residential (DU)			
Total Daily Person Trip	(1) Weekday 205 Trips/KSF			SAT 240	(3) Weekday 33 Trips/KSF			SAT 2	(1) Weekday 8.075 Trips/DU			SAT 9.60
Trip Linkage	25%				0%				0%			
Net Daily Person Trip	Weekday 154 Trips/KSF			SAT 180	Weekday 33 Trips/KSF			SAT 2	Weekday 8.075 Trips/DU			SAT 9.60
Temporal	(1)				(3)				(1)			
	AM	**MD**	**PM**	**SAT**	**AM**	**MD**	**PM**	**SAT**	**AM**	**MD**	**PM**	**SAT**
	3.0%	19.0%	10.0%	10.0%	16.0%	5.0%	19.0%	12.0%	10.0%	5.0%	11.0%	8.0%
Direction	(2)				(3)				(2)			
In	50%	50%	50%	50%	53%	50%	47%	47%	15%	50%	70%	50%
Out	50%	50%	50%	50%	47%	50%	53%	53%	85%	50%	30%	50%
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Modal Split	(2)				(3)				(4)			
	AM	**MD**	**PM**	**SAT**	**AM**	**MD**	**PM**	**SAT**	**AM**	**MD**	**PM**	**SAT**
Auto	3.0%	3.0%	3.0%	3.0%	5.0%	5.0%	5.0%	5.0%	40.6%	40.6%	40.6%	40.6%
Taxi	2.0%	2.0%	2.0%	2.0%	1.0%	1.0%	1.0%	1.0%	0.8%	0.8%	0.8%	0.8%
Subway	5.0%	5.0%	5.0%	5.0%	3.0%	3.0%	3.0%	3.0%	33.5%	33.5%	33.5%	33.5%
Bus	10.0%	10.0%	10.0%	10.0%	6.0%	6.0%	6.0%	6.0%	15.1%	15.1%	15.1%	15.1%
Railroad	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	6.3%	6.3%	6.3%	6.3%
Ferry	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Bicycle	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.2%	0.2%	0.2%	0.2%
Walk	80.0%	80.0%	80.0%	80.0%	85.0%	85.0%	85.0%	85.0%	3.5%	3.5%	3.5%	3.5%
Total	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Vehicle Occupancy	(2)				(3)				(2)(4)			
Auto	1.60				1.65				1.09			
Taxi	1.20				1.40				1.40			
Daily Delivery Trip Generation Rate	(1) Weekday 0.35 Delivery Trips/ KSF			SAT 0.04	(3) Weekday 0.07 Delivery Trips/ KSF			SAT 0	(1) Weekday 0.06 Delivery Trips/DU			SAT 0.02
Delivery Temporal	(1)				(3)				(1)			
	AM	**MD**	**PM**	**SAT**	**AM**	**MD**	**PM**	**SAT**	**AM**	**MD**	**PM**	**SAT**
	8.0%	11.0%	2.0%	11.0%	9.6%	11.0%	1.0%	0.0%	12.0%	9.0%	2.0%	9.0%
Delivery Direction	(1)				(3)				(1)			
In	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%
Out	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%
Total	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

Sources
(1) 2014 CEQR Technical Manual
(2) East Fordham Road Rezoning, FEIS 2013 (CEQR No. 13DCP107X)
(3) East New York Rezoning Proposal, FEIS, 2016 (CEQR No. 15DCP102K)
(4) Journey to Work, U.S. Census Bureau, American Community Survey 2011-2015 5-Year Estimates.using weighted avaerage of Census Tract data of tracts 414, 418, 434, 436, 442, 444 of Bronx County, New York.)

Table L-2: Transportation Demand Forecast, No-Action Condition

Use	Peak Hour	In/Out	Person Trips									Vehicle Trips			
			Auto	Taxi	Subway	Bus	Railroad	Ferry	Bicycle	Walk	Total	Auto	Taxi	Delivery	Total
Local Retail	Weekday AM	In	1	1	1	3	0	0	0	21	26	0	1	0	2
		Out	1	1	1	3	0	0	0	21	26	0	1	0	2
		Total	2	1	3	5	0	0	0	41	52	1	2	0	3
	Weekday Midday	In	5	3	8	16	0	0	0	131	164	3	5	0	9
		Out	5	3	8	16	0	0	0	131	164	3	5	0	9
		Total	10	7	16	33	0	0	0	262	328	6	11	0	18
	Weekday PM	In	3	2	4	9	0	0	0	69	86	2	3	0	5
		Out	3	2	4	9	0	0	0	69	86	2	3	0	5
		Total	5	3	9	17	0	0	0	138	173	3	6	0	9
	Saturday Midday	In	3	2	5	10	0	0	0	81	101	2	3	0	5
		Out	3	2	5	10	0	0	0	81	101	2	3	0	5
		Total	6	4	10	20	0	0	0	162	202	4	7	0	11
Childcare	Weekday AM	In	0	0	0	0	0	0	0	0	0	0	0	0	0
		Out	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total	0	0	0	0	0	0	0	0	0	0	0	0	0
	Weekday Midday	In	0	0	0	0	0	0	0	0	0	0	0	0	0
		Out	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total	0	0	0	0	0	0	0	0	0	0	0	0	0
	Weekday PM	In	0	0	0	0	0	0	0	0	0	0	0	0	0
		Out	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total	0	0	0	0	0	0	0	0	0	0	0	0	0
	Saturday Midday	In	0	0	0	0	0	0	0	0	0	0	0	0	0
		Out	0	0	0	0	0	0	0	0	0	0	0	0	0
		Total	0	0	0	0	0	0	0	0	0	0	0	0	0
Residential (DU)	Weekday AM	In	1	0	0	0	0	0	0	0	1	0	0	0	0
		Out	3	0	3	1	0	0	0	0	8	3	0	0	0
		Total	4	0	3	1	1	0	0	0	9	3	0	0	0
	Weekday Midday	In	1	0	1	0	0	0	0	0	2	1	0	0	1
		Out	1	0	1	0	0	0	0	0	2	1	0	0	1
		Total	2	0	1	1	0	0	0	0	4	2	0	0	2
	Weekday PM	In	3	0	2	1	0	0	0	0	7	3	0	0	3
		Out	1	0	1	0	0	0	0	0	3	1	0	0	1
		Total	4	0	3	1	1	0	0	0	10	4	0	0	4
	Saturday Midday	In	2	0	1	1	0	0	0	0	4	2	0	0	2
		Out	2	0	1	1	0	0	0	0	4	2	0	0	2
		Total	3	0	3	1	1	0	0	0	8	3	0	0	3
Total	Weekday AM	In	1	1	2	3	0	0	0	21	27	1	1	0	2
		Out	4	1	4	4	0	0	0	21	33	3	1	0	4
		Total	76	1	6	7	1	0	0	42	61	4	2	0	7
	Weekday Midday	In	6	3	9	17	0	0	0	131	166	4	5	0	10
		Out	6	3	9	17	0	0	0	131	166	4	5	0	10
		Total	12	7	18	33	0	0	0	262	332	8	11	0	19
	Weekday PM	In	5	2	7	10	0	0	0	69	93	4	3	0	7
		Out	4	2	5	9	0	0	0	69	89	3	3	0	6
		Total	9	4	12	19	1	0	0	138	182	7	6	0	13
	Saturday Midday	In	5	2	6	11	0	0	0	81	105	3	3	0	7
		Out	5	2	6	11	0	0	0	81	105	3	3	0	7
		Total	9	4	13	21	1	0	0	162	210	7	7	0	14

Note: In and Out volumes may not sum to Total volumes due to rounding.

Table L-3: Transportation Demand Forecast, With-Action Condition

Use	Peak Hour	In/Out	Person Trips									Vehicle Trips			
			Auto	Taxi	Subway	Bus	Railroad	Ferry	Bicycle	Walk	Total	Auto	Taxi	Delivery	Total
Local Retail	Weekday AM	In	5	3	8	17	0	0	0	135	169	3	6	1	10
		Out	5	3	8	17	0	0	0	135	169	3	6	1	10
		Total	10	7	17	34	0	0	0	271	338	6	11	2	20
	Weekday Midday	In	32	21	54	107	0	0	0	857	1071	20	36	1	57
		Out	32	21	54	107	0	0	0	857	1071	20	36	1	57
		Total	64	43	107	214	0	0	0	1714	2143	40	71	3	114
	Weekday PM	In	17	11	28	56	0	0	0	451	564	11	19	0	30
		Out	17	11	28	56	0	0	0	451	564	11	19	0	30
		Total	34	23	56	113	0	0	0	902	1128	21	38	1	59
	Saturday Midday	In	20	13	33	66	0	0	0	528	660	12	22	0	34
		Out	20	13	33	66	0	0	0	528	660	12	22	0	34
		Total	40	26	66	132	0	0	0	1056	1320	25	44	0	69
Childcare	Weekday AM	In	2	0	1	3	0	0	0	40	47	1	1	0	2
		Out	2	0	1	3	0	0	0	36	42	1	1	0	2
		Total	4	1	3	5	0	0	0	76	89	3	1	0	4
	Weekday Midday	In	1	0	0	1	0	0	0	12	14	0	0	0	1
		Out	1	0	0	1	0	0	0	12	14	0	0	0	1
		Total	1	0	1	2	0	0	0	24	28	1	0	0	1
	Weekday PM	In	2	0	1	3	0	0	0	42	50	2	1	0	2
		Out	3	1	2	3	0	0	0	48	56	2	1	0	2
		Total	5	1	3	6	0	0	0	90	106	3	2	0	5
	Saturday Midday	In	0	0	0	0	0	0	0	2	2	0	0	0	0
		Out	0	0	0	0	0	0	0	2	2	0	0	0	0
		Total	0	0	0	0	0	0	0	3	4	0	0	0	0
Residential (DU)	Weekday AM	In	21	0	17	8	3	0	0	2	51	19	2	2	23
		Out	118	2	97	44	18	0	1	10	290	108	2	2	112
		Total	139	3	114	52	22	0	1	12	342	127	4	3	134
	Weekday Midday	In	35	1	29	13	5	0	0	3	85	32	1	1	34
		Out	35	1	29	13	5	0	0	3	85	32	1	1	34
		Total	69	1	57	26	11	0	0	6	171	64	2	2	68
	Weekday PM	In	107	2	88	40	17	0	1	9	263	98	2	0	101
		Out	46	1	38	17	7	0	0	4	113	42	2	0	44
		Total	153	3	126	57	24	0	1	13	376	140	4	1	145
	Saturday Midday	In	66	1	54	25	10	0	0	6	162	61	2	0	62
		Out	66	1	54	25	10	0	0	6	162	61	2	0	62
		Total	132	3	109	49	20	0	1	11	325	121	4	0	125
Total	Weekday AM	In	28	4	27	27	3	0	0	177	268	24	8	3	35
		Out	125	6	107	63	18	0	1	181	501	113	8	3	124
		Total	153	10	134	91	22	0	1	358	769	136	16	5	158
	Weekday Midday	In	68	22	83	121	5	0	0	872	1171	52	37	3	92
		Out	68	22	83	121	5	0	0	872	1171	52	37	3	92
		Total	135	44	165	242	11	0	0	1744	2341	105	74	5	184
	Weekday PM	In	126	14	118	99	17	0	1	503	877	110	22	1	132
		Out	65	13	68	77	7	0	0	503	733	54	22	1	77
		Total	192	27	185	176	24	0	1	1005	1609	165	43	1	209
	Saturday Midday	In	86	15	87	91	10	0	0	535	824	73	24	0	97
		Out	86	15	87	91	10	0	0	536	825	73	24	0	97
		Total	172	29	175	181	20	0	1	1071	1649	146	48	0	194

Note: In and Out volumes may not sum to Total volumes due to rounding.

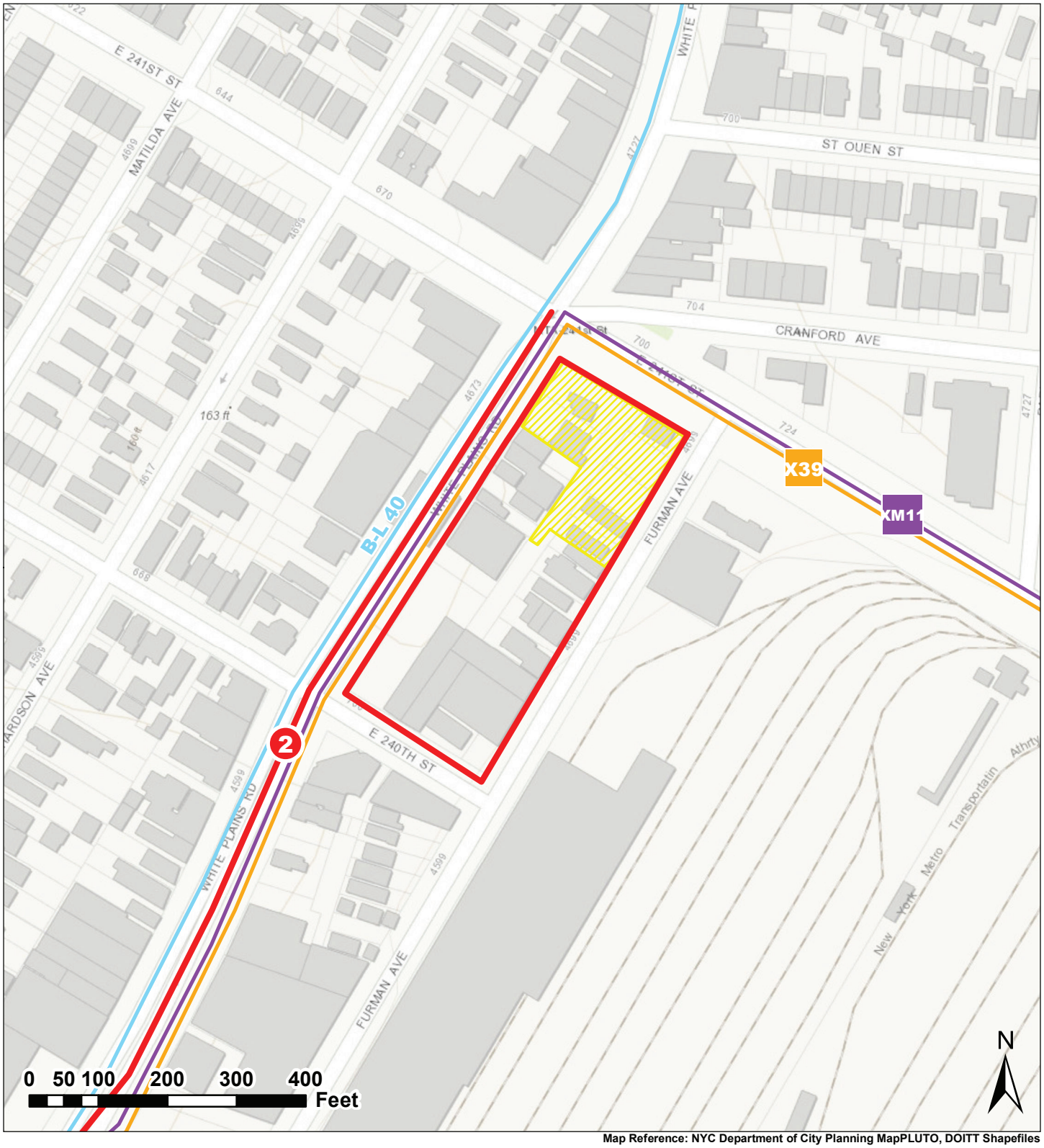
Table L-4: Transportation Demand Forecast, Net Incremental (With-Action Condition minus No-Action Condition)

Use	Peak Hour	In/Out	Person Trips									Vehicle Trips			
			Auto	Taxi	Subway	Bus	Railroad	Ferry	Bicycle	Walk	Total	Auto	Taxi	Delivery	Total
Local Retail	Weekday AM	In	4	3	7	14	0	0	0	115	143	3	5	1	8
		Out	4	3	7	14	0	0	0	115	143	3	5	1	8
		Total	9	6	14	29	0	0	0	229	287	5	10	2	17
	Weekday Midday	In	27	18	45	91	0	0	0	726	907	17	30	1	48
		Out	27	18	45	91	0	0	0	726	907	17	30	1	48
		Total	54	36	91	181	0	0	0	1452	1815	34	60	2	97
	Weekday PM	In	14	10	24	48	0	0	0	382	478	9	16	0	25
		Out	14	10	24	48	0	0	0	382	478	9	16	0	25
		Total	29	19	48	96	0	0	0	764	955	18	32	0	50
	Saturday Midday	In	17	11	28	56	0	0	0	447	559	10	19	0	29
		Out	17	11	28	56	0	0	0	447	559	10	19	0	29
		Total	34	22	56	112	0	0	0	895	1118	21	37	0	58
Childcare	Weekday AM	In	2	0	1	3	0	0	0	40	47	1	1	0	2
		Out	2	0	1	3	0	0	0	36	42	1	1	0	2
		Total	4	1	3	5	0	0	0	76	89	3	1	0	4
	Weekday Midday	In	1	0	0	1	0	0	0	12	14	0	0	0	1
		Out	1	0	0	1	0	0	0	12	14	0	0	0	1
		Total	1	0	1	2	0	0	0	24	28	1	0	0	1
	Weekday PM	In	2	0	1	3	0	0	0	42	50	2	1	0	2
		Out	3	1	2	3	0	0	0	48	56	2	1	0	2
		Total	5	1	3	6	0	0	0	90	106	3	2	0	5
	Saturday Midday	In	0	0	0	0	0	0	0	2	2	0	0	0	0
		Out	0	0	0	0	0	0	0	2	2	0	0	0	0
		Total	0	0	0	0	0	0	0	3	4	0	0	0	0
Residential (DU)	Weekday AM	In	20	0	17	8	3	0	0	2	50	19	2	1	22
		Out	115	2	95	43	18	0	1	10	283	106	2	1	109
		Total	135	3	111	50	21	0	1	12	333	124	4	3	131
	Weekday Midday	In	34	1	28	13	5	0	0	3	83	31	1	1	33
		Out	34	1	28	13	5	0	0	3	83	31	1	1	33
		Total	68	1	56	25	10	0	0	6	166	62	2	2	66
	Weekday PM	In	104	2	86	39	16	0	1	9	256	96	2	0	98
		Out	45	1	37	17	7	0	0	4	110	41	2	0	43
		Total	149	3	123	55	23	0	1	13	366	137	4	0	141
	Saturday Midday	In	64	1	53	24	10	0	0	6	158	59	2	0	61
		Out	64	1	53	24	10	0	0	6	158	59	2	0	61
		Total	128	3	106	48	20	0	1	11	316	118	4	0	122
Total	Weekday AM	In	27	4	25	25	3	0	0	156	240	23	7	2	32
		Out	121	6	103	60	18	0	1	160	468	109	7	2	119
		Total	148	9	128	84	21	0	1	317	708	132	15	5	152
	Weekday Midday	In	62	19	74	104	5	0	0	741	1004	48	31	2	82
		Out	62	19	74	104	5	0	0	741	1004	48	31	2	82
		Total	123	38	147	208	10	0	0	1481	2009	97	63	5	164
	Weekday PM	In	121	12	111	89	16	0	1	433	783	106	19	0	125
		Out	62	11	62	68	7	0	0	434	643	52	19	0	71
		Total	183	23	174	157	23	0	1	867	1427	158	38	1	196
	Saturday Midday	In	81	12	81	80	10	0	0	454	719	70	20	0	90
		Out	81	12	81	80	10	0	0	455	719	70	20	0	90
		Total	162	25	162	160	20	0	1	909	1439	139	41	0	180

Note: In and Out volumes may not sum to Total volumes due to rounding.

EAST 241ST STREET REZONING

FIGURE 23
TRANSIT MAP



Map Reference: NYC Department of City Planning MapPLUTO, DOITT Shapefiles

Directly Affected Area
Proposed Development Site
NYCT Subway Train
NYCT Bus Lines
XM11
X39
Westchester Bee Line

WAKEFIELD, BRONX, NY

LANGAN

Pedestrians

As presented in Table L-4, the With-Action Condition would result in approximately 708, 2,009, 1,427, and 1,439 net incremental person trips in the weekday AM, midday, PM, and Saturday midday peak hours, respectively. This exceeds CEQR Level 1 trip generation threshold during the four analysis peak hours; therefore, a Level 2 screening assessment for potential project-generated pedestrian trips was conducted.

Level 2 Screening Assessment

A Level 2 screening assessment involves the assignment of project-generated trips to the study area street network, pedestrian elements and transit facilities, and the identification of specific locations where the incremental increase in demand may potentially exceed *CEQR Technical Manual* analysis thresholds, and therefore could require a quantitative analysis.

Traffic

The *CEQR Technical Manual* Level 2 screening threshold for detailed analysis is also 50 vehicles, but this threshold applies to individual intersections during the peak hours (rather than the total trip generation). An assignment of peak hour traffic volumes was performed for the weekday AM, midday, PM, and Saturday midday periods to identify the intersections that could potentially exceed the 50-vehicle trip threshold during these periods.

Trip Distribution

The vehicle trips were assigned to the study area intersections based on the most preferable travel routes to and from the Directly Affected Area, prevailing travel patterns, commuter origin-destination summaries from the census data, the configuration of the roadway network, and the anticipated locations of site access and egress.

Traffic assignments for autos, taxis, and deliveries for individual development program components are discussed as follows:

AUTOS

Residential: Residential auto assignments were based on the journey-to-work origin-destination information from the 2014 U.S. Census database. Based on this information, majority of residential trips would involve workplaces outside of the Bronx with approximately 76 percent located within Manhattan, Brooklyn, Queens, Long Island and Westchester and the remaining approximately 24 percent within the Bronx. Overall, the vehicle trips generated by the residential component were distributed to the study area streets/roadways in the following manner:

1. Outside of the Bronx (76 percent):

Approximately 87 percent of project-generated vehicle trips originating outside of the Bronx were assumed to approach the Directly Affected Area from the east which is comprised of traffic from the southbound and northbound off-ramps of the Major Deegan Expressway (I-87) and

Bronx River Parkway. The remaining 13 percent is assumed to approach the Directly Affected Area from the west via Baychester Avenue. Outbound auto trips are expected to travel along routes generally similar to those on which they arrived. All residential auto trips were assigned to the parking garage included in the Proposed Action.

2. Within the Bronx (24 percent):

The study area is located at the northern border of Bronx County. Therefore, auto trips were assigned to and from the Directly Affected Area based on prevailing travel patterns to the south, east, and west of the projected development.

Local Retail: The local retail uses are expected to serve users of the immediate surrounding area. Therefore, auto trips were assigned from local origins within the neighborhood and adjacent residential areas based on prevailing travel patterns of the project vicinity.

Child Care: Day care centers are expected to serve users of the immediate surrounding area. The few generated auto trips were assigned from local origins within the neighborhood and adjacent residential areas based on prevailing travel patterns of the project vicinity.

TAXIS

Future taxi trips to the site for all development components were assigned to pick up and drop off along the north and west building frontages on East 241st Street and White Plains Road.

DELIVERIES

Truck delivery trips for all land uses were assigned to NYCDOT-designated truck routes. Trucks were assigned to the study area from regional origins via the Major Deegan Expressway (I-87), New England Thruway (I-95), Boston Road (Route 1), Baychester Avenue, East 233rd Street, Nereid Avenue, East 241st Street and White Plains Road. Trucks were assigned along regional and local truck routes as long as possible until reaching the Directly Affected Area.

The project generated peak hour incremental vehicle trips are presented in Appendix D, "Transportation" (Figures D-1 through D-4). Based on the vehicle trip distribution and assignments, the following four intersections could experience more than 50 vehicle trips in any of the given four peak hours and were therefore included in the study area:

- Nereid Avenue and White Plains Road
- East 241st Street and White Plains Road
- East 241st Street and Furman Avenue
- East 240th Street and Furman Avenue

The intersection of East 240th Street and White Plains Road was additionally included in the study area given its close proximity to the Directly Affected Area even though it doesn't experience more than 50 peak hour vehicle trips. Figure 23 shows these five intersections (two

signalized and three unsignalized) selected for detailed analysis in the study area. The Proposed Action generated peak hour incremental vehicle trips at these five intersections are presented in Appendix D, "Transportation" (Figures D-1 through D-4).

Transit

The peak hour incremental total subway trips are less than 200 in all the four peak hours, therefore, neither the No. 2 subway line nor the Wakefiled-241st Street subway station is expected to experience 200 or more transit riders resulting from the Proposed Action. There are multiple bus routes within the ½-mile walking distance of the Directly Affected Area. With a maximum of 208 bus passenger trips in a given peak hour, none of the bus routes are expected to experience 50 or more bus trips in a single direction. Therefore, detailed analysis of transit conditions is not warranted and the Proposed Action would not adversely affect the transit conditions in the study area.

Pedestrians

As shown in Table L-4, the projected peak hour pedestrian trips would exceed the CEQR analysis threshold of 200 pedestrians during the weekday AM, midday, PM, and Saturday midday peak hours. Therefore, a Level 2 pedestrian screening assessment was conducted for these peak hours based on the most logical walking routes between the Directly Affected Area and various origins/destinations in the study area. The Proposed Action generated peak hour incremental pedestrian trips are presented in Figures D-5 through D-8 in Appendix D, "Transportation."

Pedestrian elements were selected for detailed analysis if they experienced more than 200 incremental pedestrian trips in any of the given peak hours based on trip distribution and assignments. The elements selected for pedestrian analysis include:

1. West sidewalk of Furman Avenue south of East 241st Street.

2. East sidewalk of White Plains Road north of East 240th Street.

3. South sidewalk of East 241st Street at midblock between White Plains Road and Furman Avenue (assumed access point for retail users along East 241st Street between White Plains Road and Furman Avenue).

4. West sidewalk of Furman Avenue at midblock between East 241st Street and East 240th Street (assumed access point for retail and residential users along Furman Avenue, closer to the intersection at East 240th Street.

5. North sidewalk of East 240th Street at midblock between White Plains Road and Furman Avenue (assumed access point for retail and childcare users along East 240th Street).

6. West sidewalk of White Plains Road at midblock between East 241st Street and East 240th Street (assumed access point for retail and residential users along White Plains Road).

TRANSPORTATION ANALYSES METHODOLOGIES

Traffic

The traffic capacity analyses are based on methodologies presented in the Highway Capacity Manual (HCM) using the Highway Capacity Software (HCS+) 5.5 model. The HCM methodology produces a volume-to-capacity (v/c) ratio for each signalized intersection approach. The v/c ratio represents the ratio of traffic volume on an approach to the approach's carrying capacity. A v/c ratio of less than 0.90 is generally considered indicative of non-congested conditions in dense urban areas; when higher than this value, the ratio reflects increasing congestion. At a v/c ratio between 0.95 and 1.0, near-capacity conditions are reached and delays can become substantial. Ratios of greater than 1.0 indicate saturated conditions with queuing. The HCM methodology also expresses the quality of traffic flow in terms of level of service (LOS), which is based on the amount of delay that a driver typically experiences at an intersection. Levels of service range from A, representing minimal delay (10 seconds or less per vehicle), to F, which represents long delays (greater than 80 seconds per vehicle). For un-signalized intersections, the HCM methodology generally assumes that traffic on major street is not affected by traffic flows on minor street. Left turns from a major street are assumed to be affected by the opposing, or oncoming, traffic flow on that major street. Traffic on minor streets is affected by all conflicting movements. Similar to signalized intersections, the HCM methodology expresses the quality of traffic flow at unsignalized intersections in terms of LOS based on the amount of delay that a driver experiences. Level of service definitions used to characterize traffic flows at un-signalized intersections differ somewhat from those used for signalized intersections, primarily because drivers anticipate different levels of performance from the two different kinds of intersections.

For unsignalized intersections, LOS ranges from A, representing minimal delay (10 seconds or less per vehicle, as it is for signalized intersections), to F, which represents long delays (greater than 50 seconds per vehicle, compared to greater than 80 seconds per vehicle for signalized intersections).

Table L-5 shows the LOS/delay relationship for signalized and un-signalized intersections using the HCM methodology. Levels of service A, B, and C generally represent highly favorable to fair levels of traffic flow. At LOS D, the influence of congestion becomes noticeable. LOS E is considered to be the limit of acceptable delay, and LOS F is considered to be unacceptable to most drivers.

Table L-5: Intersection Level of Service Criteria based on Highway Capacity Manual

LOS	Average Control Delay (seconds/vehicle)	
	Signalized Intersection	Un-signalized Intersection
A	Less than or equal to 10.0	Less than or equal to 10.0
B	10.0 to 20.0	10.0 to 15.0
C	20.0 to 35.0	15.0 to 25.0
D	35.0 to 55.0	25.0 to 35.0
E	55.0 to 80.0	35.0 to 50.0
F	Greater than 80.0	Greater than 50.0

Significant Impact Criteria

The 2014 *CEQR Technical Manual* identifies mid-level LOS D or better as an acceptable LOS for a signalized and unsignalized intersections. The 2014 *CEQR Technical Manual* also indicates that a significant adverse traffic impact is considered to occur for a signalized intersection if a Proposed Action results in any of the following:

- A lane group that operates at LOS A through C in the No-Action Condition and deteriorates under the With-Action condition to worse than mid-LOS D (greater than 45.0 seconds/vehicle of delay);
- A lane group that operates at LOS D in the No-Action Condition and is projected to have a delay increase of 5.0 seconds/vehicle or more if the With-Action delay exceeds 45.0 seconds/vehicle;
- For a lane group that operates at LOS E in the No-Action Condition, a delay increase of 4.0 seconds or more; and
- For a lane group that operates at LOS F in the No-Action Condition, a delay increase of 3.0 seconds or more.

The criteria for determination of significant impact for un-signalized intersections are similar to that for Signalized intersections.

Pedestrians

The adequacy of Study Area's crosswalks, corners, sidewalk capacities in relation to the demand imposed on them is evaluated based on the methodologies presented in the 2010 HCM, pursuant to procedures detailed in the *CEQR Technical Manual*.

Sidewalks are analyzed in terms of pedestrian space, expressed as square feet per pedestrian (ft^2/p). The determination of walkway LOS is dependent on whether the pedestrian flow being analyzed is best described as "non-platoon" or "platoon." Non-platoon flow occurs when pedestrian volume within the peak 15-minute period is relatively uniform, whereas, platoon flow occurs when pedestrian volumes vary significantly with the peak 15-minute period. Such variation typically occurs near bus stops, subway stations, and/or where adjacent crosswalks account for much of the walkway's pedestrian volume. The LOS standards for sidewalks are summarized in Table L-6 based on Highway Capacity Manual methodology.

Table L-6: Sidewalk/Walkway LOS for Non-Platoon and Platoon Conditions

LOS Level	Non-Platoon Flow	Platoon Flow
LOS A	>60 ft^2/p	>530 ft^2/p
LOS B	>40-60 ft^2/p	>90-530 ft^2/p
LOS C	>24-40 ft^2/p	>40-90 ft^2/p
LOS D	>15-24 ft^2/p	>23-40 ft^2/p
LOS E	>8-15 ft^2/p	>11-23 ft^2/p
LOS F	≤8 ft^2/p	≤11 ft^2/p

Crosswalks and street corners are not easily measured in terms of free pedestrian flow, as they are influenced by the effects of traffic signals. Street corners must be able to provide sufficient space for a mix of standing pedestrians (queued to cross a street) and circulating pedestrians (crossing the street or moving around the corner). The HCM methodologies apply a measure of time and space availability based on the area of the corner, the timing of the intersection signal, and the estimated space used by circulating pedestrians.

The total "time-space" available for these activities, expressed in square feet-second, is calculated by multiplying the net area of the corner (in square feet) by the signal's cycle length. The analysis then determines the total circulation time for all pedestrian movements at the corner per signal cycle (expressed as pedestrians per second). The ratio of net time-space divided by the total pedestrian circulation volume per signal cycle provides the LOS measurement of square feet per pedestrian (SFP).

Crosswalk LOS is also a function of time and space. Similar to the street corner analysis, crosswalk conditions are first expressed as a measurement of the available area (the crosswalk width multiplied by the width of the street) and the permitted crossing time. This measure is expressed in square feet-second. The average time required for a pedestrian to cross the street is calculated based on the width of the street and an assumed walking speed. The ratio of time-space available in the crosswalk to the total crosswalk pedestrian occupancy time is the LOS measurement of available square feet per pedestrian. The LOS analysis also accounts for vehicular turning movements that traverse the crosswalk. The *CEQR Technical Manual* specifies acceptable LOS in Central Business District (CBD) areas is mid-LOS D or better.

Table L-7 defines the LOS criteria for pedestrian crosswalk/corner areas based on Highway Capacity Manual methodology.

Table L-7: Corner/Crosswalk LOS Pedestrian Space

LOS Level	Average Pedestrian Space
LOS A	>60 ft^2/p
LOS B	>40-60 ft^2/p
LOS C	>24-40 ft^2/p
LOS D	>15-24 ft^2/p
LOS E	>8-15 ft^2/p
LOS F	≤8 ft^2/p

The determination of significant pedestrian impacts considers the level of predicted deterioration in pedestrian flow or decrease in pedestrian space between the No-Action and With-Action Conditions. For different pedestrian elements, flow conditions, and area types, the CEQR procedure for impact determination corresponds with various sliding-scale formulas, as further detailed below.

Sidewalks

The criterion for determination of significant impacts of sidewalks varies by type of pedestrian flow (*i.e.*, non-platoon or platoon) and the type of area (CBD or non-CBD).

For analysis purposes, the CBD and platoon flow criteria have been used. Under these conditions, average pedestrian space under the With-Action Condition deteriorating within acceptable LOS (mid LOS D or better) should generally not be considered a significant impact. If the pedestrian space available under the With-Action Condition deteriorates to mid LOS D or worse, then the determination whether the impact is significant or not is based on a sliding scale. The sliding scale varies within the range of average pedestrian space available under the No-Action Condition. Determination of significant impacts for sidewalks with platoon flow in a CBD area is summarized as follows:

- If the average pedestrian space under the No-Action Condition is greater than 39.2 ft^2/p, then a decrease in pedestrian space under the With-Action Condition to less than 31.5 ft^2/p (worse than mid-LOS D) should be considered a significant impact. If the average pedestrian space under the With-Action Condition is greater than or equal to 31.5 ft^2/p (mid-LOS D or better), the impact should not be considered significant.

- If the average pedestrian space under the No-Action Condition is between 6.4 and 39.2 ft^2/p, a decrease in average pedestrian space under the With-Action Condition should be considered significant according to the formula in equation below or using Table L-8:

$Y \geq X / (9.5-0.321)$

Where:
Y = decrease in pedestrian space in ft^2/p to be considered a potential significant impact
X = No-Action Condition pedestrian space in ft^2/p

Table L-8: Significant Impact Guidance for Sidewalks Platooned flow, CBD Location

No-Action Condition Pedestrian Space (ft^2/p)	With-Action Condition Pedestrian Space Reduction to be considered a significant impact (ft^2/p)
39.2	With-Action Condition ≤ 31.5
38.7 to 39.2	Reduction ≥ 3.8
37.8 to 38.6	Reduction ≥ 3.7
36.8 to 37.7	Reduction ≥ 3.6
35.9 to 36.7	Reduction ≥ 3.5
34.9 to 35.8	Reduction ≥ 3.4
34.0 to 34.8	Reduction ≥ 3.3
33.0 to 33.9	Reduction ≥ 3.2
32.1 to 32.9	Reduction ≥ 3.1
31.1 to 32.0	Reduction ≥ 3.0
30.2 to 31.0	Reduction ≥ 2.9
29.2 to 30.1	Reduction ≥ 2.8
28.3 to 29.1	Reduction ≥ 2.7
27.3 to 28.2	Reduction ≥ 2.6
26.4 to 27.2	Reduction ≥ 2.5
25.4 to 26.3	Reduction ≥ 2.4
24.5 to 25.3	Reduction ≥ 2.3
23.5 to 24.4	Reduction ≥ 2.2
22.6 to 23.4	Reduction ≥ 2.1
21.6 to 22.5	Reduction ≥ 2.0
20.7 to 21.5	Reduction ≥ 1.9
19.7 to 20.6	Reduction ≥ 1.8
18.8 to 19.6	Reduction ≥ 1.7
17.8 to 18.7	Reduction ≥ 1.6
16.9 to 17.7	Reduction ≥ 1.5
15.9 to 16.8	Reduction ≥ 1.4
15.0 to 15.8	Reduction ≥ 1.3
14.0 to 14.9	Reduction ≥ 1.2
13.1 to 13.9	Reduction ≥ 1.1
12.1 to 13.0	Reduction ≥ 1.0
11.2 to 12.0	Reduction ≥ 0.9
10.2 to 11.1	Reduction ≥ 0.8
9.3 to 10.1	Reduction ≥ 0.7
8.3 to 9.2	Reduction ≥ 0.6
7.4 to 8.2	Reduction ≥ 0.5
6.4 to 7.3	Reduction ≥ 0.4
<6.3	Reduction ≥ 0.3

Corners and Crosswalks

The criterion for determination of significant corner and crosswalk impacts is also based on a sliding scale using the following formula: $Y \geq X/9.0 - 0.3$, where Y is the decrease in pedestrian space in SFP and X is the No-Action Condition pedestrian space in SFP. Since a decrease in

pedestrian space within acceptable levels would not constitute a significant impact, this formula would apply only if the With-Action Condition pedestrian space falls short of LOS C in non-CBD areas or mid-LOS D in CBD areas. Determination of significant impacts for corners and crosswalks in a CBD area is summarized as follows:

• If the average pedestrian space under the No-Action Condition is greater than 21.5 ft^2/p, then a decrease in pedestrian space under the With-Action Condition to less than 19.5 ft^2/p (worse than mid-LOS D) should be considered a significant impact. If the pedestrian space under the With-Action Condition is greater than or equal to 19.5 ft^2/p (mid-LOS D or better), the impact should not be considered significant.

• If the average pedestrian space under the No-Action Condition is between 5.1 and 21.5 ft^2/p, a decrease in pedestrian space under the With-Action Condition should be considered significant according to the sliding scale formula in Equation discussed above or using Table L-9.

Table L-9: Significant Impact Guidance for Corners and Crosswalks, CBD Location

No-Action Condition Pedestrian Space (ft^2/p)	**With-Action Condition Pedestrian Space Reduction to be considered a significant impact (ft^2/p)**
>21.5	With-Action Condition ≤ 19.5
21.3 to 21.5	Reduction ≥ 2.1
20.4 to 21.2	Reduction ≥ 2.0
19.5 to 20.3	Reduction ≥ 1.9
18.6 to 19.4	Reduction ≥ 1.8
17.7 to 18.5	Reduction ≥ 1.7
16.8 to 17.6	Reduction ≥ 1.6
15.9 to 16.7	Reduction ≥ 1.5
15.0 to 15.8	Reduction ≥ 1.4
14.1 to 14.9	Reduction ≥ 1.3
13.2 to 14.0	Reduction ≥ 1.2
12.3 to 13.1	Reduction ≥ 1.1
11.4 to 12.1	Reduction ≥ 1.0
10.5 to 11.3	Reduction ≥ 0.9
9.6 to 10.4	Reduction ≥ 0.8
8.7 to 9.5	Reduction ≥ 0.7
7.8 to 8.6	Reduction ≥ 0.6
6.9 to 7.7	Reduction ≥ 0.5
6.0 to 6.8	Reduction ≥ 0.4
5.1 to 5.9	Reduction ≥ 0.3
<5.1	Reduction ≥ 0.2

Vehicular and Pedestrian Safety Evaluation

In conjunction with a Detailed Traffic and/or Pedestrian Analysis, an assessment of vehicular and pedestrian safety is considered to be appropriate. The key element for vehicular and pedestrian

safety analyses is the extent to which vehicular and pedestrian exposure to crashes may reasonably be expected to increase with the Proposed Action in place. Under *CEQR Technical Manual* guidelines, an evaluation of vehicular and pedestrian safety is needed for locations within the traffic and pedestrian study areas that have been identified as high crash locations. These are defined as locations with 48 or more total reportable and non-reportable crashes or where five or more pedestrian/bicyclist injury crashes have occurred in any consecutive 12 months of the most recent three-year period for which data are available. For these locations, crash trends would be identified to determine whether projected vehicular and pedestrian traffic would further impact safety, or whether existing unsafe conditions could adversely impact the flow of the projected new trips. The determination of potential significant safety impacts depends on the type of area where the Directly Affected Area is located, traffic and pedestrian volumes, crash types and severity, and other contributing factors. Where appropriate, measures to improve traffic and pedestrian safety should be identified and coordinated with DOT.

Parking

The parking analysis identifies the supply of on-street and off-street public parking near a project area and determines the extent to which the supply is utilized in existing conditions and in the future without and with a Proposed Action. The analysis considers anticipated changes in the study area's parking supply and demand, and compares project-generated parking demand with future parking availability to determine if a parking shortfall is likely to result.

TRAFFIC ANALYSES

Existing Conditions

Study Area Street Network

The traffic study area is bordered by East 241st Street to the north, Nereid Avenue to the south, Baychester Avenue to the east and White Plains Road to the west. Major highways/expressways providing access to the study area are Major Deegan Expressway (I-87) and Bronx River Parkway from the west, and New England Throughway (I-95) and Hutchinson River Parkway from the east. In terms of truck access, East 241st Street, Baychester Avenue and White Plains Road are all NYCDOT designated local truck routes in the study area.

In terms of lane configuration of major streets, East 241st Street operates with two eastbound lanes and two westbound lanes with parking on both sides. East 240th Street operates with one eastbound lane and one westbound lane with parking on both sides. Nereid Avenue operates with two eastbound lanes and two westbound lanes with parking on both sides. Baychester Avenue operates with two northbound lanes and two southbound lanes with parking on both sides. Furman Avenue operates with one northbound lane and one southbound lane with parking on both sides. There are no NYCDOT designated bicycle routes in the project study area.

Existing traffic volumes for the study area intersections were determined based on count surveys including Automatic Traffic Recorder (ATR) counts, Turning Movement Counts (TMC), vehicle classification counts, and field observations conducted in January 2017. In addition, physical inventories for operational analysis—including the number of traffic lanes, lane widths, pavement

markings, turn prohibitions, bus stops, and typical parking regulations—were collected for the study area intersections and pedestrian elements. Signal timing plans for signalized intersections were obtained from New York City Department of Transportation (NYCDOT). The existing traffic volumes during weekday AM, midday, and PM and Saturday midday peak hours are shown in Figures D-9 through D-12 in Appendix D, "Transportation."

2017 Existing Traffic Conditions Analyses Results

The volume-to-capacity ratios, delays and levels of service for those individual lane groups for each of the peak hours under existing conditions are shown in Table L-10. A lane group is considered congested if it operates at LOS E or F and/or with a v/c ratio of 0.90 or above. A v/c ratio of 1.00 or above reflects at capacity conditions. As shown in Table L-10, all of lane-groups/approaches in the study area operate at mid-LOS D or better during all peak hours with the following exceptions:

- The eastbound approach of East 241st Street at White Plains Road with a delay of 64.0 seconds, operating at LOS E, for the weekday AM Peak hour.

- The eastbound approach of East 241st Street at White Plains Road with a delay of 50.2 seconds, operating worse than mid-LOS D, for the Saturday midday Peak hour.

Table L-10: Existing Conditions (2017) - Level of Service Summary

Intersection ID	Intersection name	Control	Street name	Direction	Lane group	Weekday AM			Weekday MD			Weekday PM			Saturday MD		
						v/c ratio	Delay	LOS	v/c ratio	Delay	LOS	v/c ratio	Delay	LOS	v/c ratio	Delay	LOS
1	Nereid Avenue & White Plains Rd	SIGNAL	Nereid Avenue	EB	LTR	0.53	20.1	C	0.35	28.2	C	0.54	20.1	C	0.51	30.8	C
				WB	LTR	0.49	19.2	B	0.33	27.7	C	0.43	18.5	B	0.41	29.0	C
			White Plains Road	NB	LTR	0.41	13.5	B	0.35	9.4	A	0.53	15.5	B	0.49	11.3	B
				SB	LTR	0.41	13.2	B	0.37	9.6	A	0.57	16.4	B	0.46	10.7	B
2	E 241st Street & White Plains Road	SIGNAL	E 241st Street	EB	LTR	1.02	64.0	E	0.56	32.3	C	0.82	30.2	C	0.89	50.2	D
				WB	LTR	0.77	30.0	C	0.60	33.5	C	0.74	29.6	C	0.65	34.5	C
			White Plains Road	NB	LT	0.33	9.7	A	0.28	12.0	B	0.45	11.4	B	0.33	9.0	A
					R	0.09	9.3	A	0.10	10.2	B	0.14	9.7	A	0.10	10.2	B
				SB	LTR	0.78	21.3	C	0.57	17.1	B	0.80	21.3	C	0.76	19.5	B
3	E 241st Street & Furman Avenue	TWSC	E 241st Street	WB	L	0.03	9.3	A	0.03	8.4	A	0.04	9.2	A	0.04	8.8	A
			Furman Avenue	NB	LR	0.27	18.2	C	0.25	15.1	C	0.30	16.9	C	0.28	17.7	C
4	E 240th Street & White Plains Road	TWSC	E 240th Street	EB	LTR	0.10	12.8	B	0.16	14.5	C	0.36	19.7	C	0.25	18.9	C
				WB	LTR	0.08	12.8	B	0.05	13.2	B	0.13	14.1	B	0.13	15.8	C
			White Plains Road	NB	L	0.01	8.1	A	0.00	8.0	A	0.02	8.1	A	0.02	8.3	A
				SB	L	0.00	7.8	A	0.01	8.0	A	0.02	8.0	A	0.01	8.1	A
5	E 240th Street & Furman Avenue	TWSC	E 240th Street	EB	LR	0.03	9.0	A	0.05	9.3	A	0.10	9.8	A	0.07	9.7	A
			Furman Avenue	NB	L	0.01	7.4	A	0.01	7.4	A	0.02	7.5	A	0.02	7.5	A

2026 No-Action Condition

The future No-Action Condition traffic volumes were determined for the 2026 analysis year (the estimated time of completion for the Proposed Action). As recommended by the 2014 *CEQR Technical Manual*, a compounded annual background growth rate of 0.25 percent was applied to the existing traffic volumes for the first five years (2018 to 2022) and then a compounded background growth rate of 0.125 percent was used for the remaining four years (2023 to 2026). Since there are no other major development projects anticipated for completion in the study area by Build Year of 2026, no further adjustments were made to the No-Action Condition traffic volumes. In terms of roadway improvements, NYCDOT has proposed pedestrian safety improvements along Baychester Avenue/East 241st Street between East 233rd Street and Wakefield Avenue; however, the timing for implementation of these changes has not been finalized.

Therefore, no roadway geometric changes were incorporated in the No-Action Condition traffic analysis. No-Action Condition traffic volumes during weekday AM, midday, and PM and Saturday midday peak hours are shown in Figures D-13 through D-16 in Appendix D, "Transportation."

2026 No-Action Condition Analyses Results

The intersection capacity analysis results for the Future No-Action Condition are shown in Table L-11. As presented in Table L-11, in the Future No-Action Condition all movements operate at mid-LOS D or better with the following exceptions:

- The eastbound approach of East 241st Street at White Plains Road which would experience an increase in delay of 8.0 seconds for a total of 72.0 seconds of delay, in the weekday AM Peak hour.

- The eastbound approach of East 241st Street at White Plains Road which would experience an increase in delay of 4.1 seconds for a total of 54.3 seconds of delay, in the Saturday midday Peak hour.

Table L-11: No-Action Condition (2026) - Level of Service Summary

Intersection ID	Intersection name	Control	Street name	Direction	Lane group	Weekday AM			Weekday MD			Weekday PM			Saturday MD		
						No-Action			No-Action			No-Action			No-Action		
						v/c ratio	Delay (sec)	LOS	v/c ratio	Delay (sec)	LOS	v/c ratio	Delay (sec)	LOS	v/c ratio	Delay (sec)	LOS
1	Nereid Avenue & White Plains Rd	SIGNAL	Nereid Avenue	EB	LTR	0.55	20.3	C	0.36	28.3	C	0.55	20.2	C	0.52	31.0	C
				WB	LTR	0.50	19.3	B	0.33	27.8	C	0.44	18.7	B	0.43	29.2	C
			White Plains Road	NB	LTR	0.42	13.7	B	0.35	9.5	A	0.54	15.7	B	0.49	11.5	B
				SB	LTR	0.42	13.3	B	0.38	9.7	A	0.58	16.7	B	0.46	10.8	B
2	E 241st Street & White Plains Road	SIGNAL	E 241st Street	EB	LTR	1.05	72.0	E	0.58	32.8	C	0.84	31.3	C	0.92	54.3	D
				WB	LTR	0.79	31.2	C	0.62	34.0	C	0.77	31.1	C	0.67	35.2	D
			White Plains Road	NB	LT	0.34	9.8	A	0.29	12.1	B	0.46	11.5	B	0.33	9.0	A
					R	0.09	9.3	A	0.10	10.3	B	0.14	9.7	A	0.11	10.3	B
				SB	LTR	0.79	22.4	C	0.58	17.5	B	0.82	22.8	C	0.78	20.4	C
3	E 241st Street & Furman Avenue	TWSC	E 241st Street	WB	L	0.03	9.3	A	0.03	8.4	A	0.04	9.2	A	0.04	8.9	A
			Furman Avenue	NB	LR	0.27	18.3	C	0.26	15.1	C	0.31	17.4	C	0.29	18.2	C
4	E 240th Street & White Plains Road	TWSC	E 240th Street	EB	LTR	0.10	12.9	B	0.16	14.7	B	0.38	20.4	C	0.27	19.5	C
				WB	LTR	0.08	12.9	B	0.05	13.3	B	0.14	14.3	B	0.13	16.0	C
			White Plains Road	NB	L	0.01	8.1	A	0.00	8.1	A	0.02	8.1	A	0.02	8.3	A
				SB	L	0.00	7.8	A	0.01	8.0	A	0.02	8.0	A	0.01	8.1	A
5	E 240th Street & Furman Avenue	TWSC	E 240th Street	EB	LR	0.03	9.0	A	0.05	9.3	A	0.10	9.8	A	0.07	9.7	A
			Furman Avenue	NB	L	0.01	7.4	A	0.01	7.4	A	0.02	7.5	A	0.02	7.5	A

2026 With-Action Condition with Project Components Related to the Environment (PCRE)

The future With-Action Condition traffic volumes were estimated by overlaying the Proposed Action generated incremental vehicle trips on the 2026 No-Action Condition volumes. The With-Action Condition traffic volumes during weekday AM, midday, and PM and Saturday midday peak hours are presented in Figures D-17 through D-20 in Appendix d, "Transportation."

As part of the With-Action Condition with PCRE, signal timing improvements at the intersection of East 241st Street and White Plains Road were incorporated in the analyses. With the PCRE in place, the existing signal timing plan will be modified. More specifically, the proposed signal timing modifications are as follows:

- Shift one second of green from the north/south approach to the east/west approach during the weekday AM peak hour.

- Shift two seconds of green from the north/south approach to the east/west approach during the Saturday midday peak hour.

2026 Future With-Action Condition with PCRE Analyses Results

The intersection capacity analysis results for the With-Action Condition with PCRE are shown in Table L-12. Based on the analysis results, with the signal timing improvements in place, all intersection approaches will operate with service conditions similar to the No-Action Condition without any significant increase in delays. Therefore, the Proposed Action in the With-Action Condition with PCRE would not adversely affect the future traffic operating conditions in the study area, as per CEQR criteria.

Table L-12: With-Action Condition with PCRE (2026) - Level of Service Summary

Intersection ID	Intersection name	Control	Street name	Direction	Lane group	Weekday AM			Weekday MD			Weekday PM			Saturday MD		
						With-Action with PCRE			With-Action with PCRE			With-Action with PCRE			With-Action with PCRE		
						v/c ratio	Delay (sec)	LOS	v/c ratio	Delay (sec)	LOS	v/c ratio	Delay (sec)	LOS	v/c ratio	Delay (sec)	LOS
1	Nereid Avenue & White Plains Rd	SIGNAL	Nereid Avenue	EB	LTR	0.55	20.5	C	0.37	28.4	C	0.56	20.4	C	0.53	31.2	C
				WB	LTR	0.53	19.9	B	0.36	28.1	C	0.46	18.9	B	0.46	29.7	C
			White Plains Road	NB	LTR	0.44	13.9	B	0.38	9.9	A	0.59	17.1	B	0.53	12.1	B
				SB	LTR	0.42	13.4	B	0.39	9.9	A	0.60	17.2	B	0.48	11.0	B
2	E 241st Street & White Plains Road	SIGNAL	E 241st Street	EB	LTR	1.03	65.4	E	0.68	36.2	D	0.95	44.2	D	0.95	58.3	E
				WB	LTR	0.81	31.5	C	0.75	39.7	D	0.88	41.3	D	0.71	35.3	D
			White Plains Road	NB	LT	0.49	13.2	B	0.33	12.7	B	0.54	13.1	B	0.41	11.4	B
					R	0.12	10.2	B	0.15	10.9	B	0.20	10.6	B	0.15	11.9	B
				SB	LTR	0.93	40.8	D	0.69	21.7	C	0.96	43.7	D	0.95	44.1	D
3	E 241st Street & Furman Avenue	TWSC	E 241st Street	WB	L	0.04	9.8	A	0.06	9.5	A	0.08	10.2	B	0.07	9.7	A
			Furman Avenue	NB	LR	0.55	29.5	D	0.49	25.8	D	0.54	29.6	D	0.51	29.7	D
4	E 240th Street & White Plains Road	TWSC	E 240th Street	EB	LTR	0.12	14.2	B	0.25	20.6	C	0.51	29.7	D	0.37	26.9	D
				WB	LTR	0.15	12.7	B	0.13	19.3	C	0.23	19.0	C	0.24	20.6	C
			White Plains Road	NB	L	0.01	8.1	A	0.00	8.1	A	0.02	8.1	A	0.02	8.3	A
				SB	L	0.00	8.0	A	0.01	9.2	A	0.03	8.8	A	0.01	8.8	A
5	E 240th Street & Furman Avenue	TWSC	E 240th Street	EB	LR	0.04	10.0	A	0.09	10.8	B	0.17	11.8	B	0.13	11.6	B
			Furman Avenue	NB	L	0.01	7.7	A	0.01	7.8	A	0.02	7.8	A	0.02	7.9	A

PEDESTRIAN ANALYSES

Pedestrian 2017 Existing Condition

Baseline pedestrian levels in the study area were determined based on pedestrian counts conducted in January 2017 during the weekday hours of 7:00 AM to 10:00 AM, 12:00 PM to 2:00 PM, and 4:00 PM to 7:00 PM, and during the Saturday hours of 12:00 PM to 4:00 PM. Peak hours for analysis were determined by comparing rolling hourly volumes as follows: 7:30 AM to 8:30 AM, 1:00 PM to 2:00 PM, and 5:00 PM to 6:00 PM on weekdays, and 2:15 PM to 3:15 PM on Saturday. Existing pedestrian volumes for the weekday AM, midday, PM, and Saturday peak hours are shown in Figures D-21 to D-24 in Appendix D, "Transportation."

2017 Existing Pedestrian Condition Analyses Results

As shown in Tables L-13 through L-15, all pedestrian elements in the study area operate at acceptable service conditions during the four peak hours.

Table L-13a: Existing Condition Sidewalk Analysis Weekday AM

Location	Corner	Sidewalk Movement	Effective Width (ft.)	Two-Way Peak Hour Volume	PHF	Average Space (ft^2/p)	Platoon LOS
White Plains Road and East 241st Street	NE	North-South	7.0	206	0.68	290.0	B
		East-West	6.5	220	0.95	352.9	B
	SE	North-South	9.0	76	0.86	1,288.6	A
		East-West	3.0	63	0.83	497.3	B
	SW	North-South	13.8	96	0.86	1,546.9	A
		East-West	11.3	85	0.69	1,143.1	A
	NW	North-South	27.0	504	0.80	538.2	A
		East-West	11.8	228	0.88	571.8	A
Furman Avenue and East 241st Street	SW	North-South	3.5	27	0.56	918.7	A
		East-West	2.0	77	0.77	251.9	B
White Plains Road and East 240th Street	NE	East-West	3.5	25	0.69	1,225.0	A
East 241st Street betw. White Plains Road and Furman Avenue	Mid-block	East-West	3.0	77	0.83	406.9	B
Furman Avenue Betw. East 241st Street and East 240th Street	Mid-block	North-South	4.0	27	0.56	1,050	A
East 240th Street betw. White Plains Road and Furman Avenue	Mid-block	East-West	8.5	25	0.50	2,142	A
White Plains Road Betw. East 241st Street and East 240th Street	Mid-block	North-South	13.0	37	0.84	3,723	A

Table L-13b: Existing Condition Sidewalk Analysis Weekday Midday

Location	Corner	Sidewalk Movement	Effective Width (ft.)	Two-Way Peak Hour Volume	PHF	Average Space (ft^2/p)	Platoon LOS
White Plains Road and East 241st Street	NE	North-South	7.0	300	0.93	272.1	B
		East-West	6.5	168	0.84	409.4	B
	SE	North-South	9.0	91	0.69	859.1	A
		East-West	3.0	78	0.75	363.4	B
	SW	North-South	13.8	128	0.70	941.5	A
		East-West	11.3	69	0.72	1,476.5	A
	NW	North-South	27.0	339	0.89	895.2	A
		East-West	11.8	159	0.80	743.4	A
Furman Avenue and East 241st Street	SW	North-South	3.5	20	0.83	1,837.5	A
		East-West	2.0	74	0.80	273.8	B
White Plains Road and East 241st Street	NE	East-West	3.5	13	0.54	1,837.5	A
East 241st Street betw. White Plains Road and Furman Avenue	Mid-block	East-West	3.0	80	0.75	354.3	B
Furman Avenue Betw. East 241st Street and East 240th Street	Mid-block	North-South	4.0	20	0.83	2,100	A
East 240th Street betw. White Plains Road and Furman Avenue	Mid-block	East-West	8.5	13	0.58	4,806	A
White Plains Road Betw. East 241st Street and East 240th Street	Mid-block	North-South	13.0	55	0.60	1,780	A

Table L-13c: Existing Condition Sidewalk Analysis Weekday PM

Location	Corner	Sidewalk Movement	Effective Width (ft.)	Two-Way Peak Hour Volume	PHF	Average Space (ft^2/p)	Platoon LOS
White Plains Road and East 241st Street	NE	North-South	7.0	382	0.86	198.5	B
		East-West	6.5	185	0.83	365.5	B
	SE	North-South	9.0	92	0.77	945.0	A
		East-West	3.0	67	0.80	449.9	B
	SW	North-South	13.8	173	0.75	746.7	A
		East-West	11.3	77	0.88	1,610.8	A
	NW	North-South	27.0	635	0.82	440.6	B
		East-West	11.8	289	0.74	379.2	B
Furman Avenue and East 241st Street	SW	North-South	3.5	25	0.48	848.0	A
		East-West	2.0	61	0.73	299.9	B
White Plains Road and East 241st Street	NE	East-West	3.5	24	0.67	1,225.0	A
East 241st Street betw. White Plains Road and Furman Avenue	Mid-block	East-West	3.0	67	0.80	449.9	B
Furman Avenue Betw. East 241st Street and East 240th Street	Mid-block	North-South	4.0	25	0.48	969	A
East 240th Street betw. White Plains Road and Furman Avenue	Mid-block	East-West	8.5	24	0.63	2,789	A
White Plains Road Betw. East 241st Street and East 240th Street	Mid-block	North-South	13.0	67	0.80	1,950	A

Table L-13d: Existing Condition Sidewalk Analysis Saturday Midday

Location	Corner	Sidewalk Movement	Effective Width (ft.)	Two-Way Peak Hour Volume	PHF	Average Space (ft^2/p)	Platoon LOS
White Plains Road and East 241st Street	NE	North-South	7.0	236	0.77	286.2	B
		East-West	6.5	184	0.90	401.4	B
	SE	North-South	9.0	125	0.80	726.9	A
		East-West	3.0	71	0.77	410.8	B
	SW	North-South	13.8	153	0.93	1,056.4	A
		East-West	11.3	86	0.77	1,265.6	A
	NW	North-South	27.0	398	0.90	766.2	A
		East-West	11.8	289	0.80	412.9	B
Furman Avenue and East 241st Street	SW	North-South	3.5	9	0.45	2,205.0	A
		East-West	2.0	81	0.81	251.9	B
White Plains Road and East 241st Street	NE	East-West	3.5	15	0.63	1,837.5	A
East 241st Street betw. White Plains Road and Furman Avenue	Mid-block	East-West	3.0	81	0.77	360.0	B
Furman Avenue Betw. East 241st Street and East 240th Street	Mid-block	North-South	4.0	20	0.45	1,134	A
East 240th Street betw. White Plains Road and Furman Avenue	Mid-block	East-West	8.5	26	0.72	2,975	A
White Plains Road Betw. East 241st Street and East 240th Street	Mid-block	North-South	13.0	64	0.80	2,047	A

Table L-14: Existing Condition Crosswalk Analysis

Location	Crosswalk	Two-Way Peak Hour Volume	Average Space (ft^2/p)	LOS	Two-Way Peak Hour Volume	Average Space (ft^2/p)	LOS	Two-Way Peak Hour Volume	Average Space (ft^2/p)	LOS	Two-Way Peak Hour Volume	Average Space (ft^2/p)	LOS
		Weekday AM Peak Hour			Weekday Midday Peak Hour			Weekday PM Peak Hour			Saturday Midday Peak Hour		
White Plains Road and East 241st Street	North	70	255.4	A	96	206.2	A	136	117.0	A	85	226.1	A
	East	34	568.1	A	63	679.9	A	92	236.8	A	92	400.3	A
	South	49	421.0	A	43	548.6	A	65	349.4	A	47	581.2	A
	West	125	196.7	A	160	272.1	A	189	101.6	A	165	290.7	A

Table L-15: Existing Condition Corner Analysis

Location	Corner	Two-Way Peak Hour Volume	Average Space (ft^2/p)	LOS	Two-Way Peak Hour Volume	Average Space (ft^2/p)	LOS	Two-Way Peak Hour Volume	Average Space (ft^2/p)	LOS	Two-Way Peak Hour Volume	Average Space (ft^2/p)	LOS
		Weekday AM Peak Hour			Weekday Midday Peak Hour			Weekday PM Peak Hour			Saturday Midday Peak Hour		
White Plains Road and East 241st Street	North-East	190	378.4	A	149	356.3	A	168	263.6	A	166	293.9	A
	South-East	42	811.0	A	46	681.2	A	34	552.2	A	42	604.1	A
	South-West	22	1,115.9	A	19	1,039.6	A	24	741.3	A	27	1,069.6	A
	North-West	194	1,207.4	A	122	1,460.2	A	174	974.2	A	234	1,138.9	A

Pedestrian 2026 No-Action Condition

No-Action Condition pedestrian volumes were estimated by increasing existing pedestrian levels to reflect expected growth in overall travel through and within the study area. In accordance with CEQR guidelines, a compounded annual background growth rate of 0.25 percent was applied to the existing pedestrian volumes, similar to the traffic volumes for the future five years until 2022 and a compounded background growth rate of 0.125 percent for the remaining years. Since no other major development projects are anticipated for completion in the study area by Build Year of 2026, no further adjustments were incorporated in the future No-Action Condition pedestrian volumes. The No-Action Condition pedestrian volumes for the weekday AM, midday, PM, and Saturday peak hours are presented in Figures D-25 to D-28 in Appendix D, "Transportation."

2026 No-Action Condition Analyses Results

As shown in Tables L-16 through L-18, all pedestrian elements in the study area operate at acceptable service conditions during the four peak hours.

Table L-16a: No-Action Condition Sidewalk Analysis Weekday AM

Location	Corner	Sidewalk Movement	Effective Width (ft.)	Two-Way Peak Hour Volume	PHF	Average Space (ft^2/p)	Platoon LOS
White Plains Road and East 241st Street	NE	North-South	7.0	210	0.68	285.0	B
		East-West	6.5	224	0.95	346.8	B
	SE	North-South	9.0	77	0.86	1,266.3	A
		East-West	13.0	64	0.83	2,117.9	A
	SW	North-South	13.8	98	0.86	1,520.0	A
		East-West	11.3	86	0.69	1,123.3	A
	NW	North-South	27.0	513	0.80	528.9	B
		East-West	11.8	232	0.88	561.9	A
Furman Avenue and East 241st Street	SW	North-South	6.3	27	0.56	1,612.2	A
		East-West	13.5	78	0.77	1,671.5	A
White Plains Road and East 240th Street	NE	East-West	3.5	25	0.69	1,203.7	A
East 241st Street betw. White Plains Road and Furman Avenue	Mid-block	East-West	13.0	78	0.83	1,732.8	A
Furman Avenue Betw. East 241st Street and East 240th Street	Mid-block	North-South	4.0	27	0.56	1,031.8	A
East 240th Street betw. White Plains Road and Furman Avenue	Mid-block	East-West	8.5	25	0.50	2,104.9	A
White Plains Road Betw. East 241st Street and East 240th Street	Mid-block	North-South	13.0	38	0.84	3,658.2	A

Table L-16b: No-Action Condition Sidewalk Analysis Weekday Midday

Location	Corner	Sidewalk Movement	Effective Width (ft.)	Two-Way Peak Hour Volume	PHF	Average Space (ft^2/p)	Platoon LOS
White Plains Road and East 241st Street	NE	North-South	7.0	305	0.93	267.4	B
		East-West	6.5	171	0.84	402.3	B
	SE	North-South	9.0	93	0.69	844.2	A
		East-West	13.0	79	0.75	1,547.7	A
	SW	North-South	13.8	130	0.70	925.2	A
		East-West	11.3	70	0.72	1,451.0	A
	NW	North-South	27.0	345	0.89	879.7	A
		East-West	11.8	162	0.80	730.5	A
Furman Avenue and East 241st Street	SW	North-South	6.3	20	0.83	3,224.4	A
		East-West	13.5	75	0.80	1,816.9	A
White Plains Road and East 241st Street	NE	East-West	3.5	13	0.54	1,805.6	A
East 241st Street betw. White Plains Road and Furman Avenue	Mid-block	East-West	13.0	81	0.75	1,509.0	A
Furman Avenue Betw. East 241st Street and East 240th Street	Mid-block	North-South	4.0	20	0.83	2,063.6	A
East 240th Street betw. White Plains Road and Furman Avenue	Mid-block	East-West	8.5	13	0.58	4,722.5	A
White Plains Road Betw. East 241st Street and East 240th Street	Mid-block	North-South	13.0	56	0.60	1,749.6	A

Table L-16c: No-Action Condition Sidewalk Analysis Weekday PM

Location	Corner	Sidewalk Movement	Effective Width (ft.)	Two-Way Peak Hour Volume	PHF	Average Space (ft^2/p)	Platoon LOS
White Plains Road and East 241st Street	NE	North-South	7.0	389	0.86	195.0	B
		East-West	6.5	188	0.83	359.2	B
	SE	North-South	9.0	94	0.77	928.6	A
		East-West	13.0	68	0.80	1,916.2	A
	SW	North-South	13.8	176	0.75	733.8	A
		East-West	11.3	78	0.88	1,582.9	A
	NW	North-South	27.0	646	0.82	433.0	B
		East-West	11.8	294	0.74	372.6	B
Furman Avenue and East 241st Street	SW	North-South	6.3	25	0.48	1,488.2	A
		East-West	13.5	62	0.73	1,989.9	A
White Plains Road and East 241st Street	NE	East-West	3.5	24	0.67	1,203.7	A
East 241st Street betw. White Plains Road and Furman Avenue	Mid-block	East-West	13.0	68	0.80	1,916.2	A
Furman Avenue Betw. East 241st Street and East 240th Street	Mid-block	North-South	4.0	25	0.48	952.4	A
East 240th Street betw. White Plains Road and Furman Avenue	Mid-block	East-West	8.5	24	0.63	2,740.7	A
White Plains Road Betw. East 241st Street and East 240th Street	Mid-block	North-South	13.0	68	0.80	1,916.2	A

Table L-16d: No-Action Condition Sidewalk Analysis Saturday Midday

Location	Corner	Sidewalk Movement	Effective Width (ft.)	Two-Way Peak Hour Volume	PHF	Average Space (ft^2/p)
White Plains Road and East 241st Street	NE	North-South	7.0	240	0.77	281.3
		East-West	6.5	187	0.90	394.4
	SE	North-South	9.0	127	0.80	714.3
		East-West	13.0	72	0.77	1,749.6
	SW	North-South	13.8	156	0.93	1,038.1
		East-West	11.3	88	0.77	1,243.7
	NW	North-South	27.0	405	0.90	752.9
		East-West	11.8	294	0.80	405.8
Furman Avenue and East 241st Street	SW	North-South	6.3	9	0.45	3,869.3
		East-West	13.5	82	0.81	1,671.5
White Plains Road and East 241st Street	NE	East-West	3.5	15	0.63	1,805.6
East 241st Street betw. White Plains Road and Furman Avenue	Mid-block	East-West	13.0	82	0.77	1,533.6
Furman Avenue Betw. East 241st Street and East 240th Street	Mid-block	North-South	4.0	20	0.45	1,114.3
East 240th Street betw. White Plains Road and Furman Avenue	Mid-block	East-West	8.5	28	0.72	2,714.6
White Plains Road Betw. East 241st Street and East 240th Street	Mid-block	North-South	13.0	65	0.80	2,012.0

Table L-17: No-Action Condition Crosswalk Analysis

Location	Crosswalk	Two-Way Peak Hour Volume	Average Space (ft^2/p)	LOS	Two-Way Peak Hour Volume	Average Space (ft^2/p)	LOS	Two-Way Peak Hour Volume	Average Space (ft^2/p)	LOS	Two-Way Peak Hour Volume	Average Space (ft^2/p)	LOS
		Weekday AM Peak Hour			Weekday Midday Peak Hour			Weekday PM Peak Hour			Saturday Midday Peak Hour		
White Plains Road and East 241st Street	North	71	227.2	A	98	201.3	A	138	114.1	A	86	220.7	A
	East	35	556.9	A	64	667.5	A	94	232.1	A	94	392.8	A
	South	50	413.7	A	44	538.1	A	66	342.6	A	48	570.1	A
	West	127	193.1	A	163	267.0	A	192	99.4	A	168	285.3	A

Table L-18: No-Action Condition Corner Analysis

Location	Corner	Two-Way Peak Hour Volume	Average Space (ft^2/p)	LOS	Two-Way Peak Hour Volume	Average Space (ft^2/p)	LOS	Two-Way Peak Hour Volume	Average Space (ft^2/p)	LOS	Two-Way Peak Hour Volume	Average Space (ft^2/p)	LOS
		Weekday AM Peak Hour			Weekday Midday Peak Hour			Weekday PM Peak Hour			Saturday Midday Peak Hour		
White Plains Road and East 241st Street	North-East	193	371.8	A	152	350.0	A	171	258.9	A	169	288.6	A
	South-East	43	1,741.1	A	47	1,464.4	A	35	1,190.0	A	43	1,301.7	A
	South-West	22	1,096.4	A	19	1,021.4	A	24	728.3	A	27	1,050.8	A
	North-West	197	1,186.4	A	124	1,434.8	A	177	957.2	A	238	1,119.1	A

Pedestrian With-Action Condition (2026)

The project generated incremental peak hour pedestrian volumes were overlaid on the 2026 No-Action Condition pedestrian volumes to generate the 2026 With-Action Condition pedestrian volumes. The 2026 With-Action Condition pedestrian volumes for the weekday AM, midday, PM, and Saturday peak hours are presented in Figures D-29 to D-32 in Appendix D, "Transportation."

In line with the traffic analysis, the Future With-Action Condition pedestrian analysis also incorporates signal timing improvements at the intersection of East 241st Street and White Plains for all four peak hours.

2026 With-Action Condition Analyses Results

As shown in Tables L-19 through L-21, all pedestrian elements in the study area will operate at acceptable service conditions during the four peak hours without any significant decrease in LOS over the No-Action Condition. Therefore, the Proposed Action would not adversely affect the pedestrian operating conditions in the study area.

Table L-19a: With-Action Condition Sidewalk Analysis Weekday AM

Location	Corner	Sidewalk Movement	Effective Width (ft.)	Two-Way Peak Hour Volume	PHF	Average Space (ft^2/p)	Platoon LOS
White Plains Road and East 241st Street	NE	North-South	7.0	280	0.68	212.9	B
		East-West	6.5	236	0.95	329.1	B
	SE	North-South	9.0	425	0.86	230.4	B
		East-West	13.0	246	0.83	552.5	A
	SW	North-South	13.8	98	0.86	1,520.0	A
		East-West	11.3	129	0.69	753.2	A
	NW	North-South	27.0	789	0.80	343.7	B
		East-West	11.8	360	0.88	362.6	B
Furman Avenue and East 241st Street	SW	North-South	6.3	249	0.56	177.8	B
		East-West	13.5	260	0.77	503.8	B
White Plains Road and East 240th Street	NE	East-West	3.5	176	0.69	174.0	B
East 241st Street betw. White Plains Road and Furman Avenue	Mid-block	East-West	13.0	260	0.83	522.2	B
Furman Avenue Betw. East 241st Street and East 240th Street	Mid-block	North-South	4.0	148	0.56	191.5	B
East 240th Street betw. White Plains Road and Furman Avenue	Mid-block	East-West	8.5	159	0.50	337.1	B
White Plains Road Betw. East 241st Street and East 240th Street	Mid-block	North-South	13.0	336	0.84	409.5	B

Table L-19b: With-Action Condition Sidewalk Analysis Weekday Midday

Location	Corner	Sidewalk Movement	Effective Width (ft.)	Two-Way Peak Hour Volume	PHF	Average Space (ft^2/p)	Platoon LOS
White Plains Road and East 241st Street	NE	North-South	7.0	506	0.93	161.1	B
		East-West	6.5	221	0.84	310.9	B
	SE	North-South	9.0	1219	0.69	63.6	C
		East-West	13.0	470	0.75	261.4	B
	SW	North-South	13.8	130	0.70	925.2	A
		East-West	11.3	191	0.72	534.1	A
	NW	North-South	27.0	1128	0.89	268.8	B
		East-West	11.8	523	0.80	225.7	B
Furman Avenue and East 241st Street	SW	North-South	6.3	511	0.83	128.2	B
		East-West	13.5	466	0.80	293.7	B
White Plains Road and East 241st Street	NE	East-West	3.5	473	0.54	49.8	C
East 241st Street betw. White Plains Road and Furman Avenue	Mid-block	East-West	13.0	472	0.75	260.3	B
Furman Avenue Betw. East 241st Street and East 240th Street	Mid-block	North-South	4.0	221	0.83	189.6	B
East 240th Street betw. White Plains Road and Furman Avenue	Mid-block	East-West	8.5	474	0.58	131.5	B
White Plains Road Betw. East 241st Street and East 240th Street	Mid-block	North-South	13.0	873	0.60	111.8	B

Table L-19c: With-Action Condition Sidewalk Analysis Weekday PM

Location	Corner	Sidewalk Movement	Effective Width (ft.)	Two-Way Peak Hour Volume	PHF	Average Space (ft^2/p)	Platoon LOS
White Plains Road and East 241st Street	NE	North-South	7.0	531	0.86	142.6	B
		East-West	6.5	227	0.83	297.3	B
	SE	North-South	9.0	852	0.77	101.7	B
		East-West	13.0	391	0.80	334.4	B
	SW	North-South	13.8	176	0.75	733.8	A
		East-West	11.3	164	0.88	756.4	A
	NW	North-South	27.0	1203	0.82	232.5	B
		East-West	11.8	551	0.74	198.8	B
Furman Avenue and East 241st Street	SW	North-South	6.3	415	0.48	90.8	B
		East-West	13.5	384	0.73	321.2	B
White Plains Road and East 241st Street	NE	East-West	3.5	344	0.67	85.0	C
East 241st Street betw. White Plains Road and Furman Avenue	Mid-block	East-West	13.0	391	0.80	334.4	B
Furman Avenue Betw. East 241st Street and East 240th Street	Mid-block	North-South	4.0	212	0.48	114.0	B
East 240th Street betw. White Plains Road and Furman Avenue	Mid-block	East-West	8.5	347	0.63	192.9	B
White Plains Road Betw. East 241st Street and East 240th Street	Mid-block	North-South	13.0	664	0.80	196.6	B

Table L-19d: With-Action Condition Sidewalk Analysis Saturday Midday

Location	Corner	Sidewalk Movement	Effective Width (ft.)	Two-Way Peak Hour Volume	PHF	Average Space (ft^2/p)	Platoon LOS
White Plains Road and East 241st Street	NE	North-South	7.0	384	0.77	175.8	B
		East-West	6.5	223	0.90	330.9	B
	SE	North-South	9.0	886	0.80	102.3	B
		East-West	13.0	400	0.77	315.8	B
	SW	North-South	13.8	156	0.93	1,038.1	A
		East-West	11.3	174	0.77	626.1	A
	NW	North-South	27.0	966	0.90	315.6	B
		East-West	11.8	553	0.80	215.7	B
Furman Avenue and East 241st Street	SW	North-South	6.3	408	0.45	86.4	C
		East-West	13.5	410	0.81	335.7	B
White Plains Road and East 241st Street	NE	East-West	3.5	319	0.63	85.9	C
East 241st Street betw. White Plains Road and Furman Avenue	Mid-block	East-West	13.0	410	0.77	308.0	B
Furman Avenue Betw. East 241st Street and East 240th Street	Mid-block	North-South	4.0	202	0.45	111.8	B
East 240th Street betw. White Plains Road and Furman Avenue	Mid-block	East-West	8.5	333	0.72	232.3	B
White Plains Road Betw. East 241st Street and East 240th Street	Mid-block	North-South	13.0	633	0.80	206.8	B

Table L- 20: With-Action Condition Crosswalk Analysis

Location	Crosswalk	Two-Way Peak Hour Volume	Average Space (ft^2/p)	LOS	Two-Way Peak Hour Volume	Average Space (ft^2/p)	LOS	Two-Way Peak Hour Volume	Average Space (ft^2/p)	LOS	Two-Way Peak Hour Volume	Average Space (ft^2/p)	LOS
		Weekday AM Peak Hour			Weekday Midday Peak Hour			Weekday PM Peak Hour			Saturday Midday Peak Hour		
White Plains Road and East 241st Street	North	209	49.6	B	489	36.7	C	417	21.3	D	367	48.8	B
	East	256	101.8	A	707	57.1	B	554	51.8	B	554	63.0	A
	South	358	38.8	C	918	23.1	D	687	21.6	D	674	36.6	C
	West	393	79.1	A	916	44.0	B	727	33.9	C	707	64.0	A

Table L-21: With-Action Condition Corner Analysis

Location	Corner	Two-Way Peak Hour Volume	Average Space (ft^2/p)	LOS	Two-Way Peak Hour Volume	Average Space (ft^2/p)	LOS	Two-Way Peak Hour Volume	Average Space (ft^2/p)	LOS	Two-Way Peak Hour Volume	Average Space (ft^2/p)	LOS
		Weekday AM Peak Hour			Weekday Midday Peak Hour			Weekday PM Peak Hour			Saturday Midday Peak Hour		
White Plains Road and East 241st Street	North-East	193	151.5	A	152	69.7	A	171	82.5	A	169	81.8	A
	South-East	43	301.9	A	47	123.7	A	35	171.6	A	43	170.5	A
	South-West	22	259.3	A	19	103.0	A	24	132.4	A	27	160.3	A
	North-West	197	621.6	A	124	338.2	A	177	347.8	A	238	421.8	A

PARKING

Existing Conditions

A detailed inventory of the area surrounding the project site was conducted on a typical weekday. In Existing Conditions, the Proposed Development Site (Projected Development Site 1) provides 63 off-street parking spaces, which are allocated to residential, commercial/office and industrial uses. It was determined that there are no available off-street parking facilities within a ¼-mile or a ½-mile radius of the project site. Therefore, an overnight on-street parking utilization survey within a ¼-mile radius of the project site was conducted.

As shown in Figure 24, the ¼-mile radius study area is generally bounded by East 243rd Street to the north, Bullard Avenue to the west, Baychester Avenue to the east and Nereid Avenue to the south. On-street parking regulations, capacity, and occupancy were inventoried for the study areas on a block-by-block basis and are shown in Tables L-22 and L-23. Many streets within the study areas have no posted parking regulations on either side of the street, and alternate side parking for street cleaning is regulated on several streets.

Table L-22: Study Area Parking Regulations

Index	Regulation
1	NO PARKING ANYTIME (DOUBLE ARROW)
2	NO STANDING ANYTIME (DOUBLE ARROW)
3	NO PARKING ANYTIME (ARROW)
4	NO STANDING ANYTIME (ARROW)
5	NO PARKING (SANITATION BROOM SYMBOL) 7:30AM-8AM EXCEPT SUN (DOUBLE ARROW)
6	NO PARKING (SANITATION BROOM SYMBOL) 8AM-8:30AM EXCEPT SUNDAY (DOUBLE ARROW)
7	2 HOUR METERED PARKING 8:30AM-7PM EXCEPT SUNDAY (DOUBLE ARROW)
8	2 HOUR METERED PARKING 8AM-7PM EXCEPT SUNDAY(DOUBLE ARROW)
9	1 HOUR METERED PARKING 8AM-7PM EXCEPT SUNDAY (ARROW)
10	BUS STOP SIGN (BUS & HANDICAP SYMBOLS) NO STANDING (DOUBLE ARROW)
11	BUS STOP SIGN (BUS & HANDICAP SYMBOLS) NO STANDING (ARROW)
12	NO STANDING HANDICAP BUS STOP (DOUBLE ARROW)
13	NO STANDING HANDICAP BUS STOP (ARROW)
14	BUS LAYOVER AREA NO STANDING ANYTIME (ARROW)
15	NO STANDING SCHOOL DAYS 7AM-4PM (DOUBLE ARROW)
16	NO STANDING SCHOOL DAYS 7AM-4PM (ARROW)
17	NO PARKING 7AM-4PM SCHOOL DAYS (ARROW)
18	NO PARKING 8AM-5PM MON THRU FRI (SINGLE ARROW)
19	NO PARKING 8AM-5PM MON THRU FRI (DOUBLE ARROW)
20	NO STANDING 6AM-5PM WED & SAT EXCEPT FARMERS MARKET (ARROW)
21	NO PARKING 8AM-6PM MON THRU FRI (SINGLE ARROW)
22	NO PARKING 8AM-6PM MON THRU FRI (DOUBLE ARROW)

Table L-23 below presents the on-street parking occupancy within a ¼-mile of the project site in Existing Conditions. As indicated in the table, there are approximately 2,119 legal on-street parking spaces within a ¼-mile of the project site, 86 percent of which were occupied in the overnight hours. Therefore, there are approximately 296 legal on-street parking spaces available during the overnight hours within ¼-mile radius of the project site.

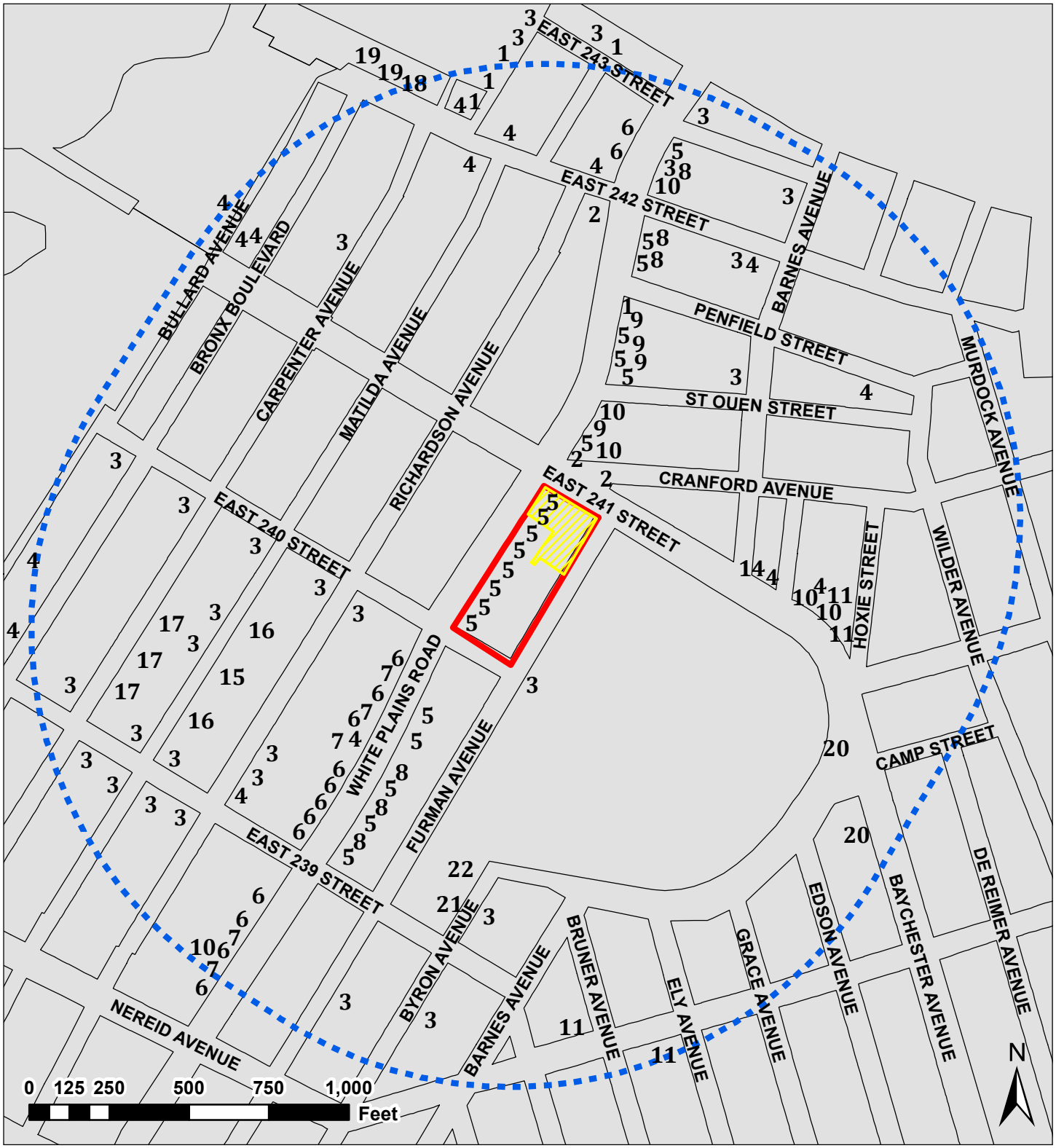
Table L-23: Existing Conditions On-Street Parking Utilization

Study Area	Capacity	Occupied Spaces	Available Spaces	Parking Utilization (%)
¼-Mile Radius	2,119	1,823	296	86%

FIGURE 24

PARKING REGULATIONS

EAST 241ST STREET REZONING



Directly Affected Area

Proposed Development Site

11 Parking Regulation Number

0.5-mile Study Area

WAKEFIELD, BRONX, NY

LANGAN

2026 No-Action Condition

In the future No-Action Condition, existing occupancies for on-street parking were increased in order to reflect future parking conditions. As recommended by the 2014 *CEQR Technical Manual*, a compounded annual background growth rate of 0.25 percent was applied to the existing occupied parking spaces for the first five years (2018 to 2022) and then a compounded background growth rate of 0.125 percent was used for the remaining four years (2023 to 2026). Since there are no other major development projects anticipated for completion in the study area by Build Year of 2026, no further adjustments were made to the No-Action Condition parking occupancies.

Table L-24 below presents the on-street parking occupancy within a ¼-mile of the project site in the future No-Action Condition. As indicated in the table, there are approximately 2,119 legal on-street parking spaces within a ¼-mile of the project site, 88 percent of which are anticipated to be occupied in the overnight hours. Therefore, there would be approximately 264 legal on-street parking spaces available during the overnight hours within ¼-mile radius of the project site.

Table L-24: No-Action Condition On-Street Parking Utilization

Study Area	Capacity	Occupied Spaces	Available Spaces	Parking Utilization (%)
¼-Mile Radius	2,119	1,855	264	88%

2026 With-Action Condition

In the future With-Action Condition, the existing 63 off-street parking spaces would be eliminated. The Proposed Action would provide off-street parking facilities with a total capacity of approximately 102 on-site accessory parking spaces, which will be allocated to residential and commercial/community uses. The Proposed Action would therefore provide 39 incremental off-street parking spaces.

As per the 2011-2015 American Community Survey (ACS), the average vehicle ownership rate per household for the study area is approximately 0.50 per household renter occupied units. The Proposed Action would develop 416 dwelling units generating a demand for 208 parking spaces based on ACS vehicle ownership rate. The 24-hour parking accumulation for this demand is shown in Table L-25.

Peak parking demand is anticipated to occur during the nighttime and overnight hours when residents of the proposed project would park and leave their vehicles overnight. The peak parking demand of 214 spaces is expected to occur between 8:00PM and 9:00PM. Out of the total parking demand, approximately 102 spaces will be accommodated in the on-site accessory parking facilities while the remaining 112 patrons are anticipated to seek off-site parking in the broader area. As shown in Table L-25, it is expected that the 264 available on-street parking spaces within a ¼-mile of the project site are adequate to accommodate the remaining 112 patrons. Therefore, the Proposed Action is not anticipated to result in a parking shortfall in the study area in the future With Action Condition.

Table L-25: Hourly Parking Accumulation

Time period	Local Retail Component			Community Facility Component			Residential Component			Weekday Parking Accumulation		
	In	Out	Accum.	In	Out	Accum.	In	Out	Accum.	In	Out	Accum.
Overnight			0			0			208			208
12:00 AM -- 1:00 AM	0	0	0	0	0	0	2	2	208	2	2	208
1:00 AM -- 2:00 AM	0	0	0	0	0	0	2	2	208	2	2	208
2:00 AM -- 3:00 AM	0	0	0	0	0	0	2	2	208	2	2	208
3:00 AM -- 4:00 AM	0	0	0	0	0	0	2	2	208	2	2	208
4:00 AM -- 5:00 AM	0	0	0	0	0	0	2	2	208	2	2	208
5:00 AM -- 6:00 AM	0	0	0	0	0	0	4	13	199	4	13	199
6:00 AM -- 7:00 AM	0	0	0	0	0	0	11	38	171	11	38	171
7:00 AM -- 8:00 AM	1	0	1	0	0	0	13	40	144	14	40	145
8:00 AM -- 9:00 AM	3	3	1	1	1	0	19	108	55	24	113	56
9:00 AM -- 10:00 AM	2	1	2	1	1	0	24	35	44	26	37	46
10:00 AM -- 11:00 AM	6	3	4	1	1	0	24	40	28	30	44	32
11:00 AM -- 12:00 PM	6	6	4	1	1	0	24	33	18	31	40	23
12:00 PM -- 1:00 PM	19	19	4	1	1	0	33	33	18	53	53	23
1:00 PM -- 2:00 PM	21	19	7	0	0	0	32	32	18	54	51	25
2:00 PM -- 3:00 PM	8	7	9	1	1	0	35	33	20	44	40	29
3:00 PM -- 4:00 PM	6	6	9	1	1	0	49	29	40	56	36	49
4:00 PM -- 5:00 PM	7	7	9	1	1	0	82	47	75	90	55	84
5:00 PM -- 6:00 PM	11	11	9	2	2	0	98	42	131	110	54	140
6:00 PM -- 7:00 PM	6	8	6	1	1	0	64	33	162	70	42	168
7:00 PM -- 8:00 PM	5	7	3	0	0	0	58	26	195	63	33	198
8:00 PM -- 9:00 PM	2	4	1	0	0	0	35	16	213	37	20	214
9:00 PM -- 10:00 PM	2	2	1	0	0	0	11	13	211	13	15	213
10:00 PM -- 11:00 PM	0	0	1	0	0	0	7	9	209	7	9	211
11:00 PM -- 12:00 AM	0	0	1	0	0	0	7	7	209	7	7	211

Notes: Temporal distribution based on:
1. 2014 CEQR Technical Manual.
2. East 126th Street Bus Depot Memorial & Mixed-Use Project GEIS, 2016 (CEQR No. 16DME011M).

VEHICULAR AND PEDESTRIAN SAFETY EVALUATION

Table L-26 summarizes the crash data obtained from the New York State Department of Transportation (NYSDOT) for the most recent three year period from 2013 to 2015.

Table L-26: Crash Data Summary 2013-2015

Intersection ID	Intersection Name	Pedestrian Injury Crashes			Bicycle Injury Crashes			Total Bicycle + Pedestrian Injury Crashes Combined			Motorist Injury Crashes			Total Crashes (Reportable + Non-Reportable)		
		2013	2014	2015	2013	2014	2015	2013	2014	2015	2013	2014	2015	2013	2014	2015
1	Nereid Avenue and White Plains Road	4	1	3	0	0	0	4	1	3	1	3	1	4	7	5
2	East 241st Street and White Plains Road	1	2	2	0	1	0	1	3	2	8	3	3	10	7	6
3	East 241st Street and Furman Avenue	1	1	0	0	0	0	1	1	0	0	0	2	1	1	3
4	East 240th Street and Furman Avenue	0	0	0	0	0	0	0	0	0	0	0	0	4	2	2
5	East 240th Street and White Plains Road	0	0	0	0	0	0	0	0	0	2	1	2	8	6	5

Source: NYSDOT

The crash data was summarized to determine if any of the criteria for a high crash location was exceeded in any consecutive 12 months of the most recent three-year period. Based on this information, none of the locations in the traffic study area are identified as high-crash locations. Therefore, the Proposed Action would not adversely affect the vehicle and pedestrian safety conditions in the study area.

INTRODUCTION

This section assesses the potential impact of the Proposed Action on ambient air quality (i.e., the quality of the surrounding air), or effects on a proposed project because of ambient air quality. Air quality can be affected by mobile sources (pollutants produced by motor vehicles), and by stationary sources (pollutants produced by fixed facilities). According to the *CEQR Technical Manual*, an air quality assessment should be carried out for actions that can result in either significant adverse mobile source or stationary source air quality impacts. The five (5) Projected and five (5) Potential sites are included in the Air Quality stationary source analysis as part of the requirement to analyze site specific impacts associated with the proposed rezoning plan.

This section evaluates the potential for significant adverse air quality impacts that may result from the Proposed Action and the potential adverse impacts from surrounding existing sources.

METHODOLOGY

The analysis methodology is based on the guidelines in the *CEQR Technical Manual*. The first step in performing an air quality analysis is to determine the appropriate Study Area. Study areas for the analysis of stationary source impacts depend on the magnitude of the pollutant emission rates from the new source(s), the relative harmfulness of the compounds emitted, the characteristics of the systems that would discharge such pollutants (*e.g.*, stack heights, stack exhaust velocities), and the surrounding topography relative to these sources (e.g., tall residential buildings near shorter stacks). The 400-foot Study Area for a preliminary screening analysis includes nearby buildings with heights similar to or greater than the stack.

The Proposed Action was evaluated for potential air quality impacts from stationary sources including the project's HVAC sources as well as any potential industrial sources within 400 feet, and large or major sources within 1,000 feet of the Project Site. A mobile source screening analysis was also conducted.

Background Concentrations

Background concentrations are those pollutant concentrations originating from distant sources that are not directly included in the modeling analysis, which directly accounts for stationary sources from the Project. Background concentrations are added to modeling results to obtain total pollutant concentrations at an analysis site.

The background concentrations used in the air quality analysis were based on concentrations recorded at a monitoring station representative of the county or from the nearest available monitoring station and in the statistical format of the NAAQS, as provided in the *CEQR Technical Manual*. The background concentrations are presented in Table K-1.

Table K-1: Background Concentrations

Location	Station	Pollutant	Averaging period	Units	Calculation Method	Background level	NAAQS/ *De Minimis*
Bronx	Botanical Garden (Harding Lab /Pfizer Lab)	$PM_{2.5}$	24-hour	$\mu g/m^3$	3-year average of 98th percentile for 2014, 2015 and 2016	24.0	35 (*De minimis* Increment = 5.50)
Bronx	Botanical Garden (Harding Lab /Pfizer Lab)	$PM_{2.5}$	Annual	$\mu g/m^3$	3-year average of annual mean for 2014, 2015 and 2016	9.0	12 (*De minimis* increment = 0.3)
Bronx	Botanical Garden (Harding Lab /Pfizer Lab)	NO_2[1]	1-hour	$\mu g/m^3$	3-year average of 98th percentile for 2014, 2015 and 2016	108[1]	188
Bronx	Botanical Garden (Harding Lab /Pfizer Lab)	NO_2	Annual	$\mu g/m^3$	Annual average for 2016	29.3	100

[1] Seasonal and hourly averaged background values were used for the 1-hour NO_2 modeling using the PVMRM methodology in AERMOD.

Mobile Source Analysis

Screening Assessment

Peak hour incremental vehicular traffic data for the study area was obtained from the Transportation Study and used for the screening of the Proposed Action. This includes the incremental peak hour traffic volumes of autos and trucks. Trucks were considered as heavy duty diesel vehicles for conservatism. Auto traffic volumes were considered to include all vehicular movements except for heavy duty diesel vehicles. The screening levels will be compared to the allowable thresholds to determine if a detailed analysis is warranted.

Parking Garage Analysis

The total increment of additional on-site parking generated by the proposed development will be considered and compared to the allowable threshold increment to determine if a detailed analysis is warranted.

Stationary Source Analysis

A stationary source analysis was conducted to evaluate potential impacts from the Project's heat and hot water systems. In addition, an assessment was conducted to determine the potential for impacts due to industrial activities within the affected area, and from any nearby large or major emission sources.

Individual Heat and Hot Water Systems

A screening analysis was performed to assess air quality impacts associated with emissions from heat and hot water systems associated with the Project. The methodology described in the *CEQR Technical Manual* was used for the analysis and considered impacts on sensitive uses (i.e., existing residences and other developments under construction). The potential for "Project on Existing impacts" and "Project-on-Project impacts" for both Projected and Potential Development Sites will be assessed. The nearest existing building and/or Projected/Potential development of a similar or greater height will be analyzed as the potential receptor. Because information on the HVAC systems' design is not available, it will be assumed that exhaust stacks would be located 3 feet above roof height (as per the 2014 CEQR Technical Manual), and that No. 2 fuel oil may be utilized.

The methodology determines the threshold of development size below which the action would not have a significant adverse impact. The screening procedures utilize information regarding the type of fuel to be used, the maximum development size (in GSF), and the heat and hot water systems exhaust stack height to evaluate whether a significant adverse impact may occur. Based on the distance from the development site to the nearest building of similar or greater height, if the maximum development size is greater than the threshold size in the *CEQR Technical Manual*, there is the potential for significant air quality impacts, and a refined dispersion modeling analysis would be required. Otherwise, the source passes the screening analysis, and no further analysis is required.

The following sequential analyses were conducted until a passing result was obtained:

1. Fuel oil operation analysis using the graphical screening procedure for fuel oil firing (Figure 17-5 in the Appendix of the *CEQR Technical Manual*);
2. Natural gas operation analysis using the graphical screening procedure for natural gas firing (Figure 17-7 in the Appendix of the *CEQR Technical Manual)*;
3. Refined analysis for natural gas operation;
4. Further refined analysis for natural gas using a taller stack or increased setback; and
5. Further analysis for natural gas using low NO_x (natural gas) boiler.

If the results indicate that the first step using fuel oil is not adequate, then an (E) designation is placed on the site outlining the use of natural gas and possibly the need for a taller stack, increased setback and/or low NO_x boiler. If the results for Steps 1 demonstrate compliance, then the heat and hot water systems for the site would result in no potential significant adverse air quality impacts using No. 2 fuel oil.

Refined Dispersion Analysis for Individual HVAC Systems

If the project did not pass the screening analyses using the *CEQR Technical Manual* procedures, a refined modeling analysis was performed for natural gas only. The CEQR TM indicates that the detailed analysis can be conducted using AERSCREEN, however AERMOD is more suitable for this project due to the close proximity of the sites. Concentrations of nitrogen dioxide (NO_2), and particulate matter ($PM_{2.5}$) were determined at off-site receptors sites, as well as on Projected and Potential Development Site receptors. Receptors were situated at elevated locations that could represent operable windows and outside air intakes. Pedestrian level receptors were not included as the HVAC sources will be located at roof level, and the worst-case impacts will occur at elevated levels. AERMOD simulations were conducted with and without building downwash (the downwash option accounts for the effects on plume dispersion created by the structure the stack is located on, and other nearby structures). The analyses of potential impacts from exhaust stacks were made assuming urban dispersion. Surface roughness was determined with the AERSURFACE model as allowed by the *CEQR Technical Manual*.

For natural gas, the primary pollutants of concern are NO_2 and PM. Emission rates were determined based on emission factors in the natural gas combustion sections of the U.S. EPA's AP-: Compilation of Air Emission Factors. Specifically, emission rates for the natural gas combustion were estimated using the emission factors in Table 1.4-2 in Chapter 1.4 Natural Gas Combustion. PM (Total) was assumed to be $PM_{2.5}$, so the PM emission factor was used to estimate $PM_{2.5}$ emissions.

The 1-hour and 24-hour emissions rates were increased by a factor of 3.65 to account for a typical heating season of 100 days.

One-hour average NO_2 concentrations associated with the proposed development's hot water systems will be estimated using AERMOD model's Plume Volume Molar Ratio Method (PVMRM) module to analyze chemical transformation within the model. An initial NO_2 to NO_x ratio of ten percent at the source exhaust stack will be assumed, which is considered representative for boilers.

For the refined dispersion analysis, five years of meteorological data (2012-2016) from La Guardia International Airport and concurrent upper air data from Brookhaven, New York, will be utilized for the simulation program. Predicted values will be compared with National Ambient Air Quality Standards (NAAQS) for NO_2, and PM_{10}, and the CEQR *de minimis* criteria for $PM_{2.5}$. In the event that exceedances are predicted, the air quality (E) designation proposed for the Projected or Potential Development Site will also include HVAC exhaust stack restrictions that would be required to avoid a significant adverse air quality impact.

Cumulative Impacts from Heat and Hot Water Systems

In addition to the individual source analysis, groups or "clusters" of heat and hot water sources with similar stack heights were analyzed, to address the cumulative impacts of multiple sources. The affected area was reviewed to determine areas where clusters with high density of development sites with similar building heights would be located which could result in cumulative impacts on nearby buildings of a similar or greater height. A total of two clusters were selected for analysis. The development sites associated with each cluster and their location are presented in Table K-2.

Table K-2: Cluster Analysis Sites

Cluster	Development Sites
1	3 + 4
2	1 + E

Source: *DCP email, November 1, 2017*

The cluster sites were assessed using AERMOD, following the same methodology as described above for the individual HVAC analysis.

Industrial Source Analysis

Pollutants emitted from the exhaust vents of existing permitted and future industrial facilities were examined to identify potential adverse impacts on future residents of the projected and potential development sites. All existing industrial air pollutant emission sources within 400 feet of a projected or potential development site boundary were considered for inclusion in the air quality impact analyses. Based on a review of the New York City DEP Clean Air Tracking System (CATS) data base and feedback received from the DCP on the proposed modeling protocol, the following sites were found to have active auto body shops with spray paint booths:

- Block 5084, Lot 61
- Block 5084, Lot 50

The following site was found to have an active woodworking shop:

- Block 5084, Lot 30

A survey of aerial imagery for the site revealed no additional sites within a 400 feet radius of the site. A request was made to the DEP to locate any existing operating permits.

For sources that perform paint spraying, such as auto body shops, emission rate information from DEP permits was used in the analysis. For auto body shops without VOC composition information in the DEP permit, VOC composition from an auto body shop in Bronx was applied. The information provides maximum percentage by weight for individual air toxics that are commonly found in coatings used in paint spraying operations. The solvent usage from a source permit for each auto body shop assessed was multiplied by the weight percentage for each air toxic to estimate the maximum emission rate for the air toxics, by source.

A DEP permit was not available for the woodworking site. Therefore, the woodworking shop emission rate information from the DEP permit for Unit All Cabinetry Inc. was applied in the assessment.

Large Or Major Sources

A review of existing large and major sources of emissions (i.e., sources having a Title V or State Facility Air Permit) within 1,000 feet of the Project Site was performed to assess potential effects on the Project Sites. A search for Title V and State Facility Air Permits was also conducted using registration lists maintained by NYSDEC and EPA.

ASSESSMENT

Mobile Source Analysis

Screening Analysis

The *CEQR Technical Manual* describes a screening evaluation based on predicted incremental traffic counts determined from a separate traffic study to determine whether any roadway intersections would need to be evaluated. The increments are 170 or more automobile trips in the peak hour for CO for the Project Site. For $PM_{2.5}$ several thresholds of incremental peak hour trips for heavy duty diesel vehicles (HDDV) are specified depending on the type of roadway, ranging from 12 to 23 HDDVs. The expected traffic levels generated by the Proposed Action are provided in Table K-3.

Table K-3: Peak Hour Project Generated Vehicle Trips

Peak Hour	Intersection	Passenger Cars	Trucks	Total
Weekday AM	E 241st Street & Furman Avenue	75	5	80
	E 240st Street & Furman Avenue	41	5	46
	E 241st Street & White Plains Road	82	5	87
	E 240st Street & White Plains Road	67	5	72
Weekday Midday	E 241st Street & Furman Avenue	81	5	86
	E 240st Street & Furman Avenue	38	5	43
	E 241st Street & White Plains Road	80	5	85
	E 240st Street & White Plains Road	36	5	41
Weekday PM	E 241st Street & Furman Avenue	111	1	112
	E 240st Street & Furman Avenue	60	1	61
	E 241st Street & White Plains Road	98	1	99
	E 240st Street & White Plains Road	45	1	46
Saturday Midday	E 241st Street & Furman Avenue	93	0	93
	E 240st Street & Furman Avenue	57	0	57
	E 241st Street & White Plains Road	92	0	92
	E 240st Street & White Plains Road	45	0	45

As shown in Table K-3, the maximum number of automobile peak hour vehicle trips at each intersection is 112 and the maximum for HDDVs is five. The incremental peak hour auto trips are below the CO screening thresholds. The equivalent heavy-duty diesel vehicle numbers are below the $PM_{2.5}$ screening thresholds, based on classifying the road type of E 240st Street & Furman Avenue as a collector road and the other intersections as principal or minor arterial road types. As a result, a detailed intersection analysis of mobile source emissions is not necessary.

Parking Garage Analysis

It is anticipated that a total increment of 38 parking spaces will be provided with the new project. Based on the small size of the garage and increment, which is below the increment of 85 parking spaces, a detailed analysis is not necessary.

Stationary Source Analysis

Individual Heat and Hot Water Systems

Screening Analysis

The first step in the analysis of the HVAC systems for the Projected and Potential Development Sites is to consider impacts following the screening procedures outlined in the *CEQR Technical Manual* to determine the potential for impacts on existing developments. The nearest existing or future building of a similar or greater height relative to the emission release height for the HVAC exhaust source in question was considered as the potential receptor for the screening evaluation.

The results of the screening assessment (graphical screening procedure using Figure 17-5 and 17-7 in the *CEQR Technical Manual*) are summarized in Table K-4. Overall, it was determined significant adverse effects could occur with natural gas operation at Site 1, 2, 3, A and D, and a refined analysis is required for those sites.

Table K-4: Screening Analysis Summary for Stationary Sources

Development Site	Total with Action Building Area (GSF; sqft)	Building Height (ft)	Stack Height (on tallest tier of building; ft)	Fuel Oil Screening Result (Figure 17-5 in CEQR Appendix)	Natural Gas Screening Result (Figure 17-5 in CEQR Appendix)	Screening Outcome
1	207,925	115	3	fail	fail	***fail; refined analysis required***
2	40,133	115	3	fail	fail	***fail; refined analysis required***
3	123,534	115	3	fail	fail	***fail; refined analysis required***
4	103,955	115	3	pass	pass	pass; refined analysis is not required
5	51,079	115	3	pass	pass	pass; refined analysis is not required
A	9,389	105	3	fail	fail	***fail; refined analysis required***
B	23,520	115	3	pass	pass	pass; refined analysis is not required
C	37,044	115	3	pass	pass	pass; refined analysis is not required
D	20,574	95	3	fail	fail	***fail; refined analysis required***
E	38,634	115	3	pass	pass	pass; refined analysis is not required

Refined Analysis

The development sites identified above that did not pass the screening analysis were further analyzed using refined dispersion modeling. The refined dispersion modeling analysis was performed for $PM_{2.5}$ and NO_2. The analysis was performed using calculated emission rates for natural gas combustion. If the natural gas emissions still resulted in a failure of the NAAQS or de minimis criteria, further refined analysis was conducted with natural gas emissions and increased stack setback or a taller stack considered until the source met the respective criteria.

Background, NAAQS limits and de minimis criteria increment limit values are shown in Table K-1. Note that for the NO_2 1-hour calculations, seasonal and hourly average background values for NO_N and ozone were used in the AERMOD model with the PVMRM algorithm, as described in the methodology section above. As previously mentioned, the 1-hour and 24-hour HVAC emissions were increased by a factor of 3.65 to account for a 100-day heating season.

Discrete receptors (i.e., locations at which concentrations are calculated) were modeled along the existing and proposed building façades to represent potentially sensitive locations such as operable windows and intake vents. Columns of receptors at spaced intervals on the modeled buildings were analyzed at several elevations on each building.

The predicted concentrations for the pollutants of interest for the natural gas refined analysis are shown in Table K-5. All predicted concentrations are below their respective NAAQS or de minimis criteria values. This refined analysis indicated that the HVAC systems for the Projected and Potential Development Sites would result in no potential significant adverse air quality impacts, with the (E) Designations summarized in Table K-6.

Cumulative Impact from Heat and Hot Water Systems (Cluster Analysis)

An analysis was conducted to evaluate potential air quality impacts from groups or "clusters" of heat and hot water systems in close proximity with similar stack heights. Two clusters were identified.

Screening Analysis

No screening analysis was performed for the cumulative impacts from heat and hot water systems based on the assumption that a refined analysis would be necessary to demonstrate compliance with the applicable NAAQS and de minimis criteria. Two clusters were examined with refined modeling as discussed below.

Refined Analysis

A refined analysis was performed for all pollutants using the AERMOD model. The analysis was performed using the EPA AERMOD model using the general assumptions and procedures outlined earlier for individual development sites. The cumulative analysis also included adjusting the stack heights for Development Site 3 and 4 in Cluster 1 and E in Cluster 2 until a passing result was obtained.

The results of the analysis determined that Clusters 1 and 2 would not result in significant adverse air quality impacts when the individual stacks for several of the sites included in the clusters were raised higher than necessary for the individual source analysis. The predicted $PM_{2.5}$ and NO_2, concentrations for the refined analysis are presented in Table K-5. Development Site 4 in Cluster 1 would require conversion to natural gas, and an additional (E) Designation will be placed on these sites. The cumulative analysis increased the required stack height for sites: 3, 4, and E. The required changes to ensure there are no adverse impacts for the cumulative assessment are summarized in the (E) designation in Table K-6 at the conclusion of this report.

Table K-5: Maximum Predicted Impacts from Development Site Stationary Sources on Existing and Projected/Proposed Buildings (in µg/m³)

Development Site	1-hour NO_2 [1]	Annual NO_2	24-hour $PM_{2.5}$	Annual $PM_{2.5}$	Pass/Fail	Requires (E) Designation
NAAQS or Increment Limit	*188*	*100*	*5.5*	*0.3*	-	-
1	164.2	30.3	2.3	0.10	Pass	Yes
2	161.8	29.9	1.6	0.06	Pass	Yes
3	142.4	29.9	1.1	0.06	Pass	Yes
4	Passed Screening	Passed Screening	Passed Screening	Passed Screening	Pass	Yes
5	Passed Screening	Passed Screening	Passed Screening	Passed Screening	Pass	Yes
A	155.8	30.0	1.8	0.07	Pass	Yes
B	Passed Screening	Passed Screening	Passed Screening	Passed Screening	Pass	Yes
C	Passed Screening	Passed Screening	Passed Screening	Passed Screening	Pass	Yes
D	174.7	30.0	2.2	0.07	Pass	Yes
E	Passed Screening	Passed Screening	Passed Screening	Passed Screening	Pass	Yes, a taller stack is required for Cluster #2 to pass [2]
Cluster #1 (3 + 4)	184.8	30.5	2.3	0.12	Pass	-
Cluster #2 (1 + E)	169.1	30.5	2.8	0.15	Pass	-

Note: AERMOD was run with and without building downwash. The maximum modeled concentration between the two scenarios is shown in the table. All sites that did not pass the initial screening (Site 1, 2, 3, A and D) were modeled with natural gas.
[1] NO_2 concentrations include ambient background values. Seasonal and hourly averaged background values were used for the 1-hour NO_2 modelling using the PVMRM methodology in AERMOD.
[2] Site E was modeled with a 3 ft stack in the screening. A 20 ft stack is required for the AERMOD modelling of Cluster #2.

Industrial Manufacturing Source Analysis (Air Toxics)

As discussed above in Methodology, three existing industrial sources were analyzed. The results in Table K-6 demonstrate that there would be no predicted significant adverse air quality impacts from existing industrial sources (two spray booths and one woodworking shop) in the area based on the assumptions described in the methodology.

Table K-6: Maximum Predicted Impacts Concentrations from Existing Industrial Sources

Pollutant	**Chemical Abstract Service (CAS) Number**	**AERMOD Model Short Term Concentration Impact (µg/m³)**	**SGC (µg/m³)**	**AERMOD Model Annual Concentration Impact (µg/m³)**	**AGC (µg/m³)**
Acetone	67-64-1	400	180,000	0.93	30,000
Aliphatic Hydrocarbon	64742-89-8	N/A	N/A	0.22	3200
Aromatic Petroleum Distillates (naptha heavy aromatic)	64742-94-5	N/A	N/A	0.11	100
Butane	106-97-8	N/A	238,000	N/A	N/A
Ethanol	64-17-5	N/A	N/A	0.04	45,000
Ethyl 3-ethoxypropianate	763-69-9	N/A	140	0.19	64
Ethylbenzene	100-41-4	N/A	N/A	0.11	1,000
Methyl ethyl ketone	78-93-3	74.4	13,000	0.17	5,000
N-butyl acetate	123-86-4	46.5	95,000	0.11	17,000
Propane	74-98-6	N/A	N/A	0.24	43,000
Stoddard Solvents	8052-41-3	N/A	N/A	0.22	900
Toluene	108-88-3	93.0	37,000	0.22	5,000
Xylene	1330-20-7	93.0	22,000	0.22	100
Generic $PM_{2.5}$ solids (auto body & wood)[1,2]	NY075-02-5	100	88 (Federal)	0.44	12 (Federal)

Source: *NYSDEC, DAR-1 AGC/SGC Tables, August 2016.*
Notes:
[1] Pollutant includes emissions from both Particulates (NY075-00-0) and Total Solid Particulate (NY079-00-0).
[2] Conservatively assumes all particulate emissions would be $PM_{2.5}$. SGC and AGC from Particulate ($PM_{-2.5}$) used.
"N/A" indicates that either the SGC or AGC does not exist for this pollutant.

Using the predicted concentrations of each pollutant, the maximum hazard index was calculated for the development site associated with the Proposed Actions. The hazard index approach was used to determine the effects of multiple non-carcinogenic compounds. None of the compounds for the auto body spray booth industrial sources were found to have carcinogenic unit risk factors, so only annual AGC values were used.

Table K-7 presents the results of the assessment of cumulative non-carcinogenic effects on the proposed actions. As shown in the table, the results of this assessment indicated that there would be no significant adverse air quality impacts on the projected and potential development sites because the hazard index for any affected receptor on the site would not exceed 1.0. Also, none of the compounds have a cancer risk factor.

Table K-7: Estimated Maximum Hazard Index from Existing Industrial Sources

Pollutant	**CAS Number**	**Estimated Annual Pollutant Concentration (µg/m³)**	**AGC (µg/m³)**	**Ratio of Annual Concentration to AGC**
Acetone	67-64-1	0.93	30,000	1.9E-5
Aliphatic Hydrocarbon	64742-89-8	0.22	3200	
Aromatic Petroleum Distillates (naptha heavy aromatic)	64742-94-5	0.11	100	N/A
Butane	106-97-8	N/A	N/A	N/A
Ethanol	64-17-5	0.04	45,000	N/A
Ethyl 3-ethoxypropianate	763-69-9	0.19	64	N/A
Ethylbenzene	100-41-4	0.11	1000	N/A
Methyl ethyl ketone	78-93-3	0.17	5000	7.4E-5
N-butyl acetate	123-86-4	0.11	17,000	3.3E-5
Propane	74-98-6	0.24	43,000	N/A
Stoddard Solvents	8052-41-3	0.22	900	1.0E-3
Toluene	108-88-3	0.22	5,000	7.4E-5
Xylene	1330-20-7	0.22	100	6.0E-3
Generic $PM_{2.5}$ solids (auto body)[1,2]	NY075-02-5	0.44	12 (Federal)	8.5E-4
Total Hazard Index				**0.00435**
Hazard Index Threshold Value				**1.0**

Source: *NYSDEC, DAR-1 AGC/SGC Tables, August 2016.*
Notes: [1] Pollutant includes emissions from both Particulates (NY075-00-0) and Total Solid Particulate (NY079-00-0)
[2] Conservatively assumes all particulate emissions would be $PM_{2.5}$. SGC and AGC from Particulate ($PM_{-2.5}$) used.

Large or Major Sources

A search for existing large and major sources of emissions (i.e., sources having a Title V or State Facility Air Permit) within 1,000 feet of the Project Site was performed using registration lists maintained by NYSDEC and EPA. No large or major sources were identified with Title V or State permits. Therefore, no significant air quality impacts are expected at the new project from existing large or major sources, and a detailed analysis is not warranted.

Odors

Within the Directly Affect Area is an existing poultry establishment (711 E. 240th Street; tax lot 33). In the With-Action Condition, the poultry establishment would be developed as a projected development site (Projected Development Site 3). Prior to any future development on the site, the facility would continue to be subject to the provisions of State law (6 NYCRR 211-1) prohibiting the emission of odors that could adversely affect new With-Action development on other sites within the Directly Affected Area. Specifically, 6 NYCRR 211-1 states: "No person shall cause or allow emissions of air contaminants to the outdoor atmosphere of such quantity, characteristic or duration which are injurious to human, plant, or animal life or to property, or which unreasonably interfere with the comfortable enjoyment of life or property. Notwithstanding the existence of specific air quality standards or emission limits, this prohibition applies, but is not limited to, any particulate, fume, gas, mist, odor, smoke, vapor, pollen, toxic or deleterious emission, either alone or in combination with others." Given the poultry establishment is expected to be redeveloped by 2026, the Proposed Actions would not result in adverse impacts associated with odors. In addition, the provisions of NYCRR 211-1 would ensure that the existing establishment would not adversely affect new With-Action development on other sites within the Directly Affected Area.

CONCLUSION

The Proposed Action would not result in any significant adverse stationary source or mobile air quality impacts. The Projected and Potential Development Sites would not result in traffic such that it would trigger CEQR thresholds requiring additional mobile source air quality analysis. An analysis of the development under the Proposed Action showed no expected adverse stationary source air quality effects on existing nearby buildings of equal or greater height, provided the sole source of fuel for Site 1, 2, 3, 4, A and D is natural gas with the stack heights and setback locations listed in the (E) Designations in Table K-8. Furthermore, additional analysis of industrial and manufacturing uses within the Study Area is not warranted. Based on this assessment, the Projected and Potential Development Sites would not result in any adverse air quality impacts.

To prevent Project-on-Existing and Project-on-Project air quality impacts from stationary sources, an (E) designation **(E-484)** will be assigned to the Project building for air quality. By placing (E) designations on sites where there is a known or potential environmental concern, the potential for an adverse impact to human health and the environment resulting from the Proposed Action would be reduced or avoided. The (E) designation provides the impetus to identify and address facilities, activities or environmental conditions so that significant adverse impacts during site development would be reduced. The New York City Office of Environmental Remediation (OER) would provide regulatory oversight of the environmental investigation and remediation during this process. Building permits are not issued by the DOB without prior OER approval of the investigation and/or remediation pursuant to the provisions of Section 11-15 of the New York City Zoning Resolution (Environmental Requirements). The requirements of (E) designation **(E-484)** are summarized in Table K-8.

Table K-8: Requirements of the (E) Designation (E-484)

Development Site	Block	Lot	Proposed (E) Designation
1	5087	1, 9 and 12	Any new residential and/or commercial development on Block 5087, Lot 1, 9 and 12 must exclusively use natural gas as the type of fuel for HVAC systems, and ensure that the heating, ventilating and air conditioning stack(s) is located at least 137 feet above grade and at least 59 feet away from the westerly lot line facing E. 240st Street and at least 20 feet away from the northerly lot line facing White Plains Road, to avoid any potential significant air quality impacts.
2	5087	16 and 18	Any new residential and/or commercial development on Block 5087, Lot 16 and 18 must exclusively use natural gas as the type of fuel for HVAC systems, and ensure that the heating, ventilating and air conditioning stack(s) is located at least 124 feet above grade and at least 66 feet away from the westerly lot line facing E. 240st Street and at least 9 feet away from the easterly lot line facing E 241st Street, to avoid any potential significant air quality impacts.
3	5087	22, 24, 28, 33 and 128	Any new residential and/or commercial development on Block 5087, Lot 22, 24, 28, 33 and 128 must exclusively use natural gas as the type of fuel for HVAC systems, and ensure that the heating, ventilating and air conditioning stack(s) is located at least 137 feet above grade and at least 102 feet away from the easterly lot line facing E. 241st Street and at least 10 feet away from the northerly lot line facing White Plains Road, to avoid any potential significant air quality impacts.
4	5087	40	Any new residential and/or commercial development on Block 5087, Lot 40 must exclusively use natural gas as the type of fuel for HVAC systems, and ensure that the heating, ventilating and air conditioning stack(s) is located at the highest tier or at least 118 feet above grade and at least 70 feet away from the easterly lot line facing E. 241st Street and at least 70 feet away from the southerly lot line facing Furman Avenue, to avoid any potential significant air quality impacts.
5	5087	48	Any new residential and/or commercial development on Block 5087, Lot 48 must exclusively use natural gas as the type of fuel for HVAC systems, and ensure that the heating, ventilating and air conditioning stack(s) is located at the highest tier or at least 118 feet above grade and at least 60 feet away from the southerly lot line facing Furman Avenue, to avoid any potential significant air quality impacts.
A	5087	13 and 65	Any new residential and/or commercial development on Block 5087, Lot 13 and part of 65 must exclusively use natural gas as the type of fuel for HVAC systems, and ensure that the heating, ventilating and air conditioning stack(s) is located at least 120 feet above grade and at least 14 feet away from the easterly lot line facing E. 241st Street and at least 52 feet away from the southerly lot line facing Furman Avenue, to avoid any potential significant air quality impacts.
B	5087	14 and 65	Any new residential and/or commercial development on Block 5087, Lot 14 and 65 must exclusively use natural gas as the type of fuel for HVAC systems, and ensure that the heating, ventilating and air

Development Site	Block	Lot	Proposed (E) Designation
			conditioning stack(s) is located at the highest tier or at least 118 feet above grade and at least 30 feet away from the westerly lot line facing E. 240th Street, to avoid any potential significant air quality impacts.
C	5087	20 and 65	Any new residential and/or commercial development on Block 5087, Lot 20 and part of 65 must exclusively use natural gas as the type of fuel for HVAC systems, and ensure that the heating, ventilating and air conditioning stack(s) is located at the highest tier or at least 118 feet above grade and at least 40 feet away from the northerly lot line facing White Plains Road, to avoid any potential significant air quality impacts.
D	5087	53 and 54	Any new residential and/or commercial development on Block 5087, Lot 53 and 54 must exclusively use natural gas as the type of fuel for HVAC systems, and ensure that the heating, ventilating and air conditioning stack(s) is located at least 121 feet above grade and at least 30 feet away from the easterly lot line facing E. 241st Street and at least 20 feet away from the northerly lot line facing White Plains Road, to avoid any potential significant air quality impacts.
E	5087	55 and 58	Any new residential and/or commercial development on Block 5087, Lot 55 and 58 must exclusively use natural gas as the type of fuel for HVAC systems, and ensure that the heating, ventilating and air conditioning stack(s) is located at least 135 feet above grade and at least 40 feet away from the easterly lot line facing E. 241st Street and at least 40 feet away from the southerly lot line facing Furman Avenue, to avoid any potential significant air quality impacts.

ATTACHMENT N. NOISE

INTRODUCTION

According to the *CEQR Technical Manual*, the goal of a CEQR noise assessment is to determine both (1) a proposed project's potential effects on sensitive noise receptors, including the effects on the level of noise inside residential, commercial, and institutional facilities (if applicable), and at open spaces, and (2) the effects of ambient noise levels on new sensitive uses introduced by a proposed project. If significant adverse impacts are identified, CEQR requires such impacts to be mitigated or avoided to the greatest extent practicable.

According to the *CEQR Technical Manual*, initial impact screening considers whether a proposed project would: (1) generate any mobile or stationary sources of noise; and/or (2) be located in an area with existing high ambient noise levels. For a mobile source analysis to be triggered, a project must impact vehicular traffic noise, aircraft noise, and/or train noise. Based on the *CEQR Technical Manual*, an initial noise assessment on vehicular traffic noise is necessary if a proposed project would (1) generate or reroute traffic; or (2) introduce a new receptor near a heavily trafficked thoroughfare. In order for a stationary source analysis to be triggered, a proposed project must either (1) cause a substantial stationary source to be operating within 1,500 feet of a receptor, with direct line of sight to that receptor; or (2) introduce a receptor in an area with high ambient noise levels resulting from stationary sources, such as enclosed manufacturing activities or other loud uses.

According to the *CEQR Technical Manual*, a mobile source noise assessment is required if a proposed project results in an increase in passenger car equivalent (PCE) values by 100 percent or more, which is the equivalent of 3 dBA or more. Based on the traffic analysis in Attachment J, "Transportation," the Proposed Action would not result in an increase in PCE values by 100 percent, therefore a mobile source noise analysis is not required.

Because the Directly Affected Area is within 1,500 feet of an elevated rail line, a noise analysis was conducted to determine the level of building attenuation necessary to ensure that interior noise levels within the development would satisfy applicable interior noise criteria.

NOISE STANDARDS AND CRITERIA

The *CEQR Technical Manual* provides attenuation requirements for buildings based on exterior noise levels (Table N-1). Recommended noise attenuation values for buildings are designed to maintain interior noise levels of 45 dBA or lower for residential uses and 50 dBA or lower for commercial uses and are determined based on exterior $L_{10(1)}$ noise levels.

Table N- 1: Required Attenuation Values to Achieve Acceptable Interior Noise Levels

	Marginally Unacceptable				Clearly Unacceptable
Noise Level with Proposed Action	$70 < L_{10} \leq 73$	$73 < L_{10} \leq 76$	$76 < L_{10} \leq 78$	$78 < L_{10} \leq 80$	$80 < L_{10}$
Attenuation[A]	(I) 28 dB(A)	(II) 31 dB(A)	(III) 33 dB(A)	(IV) 35 dB(A)	$36 + (L_{10} - 80)$[B] dB(A)

Source: *CEQR Technical Manual, Chapter 19: Noise;*
Notes:
(A) The above composite window-wall attenuation values are for residential dwellings. Retail uses would be 5 dB(A) less in each category. All the above categories require a closed window situation and hence an alternate means of ventilation.
(B) Required attenuation values increase by 1 dB(A) increments for L10 values greater than 80 dB(A).

METHODOLOGY

According to CEQR guidelines, an initial impact screening assessment considers whether a proposed project would (i) generate any mobile or stationary sources of noise; and/or (ii) be located in an area with existing high ambient noise levels. For a mobile source analysis to be triggered, a project must impact vehicular traffic noise, aircraft noise, and/or train noise. Because the Directly Affected Area is in an area with existing high ambient noise levels from the adjacent elevated rail line, an initial noise assessment of train noise would be warranted. Based on the *CEQR Technical Manual*, an analysis on train noise would be warranted if the Directly Affected Area would (i) be within 1,500 feet of existing rail activity and have a direct line of sight to that rail facility; or (ii) add rail activity to existing or new rail lines within 1,500 feet and have a direct line of site to a receptor. Because the Directly Affected Area is within 1,500 feet of the existing elevated rail line and the receptor will have a direct line of site to the elevated rail line, a train noise assessment is warranted.

The noise survey locations were selected by examining the location of Directly Affected Area and the location of the dominant source of train noise, particularly the elevated rail line west of the Directly Affected Area. Noise levels were determined by performing field measurements. The measured noise levels and train noise assessment were then used to determine minimum window/wall attenuation requirements to satisfy *CEQR* interior noise level criteria.

EXISTING NOISE LEVELS

Existing noise levels at the Proposed Development Site were measured from one (1) location (Table N-2 and Figure 20). Additional measurements were taken at four (4) locations around the Directly Affected Area (Table N-2 and Figure 25). At four (4) of the receptor sites, noise levels were measured for three 1-hour periods during a weekday peak period – AM (7:00AM – 9:00 AM), midday (12:00PM – 2:00PM), and PM (4:00PM – 6:00PM)[53]. A 24-hour measurement was taken adjacent to the MTA Rail Yard.

Measurements were performed using a 3M SoundPro DL-1-1/3 sound level meter and NTi XL2 sound level meters. During the measurements, the microphone was mounted on a tripod at a height

[53] Measurements were taken on November 16, 2016, September 12, 2017, and September 13, 2017.

of approximately 5 feet above the street level. Measurements at each location were made on the A-scale (dBA). The data was digitally recorded by the SLMs and displayed at the end of the measurement period in units of dB(A). Measured quantities included Leq, L_{MAX}, L_{10}, L_{50}, and L_{90}. A windscreen was used during all sound measurements except for calibration.

Table N-2: Receptor Location

Receptor	Location	Approximate Elevation (feet)	Approximate Distance from elevated 2/5 train (feet)
1	East 241st between White Plains Road and Furman Avenue	5	60
2	Northeast Corner of 240th and White Plains Road	5	20
3	White Plains Road near 241st	5	10
4	Elevated Center Platform of MTA Subway	5 (from platform) 35 (from street)	5
5	Furman Avenue Near 241st	6	250 (90 from Rail Yard tracks)

The results of the existing noise level measurements are summarized in Table N-3 and are included in Appendix F, "Noise Assessment Reports." The results for Receptor Location 5 represent the hour with the highest measured L_{10} noise level.

Table N-3: Existing Noise Levels at Receptor Location

Site	Measurement Location	Day	Time	L_{eq}	L_{MAX}	L_{10}	L_{50}	L_{90}
1	East 241st between White Plains Road and Furman Avenue	Weekday	AM	71.2	86.6	**74.3**	68.9	62.8
			MD	68.6	86.8	71.3	64.5	59.9
			PM	69.6	91.2	72.0	65.5	60.6
2	Northeast Corner of 240th and White Plains Road	Weekday	AM	76.6	93.3	78.5	63.6	55.9
			MD	76.5	101.6	79.4	62.4	53.9
			PM	76.8	97.6	**82.0**	65.0	57.9
3	White Plains Road near 241st	Weekday	AM	74.3	90.5	**77.1**	70.9	66.4
			MD	72.4	88.1	75.6	68.8	65.1
			PM	73.3	90.1	75.7	70.2	66.6
4	Elevated Center Platform of MTA Subway	Weekday	AM	75.7	89.0	79.3	69.0	62.8
			MD	75.6	90.4	79.6	71.9	62.5
			PM	81.1	69.8	84.7	80.1	63.6
5	Furman Avenue Near 241st	Weekday	6-7PM	64.2	85.3	**66.1**	59.2	54.8

At receptor location 1, vehicular traffic from White Plains Road and East 241st Street was the dominant noise source. The elevated No. 2/5 subway train also contributed to the measured noise levels. As defined in the *CEQR Technical Manual*, the existing noise level at the receptor location falls within the "marginally unacceptable" category.

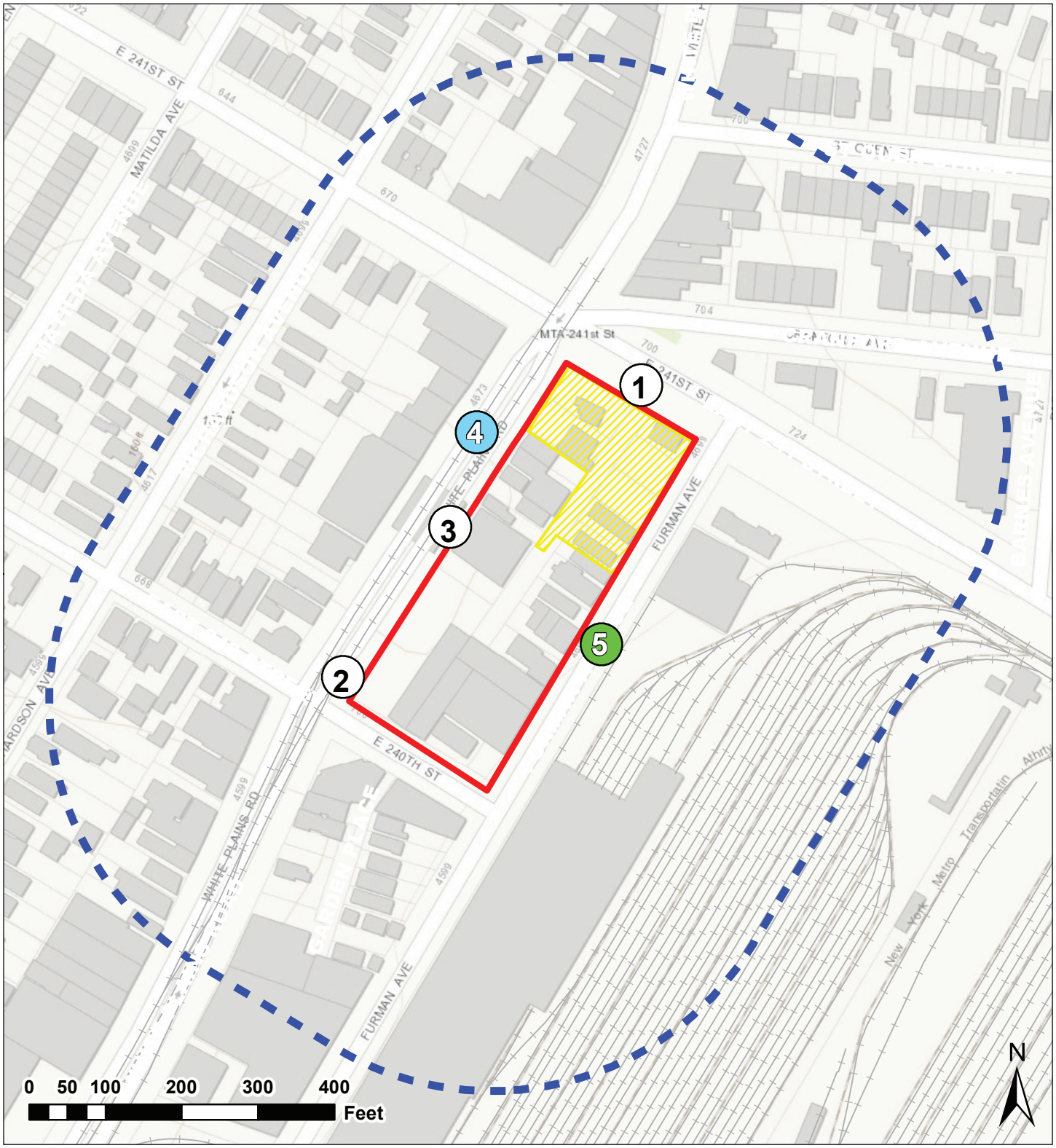
At receptor location 4, platform announcements for the elevated No. 2 subway train were the dominant noise source as well as idling subway trains. Vehicular traffic from White Plains Road also contributed to the measured noise levels. As defined in the *CEQR Technical Manual*, the existing noise level at the receptor location falls within the "clearly unacceptable" category; however, the exterior platforms at the elevated station have side walls and a roof that would provide shielding to the Directly Affected Area.

At receptor location 5, vehicular traffic from Furman Avenue was the dominant noise source. Train activity from the Rail Yard also contributed to the measured noise levels. As defined in the *CEQR Technical Manual*, the existing noise level at the receptor location falls within the "marginally acceptable" category.

FIGURE 25

NOISE MONITORING LOCATIONS

EAST 241ST STREET REZONING



Directly Affected Area

Proposed Development Site

Elevated Peak-Hour Monitoring Location

Peak-Hour Monitoring Location

24-Hour Monitoring Location

WAKEFIELD, BRONX, NY

LANGAN

ASSESSMENT

As shown in Table N-1, the *CEQR Technical Manual* has set noise attenuation values for building facades, based on exterior $L_{10}(1)$ noise levels. These recommended noise attenuation values are designed to maintain interior noise levels of 45 dB(A) or lower for residential uses and 50 dB(A) for commercial uses.

Table N-4 lists the required building attenuation values for the Projected Development Site 1, 2, 3, 4, and 5 and Potential Development Sites A, B, C, D, and E (Figure 8).

The attenuation of a composite structure is a function of the attenuation provided by each of its component parts and how much of the area is made up of each part. Normally, a building façade consists of a wall, glazing, and any vents or louvers associated with the building mechanical systems in various ratios of area. The development in the With-Action Condition design would include acoustically rated windows and an alternate means of ventilation (*i.e.*, air conditioning) that does not degrade the acoustical performance of the façade. The development in the With-Action Condition would include these elements, and would therefore be designed to provide a composite Outdoor-Indoor Transmission Class1 (OITC) rating greater than or equal to the attenuation requirements listed in Table N-4. By designing the Proposed Development to provide a composite OITC rating greater than or equal to the attenuation requirements listed in Table N-4 the development in the With-Action Condition would be expected to provide sufficient attenuation to achieve the interior noise level guideline of 45 dB(A) or lower for residential uses and 50 dB(A) or lower for commercial uses.

Table N-4: Building Attenuation Requirements

Location		Receptor #	Maximum L_{10}	Attenuation Requirement (dB(A))
Projected Development Site 1	North Façade	1	74.3	31
	East Façade	5	66.1	N/A[1]
	South Facade	3	77.1	33
	West Facade	3	84.7	41
Projected Development Sites 4 & 5 and Potential Development Sites D &E	West Facade	2	84.7	41
	All Other Facades	3	77.1	33
Projected Development Site 2 and Potential Development Sited A, B, & C	East Facade	3	77.1	33
Projected Development Site 3	South Facade	2	82.0	38
	West Façade	3	77.1	33

Notes:
[1] Maximum L10 is below 70 dB(A). The *CEQR Technical Manual* does not contain guidance for noise levels that are less than or equal to 70 dB(A).

To preclude the potential for significant adverse impacts related to noise, an (E) designation would be incorporated into the rezoning proposal, as follows:

Block 5087, Lots 1, 9, and 12 (Projected Development Site 1)

To ensure an acceptable interior noise environment, the building façade(s) or future development at Projected Development Site 1 must provide minimum composite building façade attenuation of 41 dBA along the west façade, 31 dBA along the north façade, and 33 dBA along the south façade, to ensure an interior L10 noise level not greater than 45 dBA for residential uses or not greater than 50 dBA for commercial uses. To maintain a closed-window condition in these areas, an alternate means of ventilation that brings outside air into the buildings without degrading the acoustical performance of the building façade(s) must also be provided.

Block 5087, Lots 40, 48, 53, 54, 55, and 58 (Projected Development Sites 4 & 5; Potential Development Sites D & E)

To ensure an acceptable interior noise environment, the building façade(s) or future development at Projected Development Sites 4 and 5, and Potential Development Site D and E must provide minimum composite building façade attenuation of 41 dBA along the west façade and 33 dBA along all other facades, to ensure an interior L10 noise level not greater than 45 dBA for residential uses or not greater than 50 dBA for commercial uses. To maintain a closed-window condition in these areas, an alternate means of ventilation that brings outside air into the buildings without degrading the acoustical performance of the building façade(s) must also be provided.

Block 5087, Lots 13, 14, 16, 18, 20 and 65 (Projected Development Site 2; Potential Development Sites A, B, and C)

To ensure an acceptable interior noise environment, the building façade(s) or future development at Projected Development Site 2 and Potential Development Sites A, B, and C must provide minimum composite building façade attenuation of 33 dBA along the east façade, to ensure an interior L10 noise level not greater than 45 dBA for residential uses or not greater than 50 dBA for commercial uses. To maintain a closed-window condition in these areas, an alternate means of ventilation that brings outside air into the buildings without degrading the acoustical performance of the building façade(s) must also be provided.

Block 5087, Lots 22, 24, 28, 33, and 128 (Projected Development Site 3

To ensure an acceptable interior noise environment, the building façade(s) or future development at Projected Development Site 3 must provide minimum composite building façade attenuation of 38 dBA along the south façade and 33 dBA along the west façade, to ensure an interior L10 noise level not greater than 45 dBA for residential uses or not greater than 50 dBA for commercial uses. To maintain a closed-window condition in these areas, an alternate means of ventilation that brings outside air into the buildings without degrading the acoustical performance of the building façade(s) must also be provided.

With this (E) designation **(E-484)** in place, no significant adverse noise impacts are expected, and no further analysis is warranted.

Mechanical Systems

The design of and specification for building mechanical systems, such as heating, ventilation, and air conditioning (HVAC), would be designed to meet all applicable noise regulations (Subchapter 5, §24-227 of the New York City Noise Control Code and the New York City Department of Buildings Mechanical Code) to ensure that the equipment does not result in any significant increase in ambient noise levels.

With these measures in place, no potentially significant adverse environmental noise impacts are anticipated; therefore, no further analysis is necessary.

ATTACHMENT O. NEIGHBORHOOD CHARACTER

INTRODUCTION

This section assesses the Proposed Actions' potential effects on neighborhood character. As defined in the *CEQR Technical Manual*, neighborhood character is an amalgam of various elements that give a neighborhood its distinct "personality." These elements may include a neighborhood's land use, socioeconomic conditions, open space, historic and cultural resources, urban design and visual resources, shadows, transportation, and noise conditions; however, not all of these elements contribute to neighborhood character in all cases. For a proposed project or action, a neighborhood character assessment pursuant to CEQR should first identify the defining features of the neighborhood and then evaluate whether the project or action has the potential to adversely affect one or more of these defining features. A project has the potential to affect a neighborhoods' character by a combination of moderate effects or significant adverse impacts to any of the defining features of the neighborhood. Therefore, to determine the effects of a proposed action on neighborhood character, the relevant features of neighborhood character are considered cumulatively. In addition, a significant impact identified in one of the technical areas that may contribute to a neighborhood's character is not automatically equivalent to a significant impact on neighborhood character, but rather serves as an indication that neighborhood character should be examined.

METHODOLOGY

According to the *CEQR Technical Manual*, an assessment of neighborhood character is generally needed when a proposed action has the potential to result in significant adverse impacts to any of the following technical areas: land use, socioeconomic conditions, open space, historic and cultural resources, urban design and visual resources, shadows, transportation, or noise. The *CEQR Technical Manual* states, even if a proposed action does not have the potential to result in a significant adverse impact in any specific technical area(s), that an assessment of neighborhood character may be required if the project would result in a combination of moderate effects to several elements that may cumulatively affect neighborhood character. A "moderate" effect is generally defined as an effect considered reasonably close to the significant adverse impact threshold for a particular technical analysis area.

A preliminary assessment of neighborhood character determines whether anticipated impacts in identified technical areas may adversely impact a defining feature of the neighborhood. The preliminary assessment first identifies the defining features that contribute to the neighborhood's character and then evaluates whether the proposed project or action has the potential to adversely impact those defining features, either through the potential for a significant adverse impact in a single relevant technical area or a combination of moderate effects in the relevant technical areas. The key elements that define neighborhood character, and their relationships to one another, form the basis of determining impact significance. In general, the more uniform and consistent the existing neighborhood character, the more sensitive it is to change. A neighborhood that has a varied context typically is able to tolerate greater change without experiencing significant impacts.

If there is no potential for the proposed project or action to affect the defining features of neighborhood character, a detailed assessment is not warranted.

Study Area

According to the *CEQR Technical Manual*, the study area for a preliminary assessment of neighborhood character is typically consistent with the study areas in the relevant technical areas assessed pursuant to CEQR that contribute to the defining features of the neighborhood. In the context of an area-wide rezoning, the study area boundaries of the preliminary assessment of neighborhood character are generally coterminous with those used in the analyses of land use and urban design (400-foot radius).

PRELIMINARY ASSESSMENT

Existing Conditions (Defining Features of the Neighborhood)

The Directly Affected Area comprises an entire city block (Block 5087) in the Wakefield neighborhood of the Bronx, Community District 12. The approximately 103,532-square-foot (sf) Directly Affected Area includes 20 tax lots (Block 5087, Lots 1, 9, 12, 13, 14, 16, 18, 20, 22, 24, 28, 33, 40, 48, 53, 54, 55, 58, 65 and 128) and is bounded by East 241st Street to the north; Furman Avenue to the east; East 240th Street to the south; and White Plains Road, with an elevated New York City Transit (NYCT) subway line, to the west. White Plains Road is a major thoroughfare that runs north-south and bisects the Study Area.

The 400-foot radius around the Directly Affected Area (the "Study Area") includes predominantly residential and commercial uses. Commercial uses are located primarily along White Plains Road and East 241st Street. One- and two-family and multifamily residences are located primarily on blocks to the west and northeast of the Directly Affected Area, along Richardson Avenue and East 240th Street, and along St. Ouen Street and Cranford Avenue, respectively. Residential uses within mixed-use buildings are located along White Plains Road. The Study Area also contains transportation and utility uses, including the MTA's 239th Street Rail Yard east of the Directly Affected Area, and additional light industrial uses on the block south of the Directly Affected Area.

There are no designated or eligible historic and cultural resources and open space resources within the Study Area. The built environment within the Study Area includes low to medium density, two- and three-story residential and mixed-use buildings, one-story commercial buildings, and a small number of one- and two-story community facility buildings. The Directly Affected Area is well served with pedestrian infrastructure, and includes wide sidewalks with minimal obstructions along White Plains Road and East 241st Street.

Assessment

The sections below discuss the potential for adverse impacts resulting from the Proposed Action in the following technical areas that are considered in the neighborhood character assessment pursuant to the *CEQR Technical Manual*: land use, zoning, and public policy; socioeconomic conditions; open space; historic and cultural resources; urban design and visual resources; shadows; transportation; and noise. The neighborhood character assessment uses information and

conclusions from the relevant technical analyses chapters to identify whether the Proposed Action would result in any significant adverse impacts or moderate adverse effects in these technical areas and whether any such changes would have the potential to affect the defining features of the neighborhood.

Land Use, Zoning, and Public Policy

The Proposed Action would not directly displace any land uses that would adversely affect surrounding land uses, nor would it generate land uses that would be incompatible with existing land uses or zoning districts in the Study Area. The Proposed Action would not result in land uses that conflict with public policies applicable to the Study Area. Therefore, the neighborhood's character would not be adversely affected due to potential effects of the Proposed Action on land use, zoning, and public policy, either individually or in combination with potential impacts in the other relevant technical areas discussed in this section.

The Proposed Action would encourage land uses that support the activation of the Wakefield neighborhood by allowing higher-density mixed uses along White Plains Road. The new residential and retail uses would complement existing mixed residential and commercial uses within the Study Area. The Proposed Action would be consistent with existing neighborhood trends of transforming former industrial areas to moderate-density residential and commercial areas as exemplified by the 134 block, Wakefield and Eastchester neighborhood rezoning located to the northwest of the Directly Affected Area *(CEQR No. 07DCP058X)*.

Based on this information, the Proposed Action would not result in any significant adverse impacts on neighborhood character in the area of land use, zoning, and public policy.

Socioeconomic Conditions

The Proposed Action is anticipated to introduce approximately 405 additional residential units, 255 of which would be allocated as affordable housing for low-, moderate-, and middle-income families through the Mandatory Inclusionary Housing (MIH) program. The Proposed Action is not anticipated to introduce a new trend that places upward pressure on rents. As discussed in Attachment D, "Socioeconomic Conditions," the development facilitated by the Proposed Action would result in less than a 5 percent increase in Study Area population. Therefore, it is not anticipated that the development in the With-Action Condition would introduce or substantially accelerate a trend of change in the residential real estate market that would result in the potential displacement of a vulnerable population.

The Proposed Action is anticipated to displace approximately 46 employees, which would not exceed the 100-employee threshold warranting an assessment, as described in the *CEQR Technical Manual.*

The Proposed Action would result in the development of approximately 73,344 gsf of commercial floor area within the Directly Affected Area, which is an increase of approximately 62,120 gsf compared to the No-Action condition. According to the *CEQR Technical Manual*, projects resulting in less than 200,000 square feet of retail on a single development site typically do not result in indirect socioeconomic impacts due to market saturation.

In conclusion, the Proposed Action is not anticipated to result in significant adverse impacts on direct or indirect residential displacement, direct or indirect business displacement, or affect specific industries in the Directly Affected Area or the Study Area. Therefore, the neighborhood's character would not be adversely affected due to potential effects of the Proposed Action on socioeconomic conditions either alone or in combination with potential impacts in other relevant technical areas discussed in this section.

Based on this information, the Proposed Action would not result in a significant adverse impact on neighborhood character as a result of changes to the area's socioeconomic conditions.

Open Space

The Proposed Action would not directly displace an existing open space resource, or result in a substantial decrease in the area's open space ratio (OSR). In addition, the proposed buildings are not anticipated to cast shadows on any publicly accessible open space within the Study Area. Therefore, the neighborhood's character would not be adversely affected due to potential effects of the Proposed Action on open space either alone or in combination with potential impacts in other relevant technical areas discussed in this section.

According to *CEQR Technical Manual* guidelines, the planning goal of 2.5 acres of open space per 1,000 residents represents an area well served by open space. The Proposed Action would result in an additional 1,000 residents. As discussed in Attachment F, "Open Space," there is approximately 39.27 acres of open space within one mile of the Directly Affected Area and the OSR in the With-Action Condition would be 1.46, a 3.81 percent decrease from the 1.51 OSR in the No-Action Condition. Because the resulting decrease would be less than five percent, the Proposed Action would not result in any significant adverse indirect open space impacts.

Based on this information, the Proposed Action would not result in a significant adverse impact on neighborhood character as a result of the effect of the Proposed Action on the area's open space resources.

Shadows

As discussed in Attachment G, "Shadows," there are no sunlight-sensitive resources within the Shadow Study Area (494.5-foot radius) based on a Tier 1 shadow screening assessment and project-generated incremental shadows would not result in significant adverse impacts within the neighborhood. Therefore, the neighborhood's character would not be adversely affected due to potential shadow impacts of the Proposed Action either alone or in combination with potential impacts in other relevant technical areas discussed in this section.

Based on this information, the Proposed Action would not result in a significant adverse impact on neighborhood character as a result of changes to the area's sunlight sensitive resources.

Historic and cultural resources

As part of the historic and cultural resources assessment, a request was sent to the Landmarks Protection Commission (LPC) for comment on the architectural and archaeological significance of the Directly Affected Area. LPC confirmed that there are no architectural or archaeological

resources within the Directly Affected Area and, as discussed in Attachment H, "Historic and Cultural Resources," the Proposed Action would not result in any significant adverse impacts to archaeological resources or eligible and/or designated architectural resources. Therefore, the neighborhood's character would not be adversely affected by potential effects of the Proposed Action on historic and cultural resources either alone or in combination with potential impacts in other relevant technical areas.

Based on this information, the Proposed Action would not result in a significant adverse impact on neighborhood character as a result of changes to the area's historic and cultural resources.

Urban Design and Visual Resources

The Proposed Action would result in development at a greater density and building heights than is currently permitted as-of-right within Directly Affected Area. The development facilitated by the Proposed Action would be taller and bulkier than the existing two- and three- story residential buildings that define the Study Area to the west and north of the Directly Affected Area, particularly the one- and two-family residences to the west fronting Richardson Avenue. However, the continuity of surrounding building height and bulk is interrupted by the elevated subway line adjacent to the Directly Affected Area to the west along White Plains Road. Furthermore, because of the proximity and size of the neighboring MTA Rail Yard to the east, continuity of building height or bulk east of the Directly Affected Area does not exist. Although the development facilitated by the Proposed Action would be taller and bulkier than the existing two- and three-story semi-detached residential homes in the northern part of the Study Area, the area to the north is at a higher elevation thus alleviating the perceived differences in building height. The southern part of the Study Area is characterized by one- and two-story commercial and industrial buildings with a small number of two-story residential buildings that have little consistency in terms of building height, distance from the street and/or shape. Therefore, the neighborhoods' character would not be adversely affected due to potential effects of the Proposed Action on urban design and visual resources either separately or in combination with potential impacts in other relevant technical areas discussed in this section.

In addition, the development facilitated by the Proposed Action would enhance the streetscape in the Study Area by providing new street-level retail uses that would serve the local population and activate the streetscape with active uses. The Proposed Development on Projected Development Site 1 would include commercial entrances along East 241st Street, a portion of White Plains Road, and Furman Avenue. Additional streetscape improvements would include the planting of street trees or other landscape features pursuant to planting area requirements in the quality housing program

Based on this information, the Proposed Action would not result in any potentially significant adverse impacts on neighborhood character in relation to urban design and visual resources.

Transportation

The Study Area is generally comprised of (i) narrow one-way streets providing one lane of moving traffic and (ii) two-way, multilane, higher capacity roadways characterized by moderate congestion during peak travel times. Therefore, the neighborhood's character would not be adversely affected

due to potential effects of the Proposed Action on transportation either individually or in combination with potential impacts in other relevant technical areas discussed in this section.

The Proposed Action could result in significant impacts at the signalized intersection of East 241st Street and White Plains Road during the weekday AM and Saturday midday peak hours. However, based on the analysis results, with the signal timing improvements in place, all intersection approaches would return to acceptable LOS, fully mitigating the impacts from the With-Action Condition, as per CEQR standards. In line with the traffic analysis, the Future With-Action Condition pedestrian analysis also incorporates signal timing improvements at the intersection of East 241st Street and White Plains for all four peak hours. Through signal timing improvements, all pedestrian elements in the study area will operate at acceptable service conditions during the four peak hours without any significant decrease in LOS over the No-Action Condition.

The Proposed Action would facilitate the development of approximately 416 dwelling units, generating a demand for approximately 208 parking spaces based on ACS vehicle ownership rate. Out of this total parking demand, approximately 101 spaces will be accommodated in the on-site accessory parking garage while the remaining 107 patrons are anticipated to seek off-site parking in the broader area. The Proposed Action, through the extension of the adjacent Transit Zone, would change the parking stipulations for the Directly Affected Area, ultimately reducing the amount of required parking. Therefore, the Proposed Action is not anticipated to result in a parking shortfall.

Noise

According to the *CEQR Technical Manual*, a mobile source noise assessment is required if a proposed project results in an increase in passenger car equivalent (PCE) values by 100 percent or more, which is the equivalent of 3 dBA or more. Based on the traffic analysis in Attachment L, "Transportation," the Proposed Action would not result in an increase in PCE values by 100 percent, therefore a mobile source noise analysis is not required. Therefore, the neighborhood's character would not be adversely affected due to potential effects of the Proposed Action on noise either separately or in combination with potential impacts in other relevant technical areas discussed in this section.

Further, the development facilitated by the Proposed Action would be required, through an (E)-designation, to provide acoustically rated windows and an alternate means of ventilation (*i.e* air conditioning) that would not degrade the acoustical performance of the façade. All development facilitated by the Proposed Action would be designed to provide a composite Outdoor-Indoor Transmission Class 1 (OITC) rating greater than or equal to the attenuation requirements listed in Table N-4 in Attachment N, "Noise." By designing the proposed development to provide a composite OITC rating greater than or equal to the attenuation requirements listed in Table N-4, the development facilitated by the Proposed action would be expected to provide sufficient attenuation to achieve the interior noise level guideline of 45 dB(A) or lower for residential uses and 50 dB(A) or lower for commercial uses.

Based on this information, the Proposed Action would not result in any potentially significant adverse impacts on neighborhood character in relation to noise.

CONCLUSION

As stated in the *CEQR Technical Manual*, if a proposed project would have the potential to affect the defining features of the neighborhood, either through the potential for a significant adverse impact or a combination of moderate effects in relevant technical areas, then a detailed assessment is required to determine whether the proposed project may have a significant adverse neighborhood character impact. Of the relevant technical areas specified in the *CEQR Technical Manual*, the Proposed Action would not cause significant adverse impacts regarding land use, zoning, and public policy, socioeconomic conditions, open space, shadows, historic and cultural resources, urban design and visual resources, transportation, or noise. In addition, the technical areas that contribute to a neighborhood's character would not, either individually or in combination, result in moderate adverse impact on neighborhood character.

Therefore, based on the results of the preliminary assessment, there is no potential for the Proposed Action to result in significant adverse impacts to neighborhood character, and further analysis is not warranted.

ATTACHMENT P. CONSTRUCTION

INTRODUCTION

According to the *CEQR Technical Manual,* construction activities, although temporary, may sometimes result in significant impacts. Construction duration, which is a critical measure to determine a project's potential for adverse impacts during construction, is categorized as short-term (less than 24 months) and long-term (24 months or more). For construction activities not related to in-ground disturbance, short-term construction generally does not warrant a detailed construction analysis. However, consideration of several factors, including the location and setting of the project in relation to other uses and the intensity of construction activities, may indicate that a project's construction activities, even if short-term, warrant analysis in additional areas such as traffic, hazardous materials, historic and cultural resources, noise, and air quality.

As discussed in Attachment B, "CEQR Analysis Framework," the Proposed Action would facilitate development on five Projected Development Sites within the Directly Affected Area (the "With-Action Condition"). The approximately 28,999-square-foot (sf) Proposed Development Site (Projected Development Site 1) is the largest site within the Directly Affected Area and would be developed with a 9-story (90-foot), approximately 207,925-gross-square-foot (gsf) commercial/residential building (the "Proposed Development Project"). Projected Development Sites 2 through 5 range from approximately 6,622 sf to 18,335 sf in lot area, and would be individually developed with commercial/residential buildings ranging from approximately 40,133 gsf to 123,534 gsf. Overall, the Proposed Action would facilitate the construction of approximately 526,626 gsf of commercial and residential uses within the Directly Affected Area.

All five Projected Development Sites are expected to be developed by the end of 2026 (the "Build Year"). Because the Proposed Action would facilitate construction of multiple buildings within the Directly Affected Area, with total construction duration that would last for longer than 24 months, a preliminary assessment of the construction activities related to the Proposed Action is included in this section.

METHODOLOGY

The cumulative construction period for development to be completed on all five Projected Development Sites reasonably cannot be assumed to be less than 24 months; therefore, this analysis assumes that the final Projected Development Site would be developed by 2026. It is anticipated that construction activities on the largest Projected Development Site (the Proposed Development Site) would last approximately 22 months. Therefore, it is anticipated that construction activities on each of the remaining four Projected Development Sites would not exceed 22 months per site. Although individual construction activities on each of the Projected Development Sites is anticipated to be completed in less than 24 months, and is therefore considered short-term, a preliminary construction assessment is provided to assess the potential effects on a Projected Development Site that may be occupied during the construction of another Projected Development Site.

REGULATORY AGENCIES AND OVERSIGHT

Regardless of the length of the construction period, New York City has defined a number of regulations that must be adhered to. In addition to the regulatory requirements, applicants must coordinate with New York City, New York State, and occasionally federal agencies to ensure that construction is facilitated appropriately.

New York City Air Pollution Control Code

All projects, whether or not subject to the requirements of CEQR, are required to comply with the New York City Air Pollution Control Code, which regulates fugitive dust under Section 1402.2-9.11, "Preventing Particulate Matter from Becoming Air-Borne; Spraying of Asbestos Prohibited; Spraying of Insulating Material and Demolition Regulated" (Title 24 of the Administrative Code of the City of New York, Chapter 1, Subchapter 6, Section 24-146).

New York City Asbestos Control Program

The regulations of the New York City Asbestos Control Program include specific procedures that must be followed for the control of asbestos during construction. In instances where demolition of an existing building could result in release of asbestos, the qualitative analysis should document a commitment to the adherence of these measures and requirements during construction.

Local Law 24 Of 2005

Local Law 24 of 2005 requires the issuance of a Community Reassessment, Impact and Amelioration (CRIA) statement, or Environmental Assessment Statement (EAS)/Environmental Impact Statement (EIS) in lieu of CRIA, if a publicly mapped street is closed for more than 180 consecutive calendar days to vehicular traffic. The CRIA Statement or equivalent EAS/EIS must be delivered to both the community board and the city council member in whose district the street is located on or before the 210th day of the street closure. In addition, at least one public forum must be held prior to the issuance of the CRIA, EAS, or EIS if the project is one for which the New York City Department of Transportation (DOT) has issued a permit.

Required Permits from DOT's Office of Construction Mitigation and Coordination

Before receiving construction permits from the New York City Department of Transportation (NYCDOT) (such as street opening, sidewalk construction, construction activity, or canopy permits), traffic, bicycle detour, and pedestrian access plans must be approved by the Office of Construction Mitigation and Coordination (OCMC). Additionally, pedestrian access plans should identify the extent to which any sidewalks and/or crosswalks would be closed or narrowed to allow for construction-related activity and describe how pedestrian access to adjacent land uses and uses through the area/intersections would be maintained.

New York City Noise Control Code

The New York City Noise Control Code, as amended by Local Law 113 of 2005, defines "unreasonable and prohibited noise standards and decibel levels" for the City of New York. The New York City Noise Control Code, Section 24-219, contains rules that prescribe "noise mitigation

strategies, methods, procedures, and technology that shall be used at construction sites" when certain construction devices or activities occur. Additionally, the New York City Noise Control Code requires construction activities to occur between 7 AM to 6 PM Monday through Friday. Construction activities occurring outside the permitted days/hours would require prior authorization.

New York City Procedure for the Avoidance of Damage to Historic Structures

Regulations for the protection of historic structures are found in "Technical Policy and Procedure Notice #10/88, Procedures for the Avoidance of Damage to Historic Structures Resulting from Adjacent Construction When Subject to Controlled Inspection by Section 27-724 and for Any Existing Structure Designated by the Commissioner," issued by the New York City Department of Buildings (NYCDOB).

CONSTRUCTION SEQUENCING

The Proposed Development Site, which is the largest Projected Development Site, would be developed with a 9-story (90-foot), approximately 207,925-gsf commercial/residential building to be constructed in approximately 22 months. Using this 22-month construction period of the largest Projected Development Site as a baseline, it is assumed that the individual construction duration on each of the remaining four Projected Development Sites would not exceed 22 months per site. Based on the projected construction schedule (Table P-1) for all the Projected Development Sites, it is anticipated that no two Projected Development Sites would be developed concurrently.

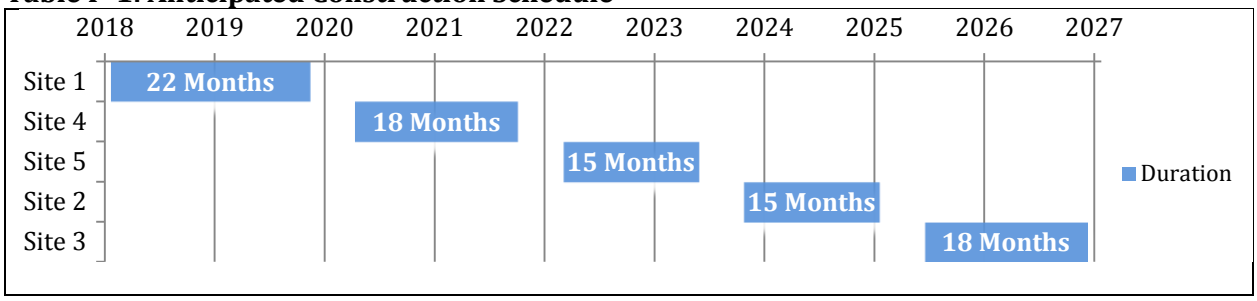
Projected Development Site 3 would be developed with an approximately 123,534-gsf commercial/residential building and Projected Development Site 4 would be developed with an approximately 103,955-gsf commercial/residential building. Construction activities are anticipated to last between approximately 15 and 18 months for each of these two Projected Development Sites. Projected Development Site 2 would be developed with an approximately 51,079-gsf commercial/residential building and Projected Development Site 5 would be developed with an approximately 40,133-gsf commercial/residential building. Construction activities are anticipated to last between 12 and 15 months for each of these two Projected Development Sites. As shown in Table P-1, it is anticipated that none of the Projected Development Sites would be developed concurrently, and there would be periods in which no construction activities are likely to occur.

At this time, only one known development on Projected Development Site 1 is anticipated to occur in the Directly Affected Area as a result of the Proposed Action. There are no known development plans for the remaining four Projected Development Sites. As discussed in Attachment B, "CEQR Analysis Framework," the Reasonable Worst Case Development Scenario (RWCDS) assumes that Projected Development Sites 2 through 5 would be developed at the maximum floor area permitted by the proposed zoning district. However, a definitive construction sequence cannot be assumed based exclusively on this information, as fluctuations in market conditions and demand for residential and mixed-use developments are likely to influence development and, therefore, influence the construction duration for each Projected Development Site. For the purposes of this assessment, the anticipated construction schedule would begin with construction of the Proposed Development on Projected Development Site 1, which would begin immediately upon approval of the Proposed Action. The remaining Projected Development Sites are anticipated to be developed

successively following the completion of the Proposed Development, with brief periods in which no construction activity is likely to occur.

The anticipated construction schedule shown below in Table P-1 was developed based on lot ownership (with the assumption that Projected Development Sites with one primary owner are likely to be developed sooner than those with more than one primary owner) and anticipated development size.

Table P-1: Anticipated Construction Schedule



PRELIMINARY ASSESSMENT

According to *CEQR Technical Manual* guidelines, a preliminary construction assessment evaluates the impact of construction activities facilitated by the Proposed Action with regard to transportation, air quality, noise, historic and cultural resources, and hazardous materials.

Transportation

Construction activities on all the Projected Development Sites would generate trips by workers traveling to and from construction sites as well as trips by the delivery of construction related materials and equipment. The New York City Noise Control Code requires construction activities to occur between 7 AM to 6 PM Monday through Friday; therefore, worker trips would be concentrated in off-peak hours and would not generate 50 or more vehicle trips (presented in Passenger Car Equivalents (PCEs)) during peak travel periods. In addition, any closures to pedestrian sidewalk or partial lane closures would occur for less than two years and would be reviewed by NYCDOT. Because construction of the Projected Development Sites are assumed not to overlap and trips generated by construction activities would not generate 50 or more PCEs during peak traffic hours, the construction activities facilitated by the Proposed Action would not result in significant adverse impacts to transportation activities in the area.

Air Quality and Noise

According to the *CEQR Technical Manual*, an assessment of potential air quality and noise impacts as a result of construction related activities is warranted if the proposed action would result in construction activities greater than 24 months, if the project is located near a sensitive receptor(s), or if the proposed action would facilitate construction of multiple buildings where there is potential for on-site receptors to be affected by construction activities on the site. If a project meets one or more of the criteria above or if one of the above criteria is unknown at the time of review, a preliminary air quality or noise assessment is not automatically required. Instead, various factors should be considered, such as the types of construction equipment (e.g., gas, diesel, electric), the

nature and extent of any commitment to use the Best Available Technology (BAT) for construction equipment, the physical relationship of the project site to nearby sensitive receptors, the type of construction activity, and the duration of any heavy construction activity.

Although it is assumed that individual construction durations on each of the Projected Development Site would not exceed 24 months, the Proposed Action would facilitate construction of multiple buildings within the Directly Affected Area, and there is potential for an on-site receptor (in the form of the developed Projected Development Sites) to be affected by construction on the remaining Projected Development Sites. Therefore, the impacts of construction activities on air quality and noise are discussed qualitatively.

Air Quality

Emissions from construction equipment and construction related vehicular traffic, as well as dust generating construction activities have the potential to affect air quality. Typically, much of the heavy equipment used in construction has diesel-powered engines that generate carbon monoxide ($C0_2$), nitrogen oxide (NO_2), and particulate matter. Emission producing heavy equipment is primarily utilized during the early stages of construction during demolition, excavation, groundwork, and foundation activities. The emissions produced as a result of the use of heavy diesel equipment, coupled with the fugitive dust from particularly intensive earth moving activities, elevate the emissions levels during the early stages of construction. The subsequent stages of construction often necessitate less use of heavy diesel equipment and more use of electric (non-emitting) tools. The later stages of construction often do not involve substantial in-ground disturbance, resulting in diminished amounts of fugitive dust as a result of construction activities.

The primary air pollutants of concern for construction related activities include CO_2, NO_2, particulate matter with an aerodynamic diameter of less than 10 micrometers (PM_{10}), and particulate matter with an aerodynamic diameter of less than 2.5 micrometers ($PM_{2.5}$). An impact would occur if pollutant concentrations would exceed the Nations Ambient Air Quality Standards (NAAQS) or the City *de minimis* values as a result of the Proposed Action.

For CO_2, a screening analysis was performed to assess the potential for construction activities to generate excess amounts of CO_2. Construction on the Projected Development Sites is anticipated to take less than 24 months per Projected Development Site and would be complete by the end of 2026. Based on the vehicle trips anticipated to be generated by development on the Projected Development Sites, construction related activities as a result of the Proposed Action are not anticipated to result in an excessive amount of CO_2 emission.

For NO_2, a screening analysis was performed to assess the potential for construction activities to generate excessive amounts of NO, which could have the potential to be converted to NO_2 once oxidized. According to the *CEQR Technical Manual* an assessment of NO_2 is necessary for a proposed project that would generate large combustion sources. Although the Proposed Action would facilitate construction of the Projected Development Sites, the number of vehicle trips (presented as PCEs) is not anticipated to be excessive, below the CEQR threshold of 50 PCEs during peak travel periods. Therefore, based on the number of vehicle trips anticipated to be generated by construction on the Projected Development Sites, excessive amounts of NO or NO_2 emissions are not anticipated.

For $PM_{2.5}$, a screening analysis was performed to assess the potential for construction activities to generate excessive amounts of $PM_{2.5}$. According to the *CEQR Technical Manual,* an assessment of $PM_{2.5}$ is necessary if a proposed project would generate a number of heavy duty diesel vehicles (HDDVs). The number of HDDVs that would need to be generated to trigger an assessment of $PM_{2.5,}$ however, varies depending on road size and existing vehicular traffic. A more detailed analysis would be required if a Proposed Action would meet or exceed the thresholds below:

- 13 HDDV for paved roads with average daily traffic fewer than 5,000 vehicles;
- 19 HDDV for collector-type roads;
- 23 HDDV for principal and minor arterial roads; and
- 23 HDDV for expressways and limited-access roads

While truck trips are generated throughout construction, trucking is particularly intensive during the excavation and foundation phases of construction. Table P-2 shows the estimated truck trips according to development size during excavation & foundation, based on the estimates provided in the *Crotona Park East/West Farms Rezoning EIS.*

Table P-2: Anticipated Maximum Construction Trucks

Development Size (gsf)	Hauling Trucks	Delivery Trucks	Total Trucks	Total Trips	Average Trips per hour (11 Hours)	Duration of Phase (weeks)
25,000 – 75,000	8	15	23	46	4.18	6 to 8
75,000 – 125,000	8	15	23	46	4.18	6 to 8
125,000 – 175,000	8	18	26	52	4.73	6 to 8
175,000 – 225,000	11	20	31	62	5.64	6 to 8
225,000 – 275,000	11	20	31	62	5.64	6 to 8

Source: *Crotona Park East/ West Farms Rezoning and Related Actions (https://a002-ceqraccess.nyc.gov/ceqr/ProjectInformation/ProjectDetail/6685-10DCP017X#b) (Accessed, July 24, 2017).*

As shown in Table P-2, at least two Projected Development Sites could potentially be trucking for the excavation and foundation phases of construction simultaneously without generating sufficient HDDVs to warrant assessment of $PM_{2.5}$. The anticipated Build Year for all five Projected Development Sites is 2026. Based on the anticipated construction schedule (Table P-1), none of the Projected Development Sites are anticipated to undergo construction simultaneously. Therefore, based on the anticipated construction schedule and size of the projected developments, construction related activities as a result of the Proposed Action are not anticipated to result in an excessive amount of $PM_{2.5}$ emission. To address potential for on-site fugitive dust and exhaust emissions, on-site vehicle speeds would be limited to approximately five miles per hour (mph), and surfaces would be watered periodically.

Existing uses within the Directly Affected Area may continue to operate during construction; however, due to the construction period of all Projected and Potential Development Sites, demolition, excavation, groundwork, and foundation activities are not anticipated to result in acute or protracted exposure to emissions. Additionally, as displayed in Table P-1, the sequencing of construction within the Directly Affected Area indicates the development of no two Projected or

Potential Development Sites would occur at the same time. The anticipated construction sequencing would ensure the emissions resulting from intensive earth moving activities are not combined and amplified, further reducing the potential to impact surrounding uses as a result of emissions from construction.

Based on this information, due to the anticipated construction period schedule and size of the Projected Development Sites, construction related activities as a result of the Proposed Actions are not anticipated to result in adverse impacts to air quality for completed Projected Development Sites.

Noise

Construction noise source is associated with a variety of mobile and stationary sources, each having unique noise characteristics and operating for different time periods. Noise levels during construction would vary widely, depending on the phase of construction and the proximity of construction to noise-sensitive receptor locations. The only noise descriptor that can be used reliably with these noise sources is the time-equivalent level (L_{eq}). According to the *CEQR Technical Manual,* hourly L_{eq} values should be used because construction operations vary with the time of day.

The *CEQR Technical Manual* states that noise impacts due to construction would occur "only at sensitive receptors what would be subjected to high construction noise levels for an extensive period of time." Accordingly, a construction noise impact would occur if sensitive receptors would experience the following conditions:

- Cumulative construction noise levels exceeding ambient noise levels by three to five dBA or more for a period of 24 months or more;
- Cumulative construction noise levels exceeding 85 dBA for the duration of a construction phase; or
- Cumulative construction noise levels exceeding ambient noise levels by 15 dBA or more for the duration of a construction phase.

In addition, further analysis should be performed if a proposed project would cause construction equipment to operate within 1,500 feet of a sensitive receptor for a period of time exceeding 24 months.

Based on the anticipated construction schedule, none of the Projected Development Sites are anticipated to undergo a construction duration exceeding 24 months. In addition, the construction phases that generate the most noise (*i.e.,* excavation and foundation) would constitute a portion of the anticipated construction period. Therefore, construction related activities as a result of the Proposed Action are not anticipated to result in significant adverse noise impacts to surrounding potentially sensitive receptors.

Historic and Cultural Resources

As described in Attachment H, "Historic and Cultural Resources," the Directly Affected Area is not located within an area of historic or archeological significance. Therefore, the Proposed Action is not anticipated to result in significant adverse construction related impacts on historic and cultural resources.

Hazardous Materials

The Proposed Action would result in the development of commercial and residential uses on properties formerly used for manufacturing and light industrial uses. As described in Attachment J, "Hazardous Materials," Phase I and Phase II environmental investigations were performed on Projected Development Site 1 (the Proposed Development Site). Because there are no known development plans for the remaining Projected Development Sites at this time, these sites have not been investigated with regard to hazardous materials. However, an (E) designation for hazardous materials would be placed on each Projected Development Site to ensure that the necessary pre- and post-development procedures to mitigate or eliminate the potential for significant adverse impacts related to hazardous materials are performed.

In addition, demolition of building interiors, portions of buildings or entire buildings are regulated by NYCDOB which, if necessary, requires abatement of asbestos prior to any construction activities that could result in potential exposure.

Therefore, through adherence to the regulations imposed by the applicable New York City and New York State governing agencies, and implementation of (E) designations, the Proposed Action is not anticipated to result in significant adverse impacts from hazardous materials as a result of construction activities.

CONCLUSION

The Proposed Action would facilitate development on five Projected Development Sites within the Directly Affected Area. Based on the known development schedule of the Proposed Development on Projected Development Site 1 (the Proposed Development Site) and the anticipated development size and lot ownership of the remaining four Projected Development Sites, an anticipated construction schedule was created for the development of all five Projected Development Sites. The anticipated construction schedule assumes that individual construction activities on each Projected Development Site would not exceed 24 months and that no two Projected Development Sites would be developed concurrently. Because construction periods of the Projected Development Sites would not overlap, and because individual construction durations would be less than 24 months, the Proposed Action is not anticipated to result in significant adverse impacts related to construction activities.

PART III: APPENDICES

PART III: APPENDICES

APPENDIX A: DIRECTLY AFFECTED AREA PHOTOGRAPHS

FIGURE A-1

PHOTOGRAPH LOCATION MAP

EAST 241ST STREET REZONING



Directly Affected Area

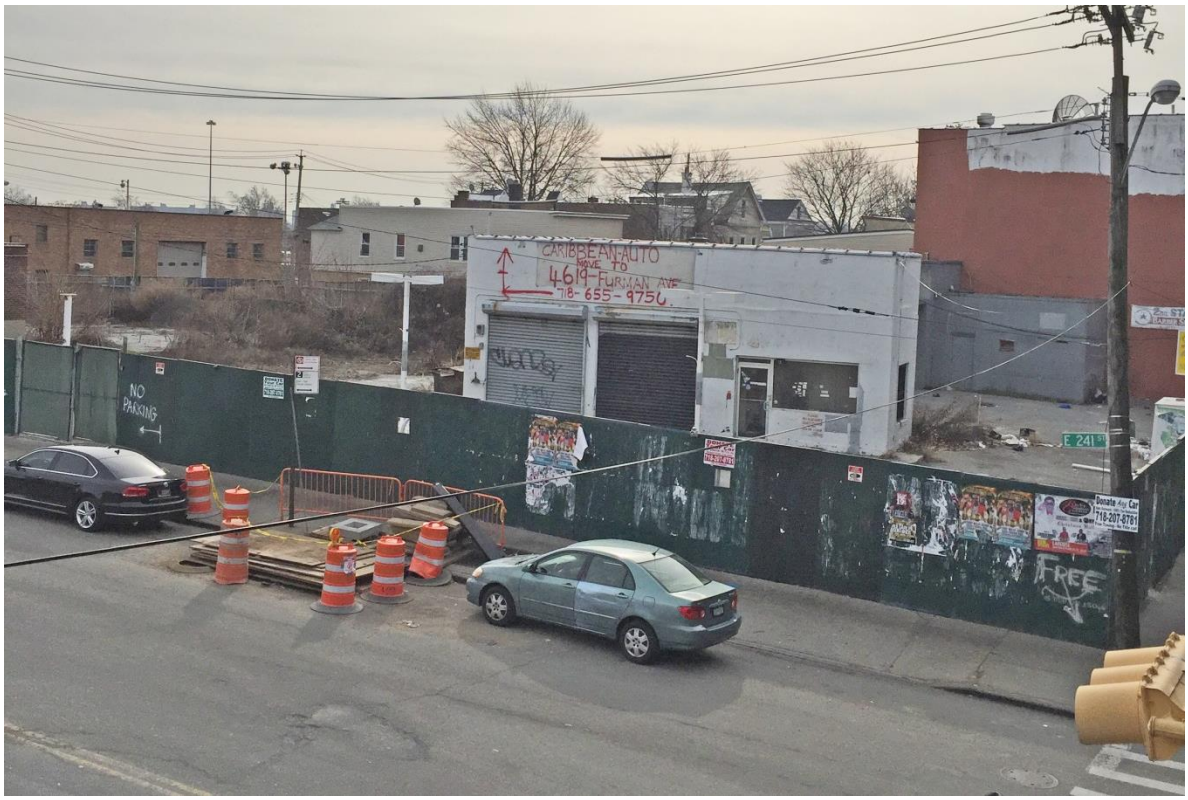
Proposed Development Site

1 Photograph Location Point

WAKEFIELD, BRONX, NY

LANGAN

Directly Affected Area Photographs
(Photographs taken on 15 January 2016 and January 16 2018)



Photograph 1: Southeast view of Project Site from No. 2 train Wakefield 241st Street stop



Photograph 2: Northeast view of Project Site from White Plains Road



Photograph 3: Southwest of Project Site from Furman Avenue and E. 241st Street



Photograph 4: East view of Project Site and No. 2 train Wakefield 241st Street stop from Furman Avenue



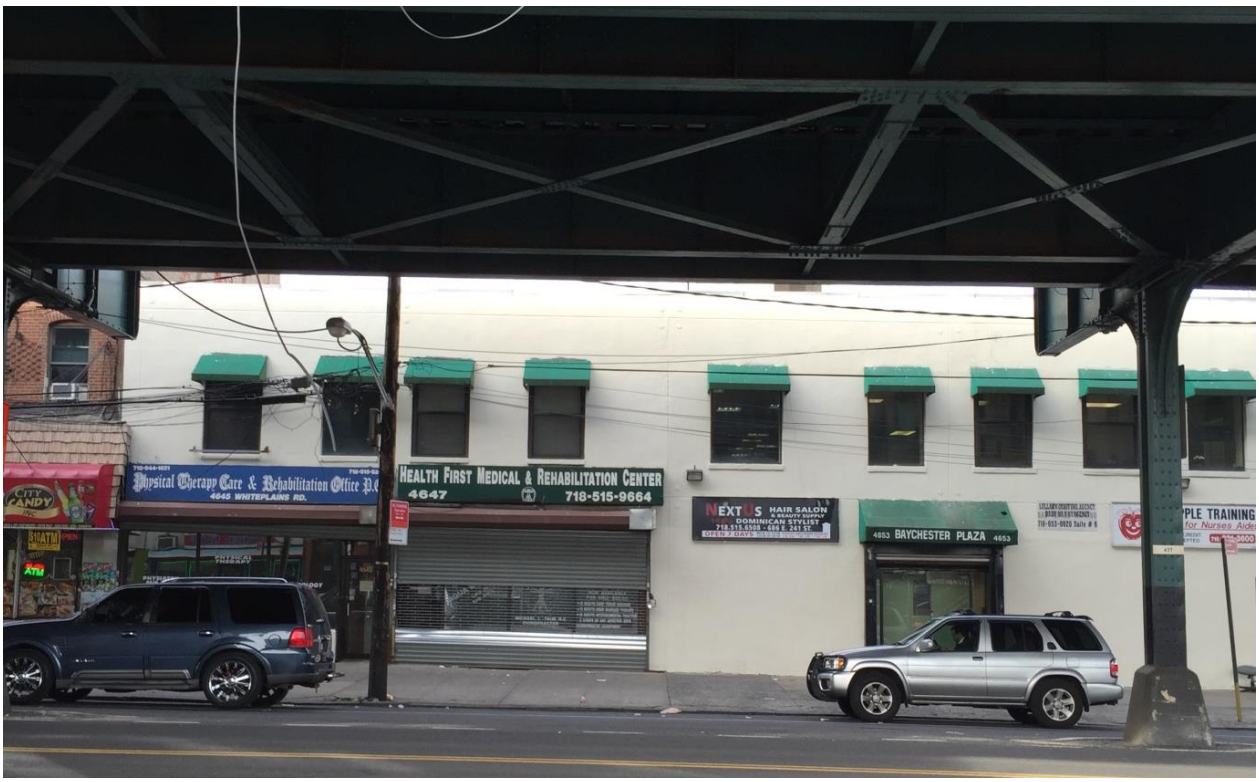
Photograph 5: North view of No. 2 train Wakefield 241st Street entrance from Project Site



Photograph 6: South view of NYCTA train yard from Project Site



Photograph 7: Northwest view of No. 2 train Wakefield 241st Street stop from Project Site



Photograph 8: West view of commercial uses along White Plains Road from Project Site



Photograph 9: South view of commercial uses along White Plains Road from Project Site



Photograph 10: Northeast view of E. 241st Street and Cranford Avenue from Project Site



Photograph 11: East view of restaurant across Furman Avenue from Project Site



Photograph 12: West view along E. 241st Street from Richardson Avenue



Photograph 13: Northwest view of residences along Richardson Avenue from E. 241st Street



Photograph 14: North view of Saint Paul's Slovak Evangelical Lutheran Church on Cranford Avenue



Photograph 15: East view of residences along Cranford Avenue from Barnes Street



Photograph 16: East view of along Cranford Avenue from White Plains Road



Photograph 17: South view along Furman Avenue Street and NYCTA facility (left) from E. 240th Street



Photograph 18: North view along White Plains Street from St. Ouen Street at commercial uses



Photograph 19: West view along E. 241th Street from northern boundary from NYCTA rail yard



Photograph 20: Southwest view of Project Site from intersection of Furman Avenue and East 241st Street



Photograph 21: South view of Project Site from intersection of Furman Avenue and East 241st Street



Photograph 22: West view of Project Site from intersection of Furman Avenue and East 241st Street



Photograph 23: Northwest view of Project Site from intersection of Furman Avenue



Photograph 24: South view of Project Site from intersection of Cranford Avenue and East 241st Street

APPENDIX B: AGENCY CORRESPONDENCE

NYC Landmarks Preservation Commission

1 Centre Street
9th Floor North
New York, NY 10007

Voice (212)-669-7700
Fax (212)-669-7960
http://nyc.gov/landmarks

ENVIRONMENTAL REVIEW

Project number: DEPARTMENT OF CITY PLANNING / 77DCP316X
Project: E. 241 ST. REZONING
Date received: 7/27/2017

Properties with no Architectural or Archaeological significance:

1) ADDRESS: 4627 FURMAN AVENUE, BBL: 2050870013
2) ADDRESS: 4625 FURMAN AVENUE, BBL: 2050870014
3) ADDRESS: 4615 FURMAN AVENUE, BBL: 2050870020
4) ADDRESS: 4632 WHITE PLAINS ROAD, BBL: 2050870053
5) ADDRESS: 4634 WHITE PLAINS ROAD, BBL: 2050870054
6) ADDRESS: 4636 WHITE PLAINS ROAD, BBL: 2050870055
7) ADDRESS: 4640 WHITE PLAINS ROAD, BBL: 2050870058
8) ADDRESS: 704 EAST 241 STREET, BBL: 2050870065
9) ADDRESS: 714 EAST 241 STREET, BBL: 2050870001
10) ADDRESS: 4637 FURMAN AVENUE, BBL: 2050870009
11) ADDRESS: 4629 FURMAN AVENUE, BBL: 2050870012
12) ADDRESS: 4621 FURMAN AVENUE, BBL: 2050870016
13) ADDRESS: 4619 FURMAN AVENUE, BBL: 2050870018
14) ADDRESS: 4611 FURMAN AVENUE, BBL: 2050870022
15) ADDRESS: 4609 FURMAN AVENUE, BBL: 2050870024
16) ADDRESS: 4601 FURMAN AVENUE, BBL: 2050870028
17) ADDRESS: 711 EAST 240 STREET, BBL: 2050870033
18) ADDRESS: 4601 FURMAN AVENUE, BBL: 2050870128
19) ADDRESS: 4600 WHITE PLAINS ROAD, BBL: 2050870040
20) ADDRESS: 4626 WHITE PLAINS ROAD, BBL: 2050870048

Gina Santucci 8/2/2017

SIGNATURE DATE
Gina Santucci, Environmental Review Coordinator

File Name: 32643_FSO_ALS_08022017.doc

LANGAN

Technical Excellence
Practical Experience
Client Responsiveness

7 January 2016

Gina Santucci
Environmental Review Coordinator
NYC Landmarks Preservation Commission
One Centre Street
9th Floor, North
New York, New York 10007

Re: Enclave 241st Street Project
Bronx Block 5087 Lots 1 & 9
Bronx, New York
Langan Project No.: 140115301

Dear Ms. Santucci:

On behalf of Enclave on 241st LLC, Langan Engineering, Environmental, Surveying and Landscape Architecture, DPC (Langan) hereby requests information as to the likelihood that the proposed development at 700-714 East 241st Street, 4641-4643 Furman Avenue, and 4644 White Plains Road (Block 5087 Lots 1 & 9) in the Wakefield neighborhood of the Bronx would result in any adverse impacts to historic and archaeological resources. This request is part of a City Environmental Quality Review (CEQR) Environmental Assessment Statement (EAS).

The approximately 26,770-square foot (sf) Project Site is bound by East 241st Street to the north, Furman to the east, buildings with frontages on East 240th Street to the south, and White Plains Road to the west. The Proposed Project involves the construction an approximately 179,326-sf, 8-story, primarily residential, mixed-use building. Based on New York State's Historic Preservation Office (SHPO) Cultural Resource Information System (CRIS) database, there are no historic resources wihtin 400-feet of the project site and the site is not within an archaeological sensitive area.

We look forward to your review of the project. If you should have any questions regarding this matter, please do not hesitate to contact me at (212) 479-5566 or via email at TDevaney@langan.com.

Thank you for your assistance.

Sincerely,

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.

Thomas E. Devaney, AICP
Senior Environmental Planner

TED/rk

21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com
New Jersey • New York • Virginia • California • Pennsylvania • Connecticut • Florida • Abu Dhabi • Athens • Doha • Dubai • Istanbul

Enclosure(s):
Regional Location Map, Site Location Map, Site Plan, Elevation Rendering, and Site Photographs

cc: Robert Kulikowski - Langan,
Jonathan Seplowitz - Enclave on 241st LLC

LANGAN

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Division of Fish, Wildlife & Marine Resources
New York Natural Heritage Program
625 Broadway, 5th Floor, Albany, New York 12233-4757
Phone: (518) 402-8935 • **Fax:** (518) 402-8925
Website: www.dec.ny.gov

January 29, 2016

Thomas E. Devaney, AICP
Langan
21 Penn Plaza, 360 West 31st Street, 8th Floor
New York, NY 10001

Re: Enclave 241st Street Project - proposed mixed-use development at Block 5087 Lots 1 & 9 in the Wakefield neighborhood (Langan Project No.: 140115301)
Town/City: City Of New York. County: Bronx.

Dear Thomas E. Devaney:

In response to your recent request, we have reviewed the New York Natural Heritage Program database with respect to the above project.

We have no records of rare or state-listed animals or plants, or significant natural communities at your site or in its immediate vicinity.

The absence of data does not necessarily mean that rare or state-listed species, significant natural communities, or other significant habitats do not exist on or adjacent to the proposed site. Rather, our files currently do not contain information that indicates their presence. For most sites, comprehensive field surveys have not been conducted. We cannot provide a definitive statement on the presence or absence of all rare or state-listed species or significant natural communities. Depending on the nature of the project and the conditions at the project site, further information from on-site surveys or other resources may be required to fully assess impacts on biological resources.

This response applies only to known occurrences of rare or state-listed animals and plants, significant natural communities, and other significant habitats maintained in the Natural Heritage database. Your project may require additional review or permits; for information regarding other permits that may be required under state law for regulated areas or activities (e.g., regulated wetlands), please contact the appropriate NYS DEC Regional Office, Division of Environmental Permits, as listed at www.dec.ny.gov/about/39381.html.

Sincerely,

Andrea Chaloux

Andrea Chaloux
Environmental Review Specialist
New York Natural Heritage Program

LANGAN

Technical Excellence
Practical Experience
Client Responsiveness

8 January 2016

NYSDEC-DFWMR
NY Natural Heritage Program – Information Services
625 Broadway
Albany, NY 12233-5747

Re: Enclave 241st Street Project
Bronx Block 5087 Lots 1 & 9
Bronx, New York
Langan Project No.: 140115301

To Whom it May Concern:

On behalf of Enclave on 241st LLC, Langan Engineering, Environmental, Surveying and Landscape Architecture, DPC (Langan) is requesting information on the potential presence of records for rare species or significant natural communities for a proposed primarily residential, mixed-use development at 700-714 East 241st Street, 4637-4643 Furman Avenue, and 4644 White Plains Road (Block 5087 Lots 1 & 9), in the Wakefield neighborhood of the Bronx (Figure 1). This request is part of a City Environmental Quality Review (CEQR) Environmental Assessment Statement (EAS).

The approximately 26,770-square foot (sf) Project Site is bound by East 241st Street to the north, Furman to the east, buildings with frontages on East 240th Street to the south, and White Plains Road to the west (Figure 2).

We look forward to your review of the project. If you should have any questions regarding this matter, please do not hesitate to contact me at (212) 479-5566 or via email at TDevaney@langan.com.

Thank you for your assistance.

Sincerely,

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.

Thomas E. Devaney, AICP
Senior Environmental Planner

TED/rk
Enclosure(s):
Regional Location Map, Site Location Map

21 Penn Plaza, 360 West 31st Street, 8th Floor New York, NY 10001 T: 212.479.5400 F: 212.479.5444 www.langan.com
New Jersey • New York • Virginia • California • Pennsylvania • Connecticut • Florida • Abu Dhabi • Athens • Doha • Dubai • Istanbul

cc: Robert Kulikowski - Langan
Jonathan Seplowitz - Enclave on 241st LLC

Michael Keane

From: Robert Kulikowski
Sent: Tuesday, January 09, 2018 3:07 PM
To: Michael Keane
Subject: FW: 241st Street Rezoning (Traffic): Request for CEQR # 77DCP316X Reference # 77DCP316X-15-07122017191218
Attachments: Enclave_241st Street_Draft EAS_REVISED TRANSPORTATION SECTION_2018-01-05.pdf; APPENDIX C FIGURES_2018-01-05.pdf

Robert R. Kulikowski, Ph.D.
Senior Director - Environmental Planning
Direct: 212.479.5406
Mobile: 917.423.5568
File Sharing Link

LANGAN
www.langan.com

NEW YORK NEW JERSEY CONNECTICUT PENNSYLVANIA WASHINGTON, DC
VIRGINIA WEST VIRGINIA OHIO FLORIDA TEXAS ARIZONA CALIFORNIA
ABU DHABI ATHENS DOHA DUBAI ISTANBUL LONDON PANAMA

Langan's goal is to be SAFE (Stay Accident Free Everyday)

From: Colon, Henry [mailto:HColon@dot.nyc.gov]
Sent: Tuesday, January 09, 2018 2:49 PM
To: Christopher Lee (DCP) (CLee@planning.nyc.gov); Evan Lemonides (DCP)
Cc: Rasheed, Naim; Ahmed, Shakil; Robert Kulikowski
Subject: FW: 241st Street Rezoning (Traffic): Request for CEQR # 77DCP316X Reference # 77DCP316X-15-07122017191218

Hi Christopher and Evan:
We reviewed the consultant's revisions (attached) and have no further comments.
Thank you, Henry

From: Michael Keane [mailto:mkeane@Langan.com]
Sent: Friday, January 05, 2018 5:19 PM
To: Colon, Henry; Rasheed, Naim; Ahmed, Shakil; Christopher Lee (DCP) (CLee@planning.nyc.gov); Evan Lemonides (DCP) (ELEMONIDES@planning.nyc.gov); Mehdi Amjadi (TIMS)
Cc: Adnan Pasha; Robert Kulikowski; Brian Weinberg
Subject: RE: 241st Street Rezoning (Traffic): Request for CEQR # 77DCP316X Reference # 77DCP316X-15-07122017191218

Henry:

Attached, please find the revised EAS Transportation section for the proposed 241st Street Rezoning, along with Appendix C.

This revised section addresses the comments provided by DOT on 12/20/2017 (below).

Please confirm receipt of the attached.

We look forward to your feedback.

Thank you.

Michael Keane, AICP
Senior Environmental Planner
Direct: 212.479.5503
Mobile: 917.941.9886
File Sharing Link

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ABU DHABI ATHENS DOHA DUBAI ISTANBUL LONDON PANAMA

Langan's goal is to be SAFE (Stay Accident Free Everyday)

From: "Colon, Henry" <HColon@dot.nyc.gov>
Date: December 20, 2017 at 4:29:57 PM EST
To: "'Christopher Lee (DCP)'" <CLee@planning.nyc.gov>
Cc: "Rasheed, Naim" <nrasheed@dot.nyc.gov>, "Ahmed, Shakil" <SAhmed2@dot.nyc.gov>, "Evan Lemonides (DCP)" <ELEMONIDES@planning.nyc.gov>, "Mehdi Amjadi (TIMS)" <mamjadi@planning.nyc.gov>
Subject: RE: 241st Street Rezoning (Traffic): Request for CEQR # 77DCP316X Reference # 77DCP316X-15-07122017191218

Hi Christopher:
Below are my draft comments on the proposed action:
I will close out the CEQRView request
Thank you, Henry

Transportation Section

- Page 112 – Please have the consultant verify the total pedestrian totals (ins and outs) identified in the December 5th submittal with

the information presented in Figures C-29-C-32 in Appendix D.

- Page 125 - Please have the consultant review and clarify the on-site accessory parking discussion and clarify that the 63 accessory spaces in the Existing and No Build conditions will remain in the build condition (63+ 38 accessory spaces from site = 101 accessory spaces). The EAS identifies a 101-space garage but the project calls for 38 accessory spaces. In addition, please have the consultant provide a parking accumulation table as the parking discussion states that that the demand would be for 208 parking spaces and 101 accessory spaces would be provided.
- Page 126 - Please have the consultant ensure the intersection LOS analysis at White Plains Road and 241st Street reflects the future No Build and Build conditions as per DOT's comments and re-label the section as "Improvements" rather than mitigation. In addition, it was concluded that the signal at 241st Street and Furman Avenue was not warranted.
- Table J-21 should be relabeled Crash (not Accident) Data Summary.

From: Christopher Lee (DCP)
[mailto:CLee@planning.nyc.gov]
Sent: Thursday, December 07, 2017 7:40 PM
To: Rasheed, Naim; Colon, Henry
Cc: Mehdi Amjadi (TIMS); Evan Lemonides (DCP); Juton Horstman (DCP); Dana Driskell (DCP)
Subject: 241st Street Rezoning (Traffic): Request for CEQR # 77DCP316X Reference # 77DCP316X-15-07122017191218
Importance: High

Hello,

Please log into CEQR-View to view the details of this request and provide an acknowledgement that you have recorded it.

Thank you

Additional Notes:

The Department of City Planning is reviewing a rezoning application that will affect multiple sites in Bronx Community District 12. All relevant documents are located here. Please review the transportation analysis and provide fatal flaw comments ahead of our next coordination meeting in January.

Thanks,

CHRISTOPHER LEE
SENIOR PROJECT MANAGER - RESILIENCY, ENVIRONMENTAL ASSESSMENT & REVIEW DIVISION

NYC DEPT. OF CITY PLANNING
120 BROADWAY, 31ST FLOOR • NEW YORK, NY 10271
212.720.3429 I clee@planning.nyc.gov
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Environmental Protection

Vincent Sapienza, P.E.
Commissioner

Angela Licata
Deputy Commissioner of Sustainability

59-17 Junction Blvd.
Flushing, NY 11373

Tel. (718) 595-4398
Fax (718) 595-4422
alicata@dep.nyc.gov

March 9, 2018

Robert Dobruskin
Director, Environmental Assessment and Review Division
New York City Department of City Planning
120 Broadway, 31st Floor
New York, NY 10271

Re: East 241st Street Rezoning
Block 5087, Lots 1, 9, 12, 13, 14, 16, 18, 20, 22, 24, 28, 33, 40, 48, 53, 54, 55, 58, 65, and 128
CEQR # 18DCP094X

Dear Mr. Dobruskin:

The New York City Department of Environmental Protection, Bureau of Sustainability (DEP) has reviewed the February 2018 Environmental Assessment Statement (EAS) and the January 2015 Phase I Environmental Site Assessment (Phase I) prepared by Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. on behalf of Enclave Equities, LLC (applicant) for the above referenced project. It is our understanding that the applicant is requesting several discretionary actions (collectively, the Proposed Action) from the New York City Department of City Planning (DCP) that would affect Block 5087 in Bronx Community District 12 (Directly Affected Area). The Proposed Action includes a zoning map amendment to rezone Block 5087 from an M1-1 to an R7D zoning district with a C2-4 commercial overlay; a zoning text amendment to Appendix I: Transit Zone (Map 1) of the Zoning Resolution of the City of New York (ZR) to include Block 5087 within the Transit Zone; and a zoning text amendment to Appendix F of the ZR to designate a Mandatory Inclusionary Housing area on Block 5087. Further, the applicant intends to seek one or more financing mechanisms to help facilitate the Proposed Development, including, but not necessarily limited to, tax exempt bonds through the New York City Department of Housing Preservation and Development and the New York City Housing Development Corporation Mix and Match Program. The Proposed Action would facilitate construction of a 9-story (approximately 90 feet), approximately 207,925 gross-square-foot (gsf) mixed-use building on Block 5087, Lots 1, 9, and 12 (Proposed Development Site). The proposed mixed-use building would comprise approximately 159,875 gsf of residential space (186 dwelling units, 100 percent of which would be designated as permanently affordable); approximately 24,972 gsf of ground floor commercial space; and approximately 21,984 gsf of below-grade parking (47 spaces). The Proposed Action would also facilitate new residential and ground floor commercial use on the remaining lots within the Directly Affected Area. The approximately 103,532-square-foot Directly Affected Area have been divided into two categories:

Projected Development Sites and Potential Development Sites. Projected Development Site 1 is the Proposed Development Site, and comprises Lots 1, 9, and 12. Projected Development Site 2 comprises Lots 16 and 18. Projected Development Site 3 comprises Lots 22, 24, 28, 33, and 128. Projected Development Site 4 comprises Lot 40. Projected Development Site 5 comprises Lot 48. Potential Development Site A comprises Lot 13 and p/o Lot 65. Potential Development Site B comprises Lot 14 and p/o Lot 65. Potential Development Site C comprises Lot 20 and p/o Lot 65. Potential Development Site D comprises Lots 53 and 54. Potential Development Site E comprises Lots 55 and 58.

The January 2015 Phase I report revealed that historical on-site and surrounding area land uses consisted of a variety of residential, commercial, and industrial uses including automobile repair shops, gasoline filling stations, drycleaners, a rail yard, etc. Regulatory databases identified 12 spills within 1/8-mile; 8 underground storage tank sites, 20 aboveground storage tank sites, 9 historical drycleaners and 23 historical auto body shops within 1/4-mile; and 63 leaking storage tank sites and 1 Voluntary Cleanup site within 1/2-mile of the subject property.

Based upon our review of the submitted documentation, we have the following comments and recommendations to DCP:

Projected Development Site 1: Block 5087, Lots 1, 9, and 12 (Site under the control or ownership of the applicant), Projected Development Sites 2 through 5: Block 5087, Lots 16, 18, 22, 24, 28, 33, 40, 48, and 128), and Potential Development Sites A through E: Block 5087, Lots 13, 14, 20, 53, 54, 55, 58, and 65 (Sites not under the control or ownership of the applicant)

- Based on prior on-site and/or surrounding area land uses which could result in environmental contamination, DEP concurs with the EAS recommendation that an "E" designation for hazardous materials should be placed on the zoning map pursuant to Section 11-15 of the New York City Zoning Resolution for subject properties. The "E" designation will ensure that testing and mitigation will be provided as necessary before any future development and/or soil disturbance. Further hazardous materials assessments should be coordinated through the Mayor's Office of Environmental Remediation.

Future correspondence and submittals related to this project should include the following CEQR # **18DCP094X**. If you have any questions, you may contact Scott Davidow at (718) 595-7716.

Sincerely,

Wei Yu
Deputy Director, Hazardous Materials

c: R. Weissbard; S. Davidow; T. Estesen; M. Wimbish; W. Pugliese – DCP; O. Abinader – DCP; M. Bertini – OER

APPENDIX C: HAZARDOUS MATERIALS

PHASE I ENVIRONMENTAL SITE ASSESSMENT

PHASE I ENVIRONMENTAL SITE ASSESSMENT

for

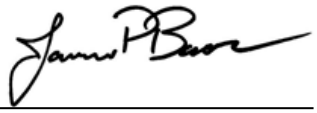
714 East 241st Street
Block 5087, Lot 1
(Former Lots 1, 3, 6, 59, 62, and 65)
Bronx, New York

Prepared For:

Enclave on 241 Street LLC
2975 Westchester Avenue, Suite 100
Purchase, New York 10577

Prepared By:

Langan Engineering, Environmental, Surveying, and Landscape Architecture, D.P.C.
555 Long Wharf Drive
New Haven, Connecticut 06511



Jamie P. Barr, LEP
Senior Associate/Vice President

LANGAN

9 January 2015
Langan Project No. 140115301

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EXECUTIVE SUMMARY

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. (Langan) was retained by Enclave on 241 Street LLC (the "User") to prepare a Phase I Environmental Site Assessment (ESA) for the property located at 714 East 241st Street in the Wakefield section of the Bronx, New York ("Subject Property"). The Subject Property (also identified as Tax Block 5087; Lot 1) is comprised of an approximate 28,718-square-foot irregularly shaped lot and includes approximately 100 feet of frontage along White Plains Road, 185 feet of frontage along East 241st Street, and 135 feet of frontage along Furman Avenue. The Subject Property is comprised of the following former addresses and lots:

- 714 East 241st Street (former lot 1) – Developed with a vacant one-story office building with a basement.
- 4643 Furman Avenue (former lot 3) – Developed with an asphalt-paved parking lot.
- 4641 Furman Avenue (former lot 6) – Undeveloped dirt and grass lot.
- 4644 White Plains Road (former lot 59) – Developed with a vacant one-story former gasoline station and auto body shop (since circa 1950)
- 700 East 241st Street (former lot 62) – Developed with a vacant one-story former gasoline station and auto body shop (since circa 1935)
- 704 East 241st Street (former lot 65) – Undeveloped dirt and grass lot.

The Subject Property contains three onsite buildings including an approximate 1,086-square foot one-story office building with basement (former lot 1), an approximate 3,375-square foot one-story former auto body shop building (former lot 59), and an approximate 1,500-square foot one-story former auto body shop building (former lot 62). The Subject Property also contains asphalt- and concrete-paved exterior driving/parking areas and sparsely vegetated undeveloped area. The Subject Property is bordered to the northwest by White Plains Road and an overhead Metropolitan Transportation Authority (MTA) rail line, to the northeast by East 241st Street, to the southeast by Furman Avenue, and to the southwest by residential and commercial properties. The Subject Property is subject to New York State Department of Environmental Conservation (NYSDEC) review under the Spills Program (Spill No. 12-14956).

This Phase I ESA was conducted in accordance with the American Society for Testing Materials (ASTM) Practice E1527-13 (Standard Practice for ESA: Phase I ESA Process) and the United States Environmental Protection Agency's (USEPA) All Appropriate Inquiry (AAI) Rule. The objective of this Phase I ESA was to identify the presence or likely presence, use, or release on the Subject Property of hazardous substances or petroleum products as defined in ASTM

E1527-13 as a recognized environmental condition (REC) and to satisfy the AAI needed to qualify for the bona fide prospective purchaser liability protections available under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA).

Recognized Environmental Conditions

The Phase I ESA identified the following RECs for the Subject Property:

REC 1 – Historical Site Use

Prior to becoming vacant in December 2014, portions of the Subject Property were extensively used for auto repair and gasoline fueling purposes since at least 1935. Evidence of former auto repair equipment (empty automobile gas tanks, miscellaneous car parts, unlabeled 55-gallon drums, etc.) was apparent throughout the interior and exterior of the Subject Property. Inadvertent releases of solvents, petroleum products, metals, polychlorinated biphenyls (PCB) and/or other chemicals used during historical operations may have adversely impacted soil, groundwater, building components and/or soil vapor. Discoloration, staining, and stressed vegetation were also apparent throughout the interior and exteriors of the Subject Property (primarily former lots 6, 59, 62, and 65), suggesting incidental releases of petroleum products during auto maintenance. The concrete slabs of the buildings were compromised in several areas. Because fractures in the slab provide a conduit for spilled motor oils and/or petroleum products to impact subsurface conditions, former use of the Subject Property constitutes a REC.

REC 2 – On-Site Petroleum Bulk Storage

The following evidence of historical petroleum bulk storage was identified:

- One 4,000-gallon gasoline UST (temporarily closed in-place), one 2,000-gallon gasoline UST (temporarily closed in-place), one 550-gallon gasoline UST (closed in-place), and one 550-gallon gasoline UST (closed-removed) had been present on former lot 62 since at least 1935.
- According to historical Sanborn Fire Insurance Maps and New York State Department of Buildings (NYCDOB) records, a gasoline service station historically occupied former lot 59. Additionally, a 1965 Certificate of Occupancy (C of O) indicates that a fire department gasoline tank installation approval for former lot 59. Releases from the suspect tanks may have impacted soil, groundwater, and soil vapor.

- During the site reconnaissance, a 275-gallon heating oil AST was observed in the basement of former lot 1. The AST was observed to be in good condition with no staining or visual impacts to the floor below the AST; however, a brick-lined floor sump with a dirt base was observed below the AST. Because the floor sump provides a conduit for spilled heating oil to impact subsurface conditions, the heating oil AST and floor sump constitutes a REC.

The 4,000-gallon gasoline UST and 2,000-gallon gasoline UST located on former lot 62 and the 275-gallon heating oil AST located of former lot 1 were temporarily closed in-place on 22 December 2014. Based on the historic usage and presumed age of the tanks, the known and suspect historical petroleum storage tanks are a REC.

REC 3 – New York State Department of Environmental Conservation (NYSDEC) Spill No. 1214956

On 25 January 2013, during a Phase II subsurface investigation, the NYSDEC issued Spill Number 1214956 to former lot 62 when elevated concentrations of petroleum volatile organic compounds (VOCs) were identified in soil and groundwater in the vicinity of the gasoline USTs located in former lot 62. This spill case is currently open.

REC 4 – Current and Historical Use of Surrounding Properties

Current and historical uses of surrounding properties include:

- Four drycleaners (4811 White Plains Road, 4701 White Plains Road, 4706 White Plains Road, and 4707 White Plains) with years of operation ranging from 1949 to present. Each of the four drycleaners are located upgradient of the Subject Property;
- Nine auto repair facilities (730 East 241st Street, 740 East 241st Street, 750 East 241st Street, 712 East 240th Street, 4580 White Plains Road, 4642 White Plains Road, 4609 Furman Avenue, 4619 Furman Avenue, and 4640 Furman Avenue) with years of operation ranging from 1935 to 2007. The auto repair facilities are located cross-gradient and downgradient of the Subject Property ;
- Two gasoline filling stations (740 East 241st Street and 750 East 241st Street) with years of operation ranging from 1935 to 1993. The former filling stations are located crossgradient of the Subject Property;

- New York City Transit System Rail Yard (located approximately 150 feet southeast and crossgradient of the Subject Property) with years of operation ranging from 1918 to 2007.

Potential petroleum and solvent releases associated with the historical and current surrounding property uses may have adversely impacted groundwater and/or soil vapor at the Subject Property and is considered a REC.

Historic RECs (HRECs) or Controlled RECs (CRECs) were not identified on the Subject Property or the immediately adjacent properties.

Business Environmental Risk

A Business Environmental Risk (BER) is defined by ASTM 1527-13 as a risk, which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice. The following BER was identified at the Subject Property:

BER 1 – Historic Urban Fill Material

According to the January 2013 Phase II subsurface investigation, historic fill material consisting of brown silty-sand with brick was encountered between 1 and 3 feet below ground surface (bgs) across the subject property. The presence of impacted fill will require implementation of soil handling and management procedures during site redevelopment to address excavation, re-use, handling, and offsite disposal of this material.

Additional Non- ASTM Issues

The following Non-ASTM environmental issues were identified at the Subject Property:

Asbestos, Lead, and Polychlorinated Biphenyls

A formal survey to identify asbestos containing materials (ACM), lead-based paint (LBP), and PCBs in building materials was not conducted as part of this Phase I ESA. Based on the age of the building, ACM, LBP, and PCB-containing materials are likely present.

Radon

According to the NYSDOH, a total of 31 radon tests have been conducted in Bronx County with results indicating that 4% of living areas and 58% of basements have radon concentrations above 4 picocuries per liter (pCi/L). Based on this data, there is a potential for radon to accumulate in buildings; radon represents an environmental concern.

1.0 INTRODUCTION

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. (Langan) was retained by Enclave on 241 Street LLC (the "User") to prepare a Phase I Environmental Site Assessment (ESA) for the property located at 714 East 241st Street in the Wakefield section of the Bronx, New York ("Subject Property"). The Subject Property (also identified as Tax Block 5087; Lot 1) is comprised of an approximate 28,718-square-foot irregularly shaped lot and includes approximately 100 feet of frontage along White Plains Road, 185 feet of frontage along East 241st Street, and 135 feet of frontage along Furman Avenue. This Phase I ESA was performed in support of the User's due diligence.

1.1 Purpose

The purpose of this Phase I ESA is to accomplish the following:

(1) Identify Recognized Environmental Conditions (RECs) in connection with the Subject Property, as defined in The Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E1527-13, which states: The presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

(2) Satisfy the criteria of United States Environmental Protection Agency (USEPA) 40 Code of Federal Regulations (CFR) Part 312 Subpart C Standards and Practices §312.20 AAI Rule.

1.2 Scope of the ESA

This Phase I ESA was conducted utilizing a standard of good commercial and customary practice that is consistent with American Society for Testing and Materials (ASTM) E1527-13. Any significant scope-of-work additions, deletions, or deviations to ASTM E1527-13 are noted in Section 8 of this report. In general, the scope of this assessment consisted of obtaining information from the User; reviewing reasonably ascertainable information and environmental data relating to the Subject Property; reviewing maps and records maintained by federal, state,

and local regulatory agencies; interviewing persons knowledgeable about the Subject Property; and conducting a site inspection. The specific scope of this assessment included the following:

1. A site reconnaissance to characterize conditions and assess the Subject Property's location with respect to adjoining and surrounding property uses and natural surface features. The reconnaissance included the surrounding roads and observations of surrounding properties from public rights-of-way to identify obvious potential environmental conditions on neighboring properties. The site reconnaissance was conducted in a systematic manner focusing on the spatial extent of the Subject Property and then progressing to adjacent and surrounding properties. Photographs taken as part of the site reconnaissance are provided in Appendix A.

2. A review of ASTM Practice E 1527-13 User and Owner Questionnaires. Copies of these questionnaires are included in Appendix B.

3. A review of available previous environmental reports completed for the Subject Property. Copies of the reports are included as Appendix C.

4. A review of environmental databases maintained by the USEPA, state, and local agencies within the approximate minimum search distance. The environmental database report was provided by Environmental Data Resources, Inc. (EDR), and the report is included in Appendix D.

5. Freedom of Information Act (FOIA) requests were sent to federal, state, and local agencies. Copies of the FOIA requests and responses are included in Appendix E.

6. New York City Department of Buildings (NYCDOB) records, a Planning Commission Zoning Map, and New York City Department of Finance (NYCDOF) records were reviewed. Available Deed Records, NYCDOB records and the Zoning Map and Tax Map information are included in Appendices F, H, H, and I, respectively.

7. A review of physical characteristics of the Subject Property through a review of referenced sources for topographic, geologic, soils, and hydrologic data.

8. A review and interpretation of aerial photographs, Sanborn Fire Insurance Maps (Sanborn Maps), historical topographic maps, and city directories to identify previous activities on and in the vicinity of the Subject Property. Copies are included in Appendices J, K, L, and, M, respectively.

9. A review of published radon occurrence maps to determine if the Subject Property is located in an area with a propensity for elevated radon levels. A USEPA Radon Map is provided in Appendix O.

1.3 Assumptions, Limitations, and Exceptions

This Phase I ESA was prepared for Enclave on 241 Street LLC for the Subject Property located at 714 East 241st Street in the Wakefield section of the Bronx, New York. The report is intended to be used in its entirety. Excerpts taken from this report are not necessarily representative of the assessment findings. Langan cannot assume responsibility for use of this report for any property other than the Subject Property addressed herein, or by any other third party without a written authorization from Langan.

Langan's scope of services, which is described in Section 1.2, was limited to that agreed to with the User and no other services beyond those explicitly stated are implied. The services performed and agreed upon for this effort comports to those prescribed in the ASTM Standard E1527-13. Intrusive sampling (i.e. soil borings and groundwater sampling) was not performed as part of this Phase I ESA.

This Phase I ESA was not intended to be a definitive investigation of possible environmental impacts at the Subject Property. The purpose of this investigation was limited to determining if there is reason to suspect the possibility of RECs. It should be understood that even the most comprehensive Phase I ESA may fail to detect environmental liabilities at a particular Subject Property. Therefore, Langan cannot "insure" or "certify" that the Subject Property is free of environmental impacts. No expressed or implied representation or warranty is included or intended in this report, except that our services were performed, within the limits prescribed by our client, with the customary standard of care exercised by professionals performing similar services under similar circumstances within the same jurisdiction.

The conclusions, opinions, and recommendations provided in this report are based solely on the specific activities as required for the performance of ASTM E1527-13 and are intended exclusively for the purpose stated herein, at the specified Subject Property, as it existed at the time of our site visit.

2.0 SITE DESCRIPTION

2.1 Location and Description

The Subject Property (also identified as Tax Block 5087; Lot 1) is comprised of an approximate 28,718-square-foot irregularly shaped lot and includes approximately 100 feet of frontage along

10.0 REFERENCES

The following references were reviewed as part of this Phase I ESA:

1. Environmental Data Resources, Inc., Inquiry Number: 4163860.9, December 17, 2014. Aerial Photo Decade Package.

2. Environmental Data Resources, Inc., Inquiry Number: 4163860.5, December 14, 2014. City Directory Abstract.

3. Environmental Data Resources, Inc., Inquiry Number: 4002757.4, December 17, 2014. Historical Topographic Map Report.

4. Environmental Data Resources, Inc., Inquiry Number: 4163860.2s, December 18, 2014. Radius Map with GeoCheck.

5. Environmental Data Resources, Inc., Inquiry Number: 4163860.3, December 18, 2014. Sanborn Map Report.

6. Environmental Protection Agency, USEPA Map of Radon Zones.

7. New York City Department of Buildings, Building Information System, http://www.nyc.gov/html/dob/html/bis/bis.shtml, reviewed December 29, 2014.

8. New York City Planning Commission. October 5, 2011. Zoning Map 2a.

9. New York City Department of Finance, Office of the City Register, Automated City Register Information System (ACRIS) website, http://a836-acris.nyc.gov/CP/, reviewed December 29, 2014.

10. NYC Oasis Maps: http://www.oasisnyc.com/map.aspx

11. NYCityMap, http://gis.nyc.gov/doitt/nycitymap/

12. "Bedrock and Engineering Geologic Maps of Bronx County and Parts of New York and Queens Counties, New York", USGS, 1994.

White Plains Road, 185 feet of frontage along East 241st Street, and 135 feet of frontage along Furman Avenue. The Subject Property is comprised of former lots 1, 3, 6, 59, 62, and 65; however the six former lots were merged into one, and the NYC Department of Finance Division of Land Records has assigned tentative lot number 1 to the Site, pending final approval by the NYC Cartographer. The Subject Property is comprised of the following former addresses and lots:

- 714 East 241st Street (former lot #1) – Developed with a vacant one-story office building with a basement.
- 4643 Furman Avenue (former lot 3) – Developed with an asphalt-paved parking lot.
- 4641 Furman Avenue (former lot 6) – Undeveloped dirt and grass lot.
- 4644 White Plains Road (former lot 59) – Developed with a vacant one-story former gasoline station and auto body shop (since circa 1950)
- 700 East 241st Street (former lot 62) – Developed with a vacant one-story former gasoline station and auto body shop (since circa 1935)
- 704 East 241st Street (former lot 65) – Undeveloped dirt and grass lot.

The Subject property contains three onsite buildings including an approximate 1,086-square foot one-story office building with basement (former lot 1), an approximate 3,375-square foot one-story former auto body shop building (former lot 59), and an approximate 1,500-square foot one-story former auto body shop building (former lot 62). The Subject Property also contains asphalt- and concrete-paved exterior driving/parking areas and sparsely vegetated undeveloped area. The Subject Property is bordered to the northwest by White Plains Road and an overhead Metropolitan Transportation Authority (MTA) rail line, to the northeast by East 241st Street, to the southeast by Furman Avenue, and to the southwest by residential and commercial properties. The Subject Property is subject to New York State Department of Environmental Conservation (NYSDEC) review under the Spills Program (Spill No. 12-14956).

According to the United States Geological Survey (USGS) Bronx Quadrangle 7.5-minute Series Topographic Maps, the Subject Property sits at an elevation of approximately 156 feet above mean sea level (msl). The topography in the immediate area of the Subject Property is generally flat; however, overall topography generally slopes to the south. The approximate depth to groundwater is estimated at 10 to 12 feet bgs and, based on local topography, is expected to flow to the south-southwest. Site reconnaissance photographs are presented in Appendix A.

Based on visual observations of the surrounding area made during the site reconnaissance and a review of historical aerial photographs and maps, the Subject Property is located in an area primarily characterized by mixed commercial, residential, and industrial use.

The following table summarizes adjoining and surrounding property usage:

Direction	Adjoining Properties	Surrounding Properties
Northwest	White Plains Road and an overhead MTA rail line	Multiple-story residential, commercial, and industrial buildings occupy the remaining surrounding properties.
Northeast	Furman Avenue	
Southeast	Furman Avenue and Lots 9, 12, 13, 14, 16, 18, 20, 22, and 33 (residential and commercial properties).	
Southwest	Block 5087, Lots 40, 48, 53, 54, 55, and 58 (residential and commercial properties)	

2.2 Description of Subject Property Improvements

The Subject Property is currently vacant; however, was most recently occupied by Caribbean Auto gasoline filling station and auto body shop (former lot 62), Farouk's Auto Collision LTD Auto body shop (former lot 59), and the Law Office of Maxwell S. Pfeifer (former lot 1). A paved parking area (former lot 3), a vacant undeveloped lot (former lot 6), and a partially paved vacant undeveloped lot (former lot 65) occupy the remainder of the Subject Property. Improvements are summarized in the following table:

SUBJECT PROPERTY IMPROVEMENTS	
Size of the Subject Property	Lot: 28,718 square feet (approximate)
Buildings/Spaces/Structures	Improved with three one-story buildings: Former lot 1: 1,086 square foot (approximate) Former lot 59: 3,375 square foot (approximate) Former lot 62: 1,500 square foot (approximate) The remainder of the Subject Property is comprised of asphalt- and concrete-paved exterior driving/parking areas and sparsely vegetated undeveloped areas.

SUBJECT PROPERTY IMPROVEMENTS	
Surface Water	Surface water is not located on the Subject Property. The nearest surface water body is the Bronx River located approximately 0.35-miles west of the Subject Property.
Potable Water Source	New York City
Sanitary and Storm Sewer Utilities	New York City
Electrical Utilities	Consolidated Edison Company of New York, Inc.
Construction Completion Date	Former lot 62: 1935; former lot 59: 1930; former lot 1: 1930
General Construction Type	Buildings at former lots 62 and 59 are constructed of brick and concrete masonry with wood trusses. The building at former lot 1 is constructed of a concrete and block basement, brick walls, and wood trusses.
Heating System Type	The buildings at former lots 1 and 59 were heated by heating oil while a heat source for the building at former 62 is unknown.
Emergency Power	None

2.3 Title Records

Langan researched ownership records through the New York City Department of Finance, Office of the City Register, Automated City Register Information System (ACRIS) website at http://a836-acris.nyc.gov/CP/. ACRIS listed Enclave on 241 Street LLC as the current owner of former lots 62, 65, 1, 3, and 6 and 4644 LLC as the current owner of former lot 59. The following table summarizes the deed information for the Subject Property:

Former lot 62		
Name	**Relationship to Property**	**Address and Phone Number**
Enclave on 241 Street LLC	Owner (2014 - present)	2975 Westchester Avenue Purchase, NY 10577
Maxwell S Pfeifer	Owner (2012 - 2014)	714 East 241st Street Bronx, NY 10470
Fifty Two Associates, Inc.	Owner (1989 – 2012)	714 East 241st Street Bronx, NY 10470
Florence Fenster	Owner (1984 – 1989)	714 East 241st Street Bronx, NY 10470

Rachel Shufandler	Owner (1976 – 1984)	714 East 241st Street Bronx, NY 10470
Fifty Two Associates, Inc.	Owner (prior to 1976)	714 East 241st Street Bronx, NY 10470
Former lot 59		
Name	**Relationship to Property**	**Address and Phone Number**
4644 LLC	Owner (2014 – present)	5600A Broadway Bronx, NY 10463
Wakefield Autobody LLC	Owner (2007 - 2014)	279 North Broadway, #2B Yonkers, NY 10701
Vincent J Caroprese	Owner (2003 – 2007)	125 Reed Avenue Pelham Manor, NY 10803
Vincent J Caroprese	Owner (1991 – 2003)	125 Reed Avenue Pelham Manor, NY 10803
Filomena Caroprese	Owner (prior to 1991)	669 East 221st Street Bronx, NY 10467
Former lot 1		
Name	**Relationship to Property**	**Address and Phone Number**
Enclave on 241 Street LLC	Owner (2014 – present)	2975 Westchester Avenue Purchase, NY 10577
Maxwell S Pfeifer	Owner (1976 – 2014)	714 East 241st Street Bronx, NY 10470
Estelle Pfeifer	Owner (prior to 1976)	3155 Sedgwick Avenue Bronx, NY 10470
Former lot 3		
Name	**Relationship to Property**	**Address and Phone Number**
Enclave on 241 Street LLC	Owner (2014 – present)	2975 Westchester Avenue Purchase, NY 10577
Maxwell S Pfeifer	Owner (1974 – 2014)	714 East 241st Street Bronx, NY 10470
Ella B Hagedorn	Owner (prior to 1974)	102 South Sixth Avenue Mount Vernon, NY
Former lot 6		
Name	**Relationship to Property**	**Address and Phone Number**
Enclave on 241 Street LLC	Owner (2014 – present)	2975 Westchester Avenue Purchase, NY 10577
Maxwell S Pfeifer	Owner (2012 – 2014)	714 East 241st Street Bronx, NY 10470
Fifty Two Associates, Inc.	Owner (1996 – 2012)	714 East 241st Street Bronx, NY 10470

Gaetana Migliaccio	Owner (prior to 1996)	4641 Furman Avenue Bronx, NY 10470
Former lot 65		
Name	**Relationship to Property**	**Address and Phone Number**
Enclave on 241 Street LLC	Owner (2014 – present)	2975 Westchester Avenue Purchase, NY 10577
Maxwell S Pfeifer	Owner (2012 – 2014)	714 East 241st Street Bronx, NY 10470
Fifty Two Associates, Inc.	Owner (2003 – 2012)	714 East 241st Street Bronx, NY 10470
Mateo Pina	Owner (2003)	4615 Furman Avenue Bronx, NY 10469
Garden Place Improvement Corp.	Owner (1989 - 2003)	714 East 241st Street Bronx, NY 10470
Anthony W. Santelia	Owner (1989)	4626 Garden Place Bronx, NY 10470
Tavo Enterprises, Inc.	Owner (1983)	4609 Furman Avenue Bronx, NY 10470
George Bakker	Owner (1989)	155 Kimball Terrace Yonkers, NY
Garden Place Improvement Corp.	Owner (1979 - 1989)	714 East 241st Street Bronx, NY 10470
Anthony W. Santelia	Owner (1979)	4626 Garden Place Bronx, NY 10470
Garden Place Improvement Corp.	Owner (1977 - 1979)	714 East 241 Street Bronx, NY 10470
Bernard Perrone	Owner (1977)	4627 Furman Avenue Bronx, NY 10470
Tavo Enterprises, Inc.	Owner (1977)	4609 Furman Avenue Bronx, NY 10470
Garden Place Improvement Corp.	Owner (prior to 1977)	714 East 241st Street Bronx, NY 10470

3.0 USER PROVIDED INFORMATION

3.1 User Questionnaire

Per ASTM E1527-13, a user and owner questionnaire was provided to inquire about specialized information related to the Subject Property. Information provided in the user and owner questionnaires is included throughout this report. A copy of the completed questionnaires are provided in Appendix B.

3.2 Previous Environmental Reports

Langan reviewed previous environmental reports that were provided by the User/Owner and pertain to the Subject Property. Copies of those reports and correspondences are included in Appendix C. The following is a summary of the reports:

Document	Comments
Phase I ESA – 700 East 241st Street, Bronx, New York; by Giorgio Engineering International, P.C. (Giorgio), February 12, 2008	Giorgio completed a Phase I ESA at the Subject Property and identified the following RECs: • REC-1: Lack of waste oil manifests • REC-2: Presence of a 55-gallon waste oil drum on the Subject Property
Phase II Subsurface Investigation Report– 700 East 241st Street, Bronx, New York; by Environmental Business Consultants (EBC), January 31, 2013	EBC completed a Phase II subsurface investigation at the Subject Property that included the completion of a geophysical investigation, the completion of nine soil borings and collection of 10 soil samples, and the installation and sampling of six temporary monitoring wells. The Phase II report concluded the following: • The geophysical survey identified three major anomalies areas along the northern corner of the Subject Property. Based on their reflection rates and their proximities, these anomalies are indicative of the two known USTs located approximately 2 to 3 ft bgs and a third UST approximately 2 to 3 ft bgs closed in place UST. • A historic fill layer with thickness ranging from 1 to 3 feet was identified throughout the Subject Property. • Odors were observed in one soil boring at a depth of approximately 5 to 7 feet below ground surface. • Soil analytical results confirmed the presence of petroleum impacts with exceedances of the Restricted Residential Cleanup Objectives for petroleum related VOCs and SVOCs. • Groundwater analytical results confirmed the presence of a petroleum release and Spill Case No. 12-14956 was opened by NYSDEC on 25 January 2013.
Temporary Tank Closure Affidavit for 700 East 241st Street, by Brookside Environmental, Inc., January 6, 2015	Affidavit submitted to the FDNY Bureau of Fire Prevention by Brookside Environmental attesting to the proper cleaning and temporary closure of two gasoline USTs and one waste oil AST that remained at 700 East 241st Street.
Temporary Tank Closure Affidavit for 714 East 241st Street (former lot 1), by Brookside Environmental, Inc., January 6, 2015	Affidavit submitted to the FDNY Bureau of Fire Prevention by Brookside Environmental attesting to the proper cleaning and temporary closure of one 275-gallon heating oil AST that remained at the former 700 East 241st Street.

4.0 RECORDS REVIEW

4.1 Environmental Records

A copy of regulatory database information was provided by EDR and is included in Appendix D. The EDR report is a listing of sites identified on select federal and state standard source environmental databases within the approximate search radius specified by ASTM Standard Practice for E1527-13. Langan reviewed each environmental database on a record-by-record basis to determine if certain sites identified in the report are suspected to represent a potential impact to the Subject Property. Langan also reviewed "Orphan Sites" listed within the report. Orphan Sites are those sites that could not be mapped due to inadequate address information. Orphan Sites that were identified by Langan within the ASTM search radii, either during the site reconnaissance or by cross-referencing to mapped listings, are addressed in the discussion below. All distances to adjacent properties are measured from the perimeter of the Subject Property.

The following table lists the number of sites by database within the prescribed search radius appearing in the EDR Report.

Database Record Summary			
Database Reviewed (Date of government version)	**Minimum Search Area**	**Subject Property listed**	**Number of Sites Within Minimum Search Area**
USEPA DATABASES			
National Priorities List (NPL) (9/29/2014)	1 Mile Radius	No	0
Delisted NPL (9/29/2014)	1/2 Mile Radius	No	0
Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) and CERCLIS No Further Remediation Action Planned (NFRAP) (6/10/2014)	1/2 Mile Radius	No	1
Resource Conservation and Recovery Act (RCRA) Corrective Reports (CORRACTS) (6/10/2014)	1 Mile Radius	No	0
RCRA Treatment, Storage, and Disposal Facilities (TSDF) (6/10/2014)	1/2 Mile Radius	No	0

Database Record Summary			
Database Reviewed (Date of government version)	**Minimum Search Area**	**Subject Property listed**	**Number of Sites Within Minimum Search Area**
RCRA Generators (6/10/2014)	Subject Property and Adjoining	No	0
Facility Index System/Facility Registry System (FINDS) Database (8/16/2014)	Subject Property	Yes	1
Environmental Response Notification System (ERNS) (9/29/2014)	Subject Property	No	0
Engineering Controls (EC) Subject Propertys Lists (9/24/2014)	Subject Property	No	0
Institutional Controls (IC) Subject Propertys Lists (9/24/2014)	Subject Property	No	0
NYSDEC DATABASES			
Hazardous Waste Disposal Subject Propertys (SHWS) (9/24/2014) and Delisted SHWS (7/16/2014)	1 Mile Radius	No	2
Hazardous Substance Waste Disposal Subject Property Inventory (HSWDS) (1/1/2003)	1/2 Mile Radius	No	0
Solid Waste or Landfill Facilities (SWF/LF) (10/7/2014)	1/2 Mile Radius	No	2
Leaking Tanks (LTANKS) (8/18/2014)	1/2 Mile Radius	No	63
SPILLS Information Database (NY SPILLS) (8/18/2014)	1/8 Mile Radius	Yes	12
EC Sites Lists (7/16/2014)	Subject Property	No	0
IC Sites Lists (7/16/2014)	Subject Property	No	0
Voluntary Cleanup Program (VCP) (9/24/2014)	1/2 Mile Radius	No	1
Brownfields (9/24/2014)	1/2 Mile Radius	No	0
Petroleum Bulk Storage Facilities (PBS) UST and Aboveground Storage Tanks (AST) Databases (9/30/2014)	Subject Property and Adjoining	Yes	1

Database Record Summary			
Database Reviewed (Date of government version)	**Minimum Search Area**	**Subject Property listed**	**Number of Sites Within Minimum Search Area**
Chemical Bulk Storage (CBS) UST and AST Databases (9/30/2014)	Subject Property and Adjoining	No	0
Major Oil Storage Facilities (MOSF) UST and AST Databases (9/30/2014)	Subject Property and Adjoining	No	0
Registered and Historical Drycleaners (DRYCLEANERS) (10/17/2014)	1/4 Mile Radius (N/A)	No	2
NY E Designation (9/4/2014)	1/8 Mile Radius	No	8
EDR (PROPRIETARY) DATABASES			
EDR Former Manufactured Gas Plant (MGP) Sites (N/A)	1 Mile Radius (N/A)	No	1
EDR US Hist Auto Stat (N/A)	1/4 Mile Radius (N/A)	Yes	23
EDR US Hist Cleaners (N/A)	1/4 Mile Radius (N/A)	No	9

N/A Not Applicable; databases with a "Not Applicable" Minimum Search Radius are databases reviewed as part of the Phase I ESA but not required as per ASTM E1527-13.

A description of the reviewed databases is provided in the EDR Report (Appendix D). A summary of Subject Property database listings and other sites identified within the prescribed search area is presented below:

4.1.1 Federal Agency Database Findings

The Subject Property and/or sites within their respective minimum search distances as specified by ASTM E1527-13 were not listed in the following federal agency databases: NPL, Delisted NPL, RCRA CORRACTS, RCRA TSDF, RCRA Generators, ERNS, EC, and IC.

CERCLIS NFRAP Database

The CERCLIS NFRAP database maintains archived information on sites that have been removed from the inventory of CERCLIS sites. The minimum search radius for the CERCLIS NFRAP database includes the Subject Property and sites within ½-mile of the Subject Property.

The Subject Property was not listed in the database; however, one site was listed within the search radius. Based on the nature of the listing and the distance from Subject Property (more than 1,400 feet), this property is not considered a REC.

FINDS Database

The FINDS database contains both facility information and "pointers" to other sources that contain more detail. The minimum search radius for the FINDS database includes the Subject Property. The Subject Property was identified in the FINDS database (registry ID: 110019278253) under the New York Facility Information System, which is the NYSDEC's information system for tracking environmental facility information across the State. As the FINDS database does not contain specific environmental records, this discovery is not considered a REC.

4.1.2 State Agency Database Findings

The Subject Property and/or sites within their respective minimum search distances as specified by ASTM E1527-13 were not listed in the following state agency databases: HSWDS, EC Sites List, IC Sites List, Brownfields, CBS, and MOSF.

SHWS Database

The SHWS database maintains information regarding the investigation and cleanup of suspected hazardous waste sites. The minimum search radius for the SHWS database includes the Subject Property and any sites within a 1-mile radius. The Subject Property was not listed in the SHWS database; however, two sites were listed within the search radius. Based on the distance from the Subject Property (more than 1,400 feet) and the listings being located topographically downgradient to the Subject Property, the SHWS listings are not considered RECs.

SWF/LF Database

The SWF/LF database is a comprehensive listing of State permitted/recorded solid waste facilities. The minimum search radius for the SWF/LF database includes the Subject Property and any sites within a ½-mile radius. The Subject Property was not listed in the SWF/LF database; however, two sites were listed within the search radius. Based on the distance from the Subject Property (more than 2,000 feet) and the sites being located topographically downgradient to the Subject Property, the SWF/LF database listings are not considered RECs.

LTANKS Database

The LTANKS database contains an inventory of reported leaking storage tank incidents, including leaking USTs and ASTs. The minimum search radius for the LTANKS database includes the Subject Property and any sites within a ½-mile radius. The Subject Property was not listed in the database; however, 63 sites were listed within the search radius. The listed incidents have been primarily caused by tank test failures, tank failures, and tank overfills. 56 of the 63 listings have been granted closed status by the New York State Department of Environmental Conservation (NYSDEC). Based on the nature of the seven open listings and their distance from Subject Property (more than 1,800-feet), the LTANK listings are not considered RECs.

Spills Database

The NY Spills database is an inventory of sites where spills have been identified and reported to the NYSDEC. The minimum search radius for the Spills database includes the Subject Property and any sites within a 1/8-mile radius. The Subject Property was identified in the Spills database and is discussed below:

Site Name: Gas Station
Site Address: 700 E 241st Street
Location: Northern portion of the Subject Property (former lot 62)
Classification: Open Spill
Description: During a Phase II ESI of the Subject Property, soil and groundwater analytical results identified a release from onsite USTs had occurred. The release was attributed to equipment failure of the onsite USTs. The spill was reported on 25 January 2013 and was designated NYSDEC Spill Case No. 1214956.

As petroleum impacts were confirmed on the Subject Property by analytical results of soil and groundwater, the spill occurring on the Subject Property, and the spill being listed as open, this listing is considered a REC.

Additionally, 11 offsite properties were listed within the search radius, of which all 11 incidents have been granted closed status by the NYSDEC. Based on the nature of the listings, the sites being topographically downgradient to the Subject Property, and the sites being listed as closed, these offsite Spills database listings are not considered RECs.

VCP Database

The VCP database is a listing of all properties enrolled or previously enrolled in the New York State VCP. The minimum search radius for the VCP database is Subject Property and sites within ½-mile of the Subject Property. The Subject Property was not listed in the database; however, one site was listed within the search radius. Based on the nature of the listing, the distance from Subject Property (more than 1,650 feet) the VCP database listing is not considered a REC.

PBS UST/AST Databases

The PBS UST/AST databases are listings of all properties which have petroleum storage capacities in excess of 1,100-gallons and less than 400,000-gallons. The minimum search radius for the PBS UST/AST databases are the Subject Property and adjoining properties. The Subject Property was listed in the databases for both USTs and ASTs. No adjoining properties were listed in the databases. According to the database, the following table summarizes the USTs and ASTs identified on the Subject Property:

Property Name/Location	Facility ID	Tank ID	Type and Size of Tank	Stored Material	Status of Tank
241 Gas Corp 700 East 241st Street	2601315	247895	275-gallon AST	#2 Fuel Oil	In Service
	2601315	247896	250-gallon AST	Waste Oil	In Service
	2601315	45419	4,000-gallon UST	Gasoline/Ethanol	In Service
	2601315	45420	2,000-gallon UST	Gasoline/Ethanol	In Service
	2601315	45421	550-gallon UST	Gasoline	Closed In-Place
	2601315	45422	550-gallon UST	#2 Fuel Oil	Closed In-Place
52 Associates 700-714 East 241st Street	2611478	236989	275-gallon AST	#2 Fuel Oil	"Converted to Non-Regulated Use" (Likely a duplicate listing of Tank ID 247895)

52 Associates 700-714 East 241st Street	2611478	236990	250-gallon AST	Waste Oil	"Converted to Non-Regulated Use" (Likely a duplicate listing of Tank ID 247896)

Potential leaks or spills of petroleum may have adversely impacted soil, groundwater, and/or soil vapor at the Subject Property; therefore, the former onsite storage of petroleum constitutes a REC.

Drycleaners Database

The Drycleaners database is a listing of all registered drycleaning facilities. The minimum search radius for the Drycleaners database is the Subject Property and sites within 1/4-mile of the Subject Property. The Subject Property was not listed in the database; however, two sites were listed within the search radius. Both facilities identified in the database (4811 White Plains Road located approximately 1,010 feet to the northwest and upgradient of the Subject Property and 4706 White Plains Road located approximately 93 feet to the northwest and upgradient of the Subject Property) are also listed as RCRA-SQ (4811 White Plains Road) and RCRA-CESQ (4706 White Plains Road). According to the database report, these dry cleaners have been operational since approximately 1986. No violations were reported at these properties; however, due to their distance and location relative to the Subject Property, these drycleaner listings are considered RECs.

NY E-Designation Database

The NY E-Designation database is a listing of all properties that have either conduced environmental investigative sampling or remediation. The minimum search radius for the NY E-Designation database is Subject Property and sites within 1/8-mile of the Subject Property. The Subject Property was not listed in the database; however, eight sites were listed within the search radius. Due to the nature of the listings (tank testing, air quality testing, exhaust stack locations), these NY E-Designation database listings are not considered a REC.

4.1.3 Other Database Findings

Manufactured Gas Plant (MGP) Sites Database

The MGP Sites database is a proprietary database that includes records of manufactured coal gas plants compiled by EDR. The minimum search radius for the MGP Sites database is Subject Property and sites within 1-mile of the Subject Property. The Subject Property was not listed in

the MGP database; however, one site was listed within the search radius. Due to the distance from the Subject Property (more than 3,700 feet) this MGP Sites database listing is not considered a REC.

Historical Auto Stations Database

The Historical Auto Stations database is a proprietary database that includes records of historical auto stations compiled by EDR. The minimum search radius for the Historical Auto Stations database is Subject Property and sites within 1/4-mile of the Subject Property. The Subject Property was listed in the historical auto stations database under two addresses. The following table summarizes the location, names and years of operation for the identified historical auto stations:

Address	Auto Station Name	Years of Operation
4644 White Plains Road	TB&N Auto Body Inc.	2005-2010
	Farouks Auto Collision	2010-2012
700 East 241st Street	Caribbean Auto	2001-2003
	Hameed & Sons	2003-2005
	K A T Petroleum Inc.	2005-2006
	Caribbean Auto	2006-2008
	K A T Petroleum Inc.	2008-2012

In addition to the Subject Property, 23 sites were listed within the search radius. Six of the sites were listed within 350 feet of the Subject Property and topographically crossgradient to the Subject Property. Potential releases associated with the six listings (listed below and shown on Figure 2) may have adversely impacted soil, groundwater, and/or soil vapor at the Subject Property and are considered a REC:

- 730 East 241st Street
- 4640 Furman Avenue
- 4642 White Plaines Road
- 712 East 240th Street
- 750 East 241st Street
- 4580 White Plains Road

Historical Cleaners Database

The Historical Cleaners database is a proprietary database that includes records of historical cleaners compiled by EDR. The minimum search radius for the Historical Cleaners database is the Subject Property and sites within 1/4-mile of the Subject Property. The Subject Property was not listed in the historical cleaners database; however, nine sites were listed within the search radius. Three of the sites were listed within 250 feet and topographically crossgradient to the Subject Property. The potential for a release from the three listings (listed below and shown on Figure 2) may have adversely impacted soil, groundwater, and/or soil vapor at the Subject Property and are considered a REC:

- 4706 White Plains Road
- 4707 White Plains Road
- 4601 White Plains Road

4.1.4 Local Regulatory Agency Findings

FOIA Requests

FOIA requests were submitted to the following federal, state, and local agencies via written correspondence:

- New York City Department of Environmental Protection (NYCDEP);
- New York City Department of Health (NYCDOH);
- New York City Fire Department (FDNY);
- New York State Department of Health (NYSDOH);
- New York State Department of Environmental Conservation (NYSDEC); and
- USEPA, Region 2.

FOIA requests were sent on December 22 and December 29, 2014. The following table summarizes acknowledgement of receipts and responses.

Agency	Acknowledgement of Receipt Date	Response
NYCDOH	December 24, 2014	As of the date of this report, responses have not been received.
NYCDEP	December 24, 2014	
FDNY	Not received	
NYSDOH	December 29, 2014	
NYSDEC	December 31, 2014	
USEPA Region 2	December 29, 2014	

Should any future responses alter the conclusions provided within this report, we will issue modified conclusions as an addendum to this report. Copies of the FOIA requests and responses are included in Appendix E.

New York City Department of Buildings (NYCDOB)

Langan conducted a records search through the NYCDOB online query system on 5 December 2014. The Subject Property has Department of Finance Building classifications of O7-Office Buildings and G7-Garage/Gas Station. According to NYCDOB, actions reported for the Site included alterations, demolition, building notices, certificate of occupancies, electric sign applications, and plumbing. One outstanding environmental control board (ECB) violation (dated 11/8/1985) for failure to maintain building and three outstanding DOB violations (all dated 11/16/1990) related to electric signs are associated with former lot 62 of the Subject Property.

Certificate of Occupancy (C of O) documents were available for the Subject Property for the years of 1941 (former lot 1), 1950 & 1965 (former lot 59), and 1967 & 1974 (former lot 62). The 1941 C of O for former lot 1 indicates that the property was occupied by a one-story real estate office with a basement boiler room. The 1950 C of O for former lot 59 indicates that the property was occupied by a gasoline service station and the 1959 C of O for former lot 59 indicates that the property was occupied by an automotive service establishment and that a fire department gasoline tank installation was previously approved for the lot. The 1967 and 1974 C of Os for former lot 62 indicates that the property was occupied by an automotive service establishment. A copy of the NYCDOB findings is provided in Appendix G.

Zoning Department

According to the New York City Planning Commission Zoning Map 2a, the Subject Property is located in a M1-1, typically characterized by commercial uses and community facility uses. The review of the zoning map did not reveal RECs associated with the Subject Property. A copy of the zoning map is provided in Appendix H.

4.2 Physical Setting Sources

4.2.1 Topography

According to the United States Geological Survey (USGS) Bronx Quadrangle 7.5-minute Series Topographic Maps, the Subject Property sits at an elevation of approximately 156 feet above mean sea level (msl). The topography in the immediate area of the Subject Property is generally flat; however, overall topography generally slopes to the south. The approximate depth to groundwater is estimated at 10 to 12 feet bgs and, based on local topography, is expected to flow to the south-southwest.

4.2.2 Geology

Pleistocene glacial activity modified the landscapes and surficial features of the Bronx, Brooklyn, Queens, and the remainder of Long Island. The glaciation scoured uplands areas and deposited varying amounts of till (an unsorted mixture of sand, clay and boulders) across the lowlands and valleys. The area of the Bronx in which the site is located is underlain by glacial deposits known as ground moraine. The ground moraine is a widespread dense layer of till material that typically consists of clay, sand and boulders. Bedrock outcrops were not observed at the site. According to the USGS Bedrock and Engineering Geologic Maps of Bronx County and Parts of New York and Queens Counties, New York, dated 1992, the site is underlain by Middle Ordovician to Lower Cambrian-Ordovician Hartland Formation, which generally consists of muscovite-biotite-quartz schist with minor garnet. Bedrock outcrops were not observed at the Subject Property. Based on USGS reports, bedrock beneath the Subject Property is presumed to be at a depth of approximately 140 feet bgs.

4.2.3 Hydrology

Groundwater flow is typically topographically influenced, as shallow groundwater tends to originate in areas of topographic highs and flows toward areas of topographic lows, such as rivers, stream valleys, ponds, and wetlands. A broader, interconnected hydrogeologic network often governs groundwater flow at depth or in the bedrock aquifer. Groundwater depth and flow direction are also subject to hydrogeologic and anthropogenic variables such as precipitation, evaporation, extent of vegetation cover, and coverage by impervious surfaces.

Other factors influencing groundwater include depth to bedrock, the presence of artificial fill, and variability in local geology and groundwater sources or sinks.

The approximate depth to groundwater is estimated at 10 to 12 feet bgs. Groundwater at the Subject Property is expected to flow to the south-southwest. Potable water is provided to the Subject Property by the City of New York and is derived from surface impoundments in the Croton, Catskill, and Delaware watersheds.

4.3 Historical Use Information

Langan reviewed available historic resources (including aerial photographs, Sanborn and topographic maps, and city directories) dated 1887 to 2013. Findings of the reviews are presented below.

4.3.1 Aerial Photographs

Langan reviewed aerial photographs of the Subject Property and surrounding areas for the years 1924, 1941, 1946, 1951, 1954, 1962, 1966, 1975, 1985, 1989, 1994, 2006, 2009, and 2011. Beginning in 1924, the Subject Property appears undeveloped. Between 1924 and 1941, buildings had been erected along the western/northwestern edge of the Subject Property. By 1951, the east corner of the Subject Property (former lot 1) had been developed with a small building and the southeastern corner of the Subject Property (former lot 3) had been developed with a commercial structure. The surrounding areas are densely developed with a mix of commercial and residential structures. By 2006, the commercial building on former lot 3 has been demolished, and a paved lot has been left in its place. From 2006 to 2011, there were no noticeable changes in the aerial photographs of the Subject Property.

Langan's aerial photograph review revealed that the Subject Property was occupied by three structures that resemble the size and configuration of the present-day structures since as early as 1951. Langan's review of aerial photographs did not reveal RECs. Copies of aerial photographs are included in Appendix J.

4.3.2 Sanborn Fire Insurance Maps

Langan reviewed Sanborn Maps for the years 1887, 1892, 1897, 1908, 1918, 1935, 1950, 1977, 1981, 1983, 1986, 1988, 1991, 1992, 1993, 1995, 1996, 1998, and 2001-2007. Sanborn Maps constitute a database of prior site uses of real property for many cities and towns in the United States. Copies of the maps are provided in Appendix K.

Historical use of the Subject Property included the following:

Former Lot 1

- A two-story dwelling in 1908 (razed by 1918).
- A one-story office building from 1950 to 2007.

Former Lot 3

- A small one-story building used for "beverage storage" in 1950 (razed by 1977).
- A parking lot from 1995 to 2007.

Former Lot 6

- A two-story dwelling in from 1908 to 1935
- A two-story dwelling with two small garages from 1935 to 2007

Former Lot 59

- A one-story commercial building listed as a filling station in 1950.
- A one-story commercial building listed as auto repair from 1977 to 2007.

Former Lot 62

- One- to five-story dwellings from 1887 to 1897 (razed by 1908).
- A gasoline filling station and one-story building with four gas tanks from 1935 to 2007.

Former Lot 65

- Identified as Garden Place and undeveloped from 1887 to 2007.

Historical use of the Subject Property is a REC. Inadvertent releases of solvents, petroleum products, metals, polychlorinated biphenyls (PCBs) and/or other chemicals used during former and current operations may have adversely impacted soil, groundwater, building components and/or soil vapor at the Subject Property.

The following RECs were identified on surrounding properties:

- 740 East 241st Street: a former filling station with six gas tanks from 1935 to 1993;
- 750 East 241st Street: a former filling station with four gas tanks from 1935 to 1993 and an auto repair shop from 1950 to 1993.

- Block 5085, lot 13 and 100 (located approximately 150 feet southeast of the Subject Property): New York City Transit System Rail Yard from 1918 to 2007;
- 4619 Furman Avenue: an auto repair shop from 1977 to 2007; and
- 4609 Furman Avenue: an auto repair shop from 1995 to 2007.

Properties surrounding the Subject Property have historically been residential dwellings gasoline stations, auto repairs, office space, warehouses, parking lots, and storage buildings. RECs associated with historical uses of adjoining and surrounding properties are identified on Figure 2.

4.3.3 Historical USGS Topographic Quadrangles

Langan reviewed historical USGS Topographic Quadrangles obtained from EDR for information regarding past uses of the Subject Property. Quadrangle maps were available for the Subject Property for the years 1897, 1947, 1956, 1966, 1979, and 1995. Based on a review of the historic topographic maps, the Subject Property and surrounding areas were developed with an urban grid by 1897. Review of the historical topographic quadrangles did not reveal RECs associated with the Subject Property. Copies of the topographic maps are provided in Appendix L.

4.3.4 City Directories

The City Directory Abstract, obtained from EDR, is a review of available business directories, including city, cross-reference, and telephone directories, at approximately five-year intervals for the years spanning 1927 through 2013. Copies of the City Directory Abstracts are provided in Appendix M.

The following listings were provided for the Subject Property:

<u>700 East 241st Street</u>

- Wakefield Service Station Inc. in 1961;
- R & B Service Station Inc. in 1965;
- Ideal Service Station from 1971 to 1976;
- 2-4-1 Auto Sales Inc. in 1976;
- Tri-city Auto Service in 1983;
- W M E Z-4 Inc. in 1993;
- Caribbean Auto from 2005 to 2008;
- Hameed & Sons Petroleum Inc. in 2005; and,

- Kat Petroleum Inc in 2008.

714 East 241st Street

- Pfeifer Albert Inc. from 2000 to 2005;
- Minzner Edward S in 2008;

4641 Furman Avenue

- Patsy Leone, Anthony Leone, and Gaetano Guglielmucci in 1931;
- Marcel Mathus from 1956 to 1961;
- Donald Castrignano and Dominick Mannise in 1965;
- Gaetana Migliaccio from 1971 to 1993;
- Stephen Arroyo in 1971;
- R. Bolettieri in 1983; and,
- NCL in 2005.

4643 Furman Avenue

- Yonkers Scaffolding and Supply Company in 1971;

4644 White Plains Road

- Frank and Jim Self Service Station from 1956 to 1961;
- Paul Self Service Station in 1965; and,
- T B & N Auto Body Inc. in 2005;
- Farouks Auto Collision in 2013.

The following RECs were identified on surrounding properties:

- 4701 White Plains Road – Rieo Tailors Cleaners & Furriers in 1949;
- 4706 White Plains Road – Peerless Cleaning & Dyeing Corporation from 1956 to 2013;

Based on the review of the City Directory Abstract, use of the Subject Property as an automotive repair shop and as a gas station is considered a REC, as leaks or spills of petroleum products may have impacted soil, groundwater, and/or soil vapor at the Subject Property. In addition, historical uses of the surrounding properties as dry cleaners constitutes a REC.

4.3.5 Title Records, Environmental Liens, and Use Limitations

A title and lien search was requested from the User as part of this ESA; however, as of the date of this Phase I, title and lien search reports have not been provided. Mr. Seplowitz indicated that he is not aware of any environmental liens filed or recorded against the Subject Property.

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

The site reconnaissance was conducted in a systematic manner focusing on the spatial extent of the Subject Property and then progressing to the adjacent and surrounding properties. The assessment of the adjacent and surrounding properties was limited to identifying, if possible, any indications of past or current use that may involve the use, storage, disposal, or generation of hazardous substances or petroleum products; noting the general type of current use; the general topography of the surrounding area; and providing a general description of adjoining or adjacent structures.

5.1.1 Date and Time of Inspections

The site reconnaissance was completed on 22 December 2014 at 8:00 AM by Justin Hall, of Langan. The weather at the time of the inspection was sunny and approximately 35° F.

5.1.2 General Site Setting and Reconnaissance Observations

The Subject Property (also identified as Tax Block 5087; Lot 1) is comprised of an approximate 28,718-square-foot irregularly shaped lot and includes approximately 100 feet of frontage along White Plains Road, 185 feet of frontage along East 241st Street, and 135 feet of frontage along Furman Avenue. The Subject Property is comprised of the following former addresses and lots:

- 714 East 241st Street (former lot 1) – Developed with a vacant one-story office building with a basement.
- 4643 Furman Avenue (former lot 3) – Developed with an asphalt-paved parking lot.
- 4641 Furman Avenue (former lot 6) – Undeveloped dirt and grass lot.
- 4644 White Plains Road (former lot 59) – Developed with a vacant one-story former gasoline station and auto body shop (since circa 1950)
- 700 East 241st Street (former lot 62) – Developed with a vacant one-story former gasoline station and auto body shop (since circa 1935)

- 704 East 241st Street (former lot 65) – Undeveloped dirt and grass lot.

The Subject property contains three onsite buildings including an approximate 1,086-square foot one-story office building with basement (former lot 1), an approximate 3,375-square foot one-story former auto body shop building (former lot 59), and an approximate 1,500-square foot one-story former auto body shop building (former lot 62). The Subject Property also contains asphalt- and concrete-paved exterior driving/parking areas and sparsely vegetated undeveloped area. The Subject Property is bordered to the northwest by White Plains Road and an overhead Metropolitan Transportation Authority (MTA) rail line, to the northeast by East 241 Street, to the southeast by Furman Avenue, and to the southwest by residential and commercial properties. The Subject Property is currently vacant and the topography of the Subject Property generally slopes south. The site reconnaissance photographs are provided in Appendix A.

Former Lot 1 (714 East 241st Street)

Former lot 1 is an approximate 2,191 square-foot rectangular lot and contains a one-story concrete office building and perimeter landscaping. The lot is currently vacant and was observed to be connected to public water, sewers, and electricity. The vacant office building was constructed of a concrete floor and cinder block walled basement with brick walls on the first floor and a wooden ceiling. The building was most recently heated via an oil-fired boiler that was identified in the basement. A 275-gallon heating oil AST was observed in the basement adjacent to the boiler. The AST was observed to be in good condition with no staining or visual impacts to the floor below the AST. A brick-lined floor sump with a dirt base was observed below the AST in the basement. Although no visual staining or impacts were observed, the potential for a release from the AST exists, therefore; the AST is identified as a REC. Because the floor sump provides a conduit for spilled heating oil to impact subsurface conditions, the heating oil AST and floor sump constitutes a REC.

Former Lot 3 (4643 Furman Avenue)

Former lot 3 is an approximately 3,312 square feet and is comprised on an asphalt-paved parking area with a perimeter chain-link fence. The asphalt parking area was observed to be in good condition and contained no sumps or storm drains.

Former Lot 6 (4641 Furman Avenue)

Former lot 6 is approximately 3,280 square feet and is comprised of an undeveloped dirt and grass lot with a perimeter chain-link fence. The lot is currently used as for parking by the nearby residences. The northern edge of the lot was observed to contain trash, two empty 55-gallon drums, used tires, an old propane heater, automobile parts, empty gas tanks, scaffolding, and

other miscellaneous debris. The empty 55-gallon drums were labeled but not legible due to age and weathering, staining and stressed vegetation was observed in the vicinity of the 55-gallon drums between former lots 65 and 6. The staining and stressed vegetation observed in the area of the empty automobile gas tanks, miscellaneous car parts, empty unlabeled 55-gallon drums are considered a REC as it represents the a release to surficial soils.

Former Lot 65 (704 East 241st Street)

Former lot 65 is approximately 10,109-square feet and is comprised of an undeveloped dirt and grass lot to the south, and an asphalt paved parking area to the north. The northern portion of the lot is currently used as a parking and dumping area for the former fueling facility at 700 East 241 Street (former lot 62). The northern asphalt paved portion of the lot was observed to be in poor condition with staining and cracks throughout the asphalt. The northern portion of the lot consisting of undeveloped dirt and grass and used as a dumping area contained a large pile of trash, automobile gas tanks, mattresses, wood, scrap metal, and miscellaneous debris. Staining and stressed vegetation was observed in the vicinity of the dumping area. The southern portion of the lot contained a small pile of trash and debris containing empty 5-gallon buckets labeled as previously containing roofing tar. The southern portion of the lot also contained a vacant trailer home with miscellaneous trash and overgrown vegetation. The undeveloped dirt and grass dumping area located on the northern portion of the lot was observed to have impacts to surficial soils due to the staining and stressed vegetation and is therefore considered a REC.

Former Lot 62 (700 East 241st Street)

Former lot 62 is approximately 5,120-square feet and contains a single story former auto repair facility and gas filling station, asphalt parking area, one 4,000-gallon gasoline UST (temporarily closed iniplace), one 2,000-gallon gasoline UST (temporarily closed in-place), one 550-gallon UST (closed in-place), and one 550-gallon UST (closed-removed). The lot is currently vacant and was observed to be connected to public water, sewers, and electricity. The building was not observed to be connected to a heating source. The auto repair and fueling facility building was constructed of a concrete floor, cinder block walls, and a wooden ceiling. The building contains a bathroom, office area, and a two bay garage. The concrete floor of the former auto repair garage was in poor condition with cracking and pitting throughout andsignificant staining was also observed throughout the concrete floor. A brick lined sump was observed in the office area of the building; however, no staining or evidence of impacts were identified in or around the sump. The exterior of the lot was in poor condition. Cracking, staining, and trash debris was observed throughout the asphalt and concrete parking area. A 55-gallon drum was observed on the northern portion of the lot, the drum was filled with an unknown material, was not labeled,

and staining was observed around the base of the drum. The former use of the site and the known petroleum bulk storage on former lot 62 are considered RECs.

Former Lot 59 (4644 White Plains Road)

Former lot 59 is approximately 4,706-square feet and contains a single story auto repair facility and asphalt parking area. The lot is currently vacant and was observed to be connected to public water, sewers, and electricity, while the onsite building was observed to be heated by an overhead oil fired heater. A 275-gallon heating oil AST was observed in the rear of the onsite building to the south. The rear of the building was used as a dumping area and contained a large pile of trash, automobile gas tanks, miscellaneous car parts, mattresses, wood, scrap metal, empty 5-gallon pails of roofing tar, and miscellaneous debris. Staining and stressed vegetation was observed in the vicinity of the dumping area. A storm sewer sump was observed in the asphalt parking area alongside White Plains Road, the sump was brick lined and no staining or evidence of releases in the area was observed. The onsite building contained a two bay garage, an office area, a bathroom, and a storage closet. The concrete floor was observed to be in poor condition with cracking and pitting throughout. A brick lined sump was observed in the center of the two bay garage, no staining or evidence of impacts were identified in or around the sump. A storage closet located in the southwestern corner of the building stored paint used for the repainting of automobiles. The former site use and the dumping area which was observed to have impacts to surficial soils due to staining and stressed vegetation, are considered a REC.

Pits, Ponds, Lagoons

Pits, ponds, and/or lagoons were not observed.

Pools of Liquid

With the exception of several small puddles of accumulated rainwater, no pools of liquid were observed.

Storm Drains, Wells, and Cisterns

Storm drains, wells, or cisterns were no observed.

Polychlorinated Biphenyl (PCB) Transformers and Suspect Equipment

Except for fluorescent lights, transformers or suspect PCB-containing equipment were not observed. Fluorescent light ballasts manufactured prior to 1979 may contain PCBs.

Storage Containers and Drums

The following storage containers and drums were identified:

- One full unlabeled 55-gallon drum located on the western exterior of the building at former lot 62;
- Three empty unlabeled 55-gallon drums located on the northwestern corner of former lot 6;
- Four empty 5-gallon pails of roofing tar located on the southern portion of former lot 65; and,
- Four empty automobile gasoline tanks located on the northern portion of former lot 65 and behind the building at former lot 59.

Staining and stressed vegetation were observed within the vicinity of the drums and automobile tanks. Also, discoloration and staining were apparent throughout the interior of the auto repair shop and fueling facility at 700 East 241st Street, suggesting incidental releases of petroleum products.

Air Emissions or Wastewater Discharges

Evidence of air or wastewater discharges were not observed.

Sumps

As discussed above, four sumps were observed at the Subject Property; however, no evidence of staining or discoloration was observed.

USTs or ASTs

The following evidence of USTs and ASTs were identified at the Subject Property:

- One 4,000-gallon gasoline UST (temporarily closed in-place), one 2,000-gallon gasoline UST (temporarily closed in-place), one 550-gallon gasoline UST (closed in-place), and one 550-gallon gasoline UST (closed-removed) had been present on former lot 62 since at least 1935.
- One 275-gallon heating oil AST was observed in the basement of former lot 1. One 250-gallon heating oil AST was observed behind the auto repair building at former lot 59.

During site reconnaissance two concrete pads, fill ports, and tank exhausts were observed on former lot 62 and are consistent with the 4,000-gallon gasoline UST and 2,000-gallon gasoline

UST reported on the Subject Property. One 275-gallon AST was observed in the basement of former lot 1. The AST was observed to be in good condition with no staining or visual impacts to the floor below the AST; however, a brick-lined floor sump with a dirt base was observed below the AST. One 250-gallon AST was observed behind the auto repair building at former lot 59. The one 4,000-gallon gasoline UST and one 2,000-gallon gasoline UST located on former lot 62 and the one 275-gallon heating oil AST located of former lot 1 were temporarily closed in-place on 22 December 2014. Based on the historic usage and presumed age of the tanks, the known and suspect historical petroleum storage tanks are a REC.

Monitoring Wells or Remedial Activities

Monitoring wells were not observed at the Subject Property.

Stained or Discolored Soils

Stained and discolored soil was observed at the undeveloped grass and dirt dumping area of former lots 6, 59, 62, and 65 located on the northern portion of the Subject Property suggesting incidental releases of petroleum products to surficial soils. Based on the evidence of petroleum product releases to surficial soils, the stained and discolored soils at the Subject Property are considered a REC.

Leachate or Seeps

Leachate or seeps were not observed.

Adjoining and Surrounding Property Uses

The adjoining properties include: White Plains Road and an overhead MTA train station to the northwest, East 241st Street to the Northeast, Furman Avenue to the east, and mixed residential and commercial properties to the south, southeast, and southwest.

Site Reconnaissance Conclusions

Based on observations during the site reconnaissance, the following RECs were identified:

- During site reconnaissance, concrete pads, fill ports, and tank exhausts were observed on former lot 62 and are consistent with the 4,000-gallon gasoline UST and 2,000-gallon gasoline UST reported on the Subject Property. One 275-gallon AST was observed in the basement of former lot 1. The AST was observed to be in good condition with no staining or visual impacts to the floor below the AST; however, a brick-lined floor sump

with a dirt base was observed below the AST. One 250-gallon AST was observed behind the auto repair building at former lot 59. Based on the historic usage and presumed age of the tanks, the known and suspect historical petroleum storage tanks are a REC.

- Langan observed staining, discoloration, and stressed vegetation in the grass and dirt dumping areas of former lots 6, 59, 62, and 65 suggesting incidental releases of petroleum products to surficial soils. Two empty 55-gallon drums in the dumping area of former lot 6, and one 55-gallon drum filled with an unknown material with staining around the base at former lot 62 were observed. Based on the evidence of petroleum product releases to surficial soils, the stained and discolored soils at the Subject Property are considered a REC.

6.0 INTERVIEWS

6.1 SUBJECT PROPERTY OWNER/OCCUPANT

Mr. Seplowitz, a representative for the Subject Property owner, was interviewed as part of the Phase I ESA. The information obtained during the interview is provided throughout the different sections of this report.

6.2 OWNERS/TENANTS OF ADJACENT PROPERTIES

Owners/tenants of adjacent properties were not interviewed as part of this Phase I ESA.

7.0 ADDITIONAL SERVICES

7.1 Radon

Radon is a colorless, odorless radioactive gas that results from the natural breakdown of uranium minerals in soil, rock, and water, which subsequently enters the atmosphere. It can concentrate in buildings, entering through cracks and other penetrations of a building foundation. Some areas are more likely to have elevated concentrations of radon than others, reflecting subsurface lithologic conditions.

The USEPA's "Map of Radon Zones for New York State" indicates that Bronx is located in a Zone 3 radon risk area, which is associated with a low radon risk potential. Zone 3 risk areas are those where the predicted average indoor screening level is less than 2.0 picocuries per liter (pCi/L). According to the NYSDOH, a total of 31 radon tests have been conducted in Bronx County with results indicating that 4% of living areas and 58% of basements have radon concentrations above 4 pCi/L. Based on this data, there is a potential for radon to accumulate in

buildings; radon represents an environmental concern. A USEPA radon map is provided as Appendix N.

7.2 Asbestos-Containing Material, Lead-Based Paint, and PCBs

A formal survey to identify asbestos containing materials (ACM), lead-based paint (LBP), and PCBs in building materials was not conducted as part of this Phase I ESA. Based on the age of the building, ACM, LBP, and PCB-containing materials are likely present in the Subject Property building materials. Chipping paint was observed on some of the walls, and suspect PCB-containing materials (i.e., window caulking and fluorescent light ballasts) were observed throughout the building.

8.0 DEVIATIONS AND DATA GAPS

8.1 Deviations

Langan has performed a Phase I ESA of the Subject Property utilizing a standard of good commercial and customary practice that is consistent with the ASTM E1527-13 and the 40 Code of Federal Regulations (CFR) Part 312 Standards and Practices for AAI. Significant deviations were not made to the above referenced standards.

8.2 Data Gaps

In order to address data gaps, additional sources of information may be consulted. According to ASTM E1527-13, Section 8.3.2.3, "historical research is complete when either: (1) the objectives in 8.3.1 through 8.3.2.2 are achieved; or (2) data failure is encountered. Data failure occurs when all standard historical sources that are reasonably ascertainable and likely to be useful have been reviewed and yet the objectives have not been met. If data failure is encountered, the report shall document the failure and, if any of the standard historical sources were excluded, give the reasons for the exclusion."

This Phase I ESA conforms to ASTM with the following deviations noted:

- Interviews of former business operators were not conducted; and,
- A title and lien serach for the Subject Property were not provided to Langan by the User.

Sufficient information has been provided from other data sources to render conclusions regarding the presence of RECs at the Subject Property. As such, these data gaps are not expected to impact the overall conclusions of the Phase I ESA. Should additional information

provided at a later date alter the conclusions of this Phase I ESA, we will issue an addendum to this report.

9.0 FINDINGS AND OPINIONS

This Phase I ESA was conducted in accordance with the ASTM Practice E1527-13 (Standard Practice for ESA: Phase I ESA Process) and the USEPA AAI Rule. The objective of this Phase I ESA was to identify the presence or likely presence, use, or release on the Subject Property of hazardous substances or petroleum products as defined in ASTM E1527-13 as a REC.

Recognized Environmental Conditions

The Phase I ESA identified the following RECs for the Subject Property:

REC 1 – Historical Site Use

Prior to becoming vacant in December 2014, portions of the Subject Property were extensively used for auto repair and gasoline fueling purposes since at least 1935. Evidence of former auto repair equipment (empty automobile gas tanks, miscellaneous car parts, unlabeled 55-gallon drums, etc.) was apparent throughout the interior and exterior of the Subject Property. Inadvertent releases of solvents, petroleum products, metals, PCBs and/or other chemicals used during historical operations may have adversely impacted soil, groundwater, building components and/or soil vapor. Discoloration, staining, and stressed vegetation were also apparent throughout the interior and exteriors of the Subject Property (primarily former lots 6, 59, 62, and 65), suggesting incidental releases of petroleum products during auto maintenance. The concrete slabs of the buildings were compromised in several areas. Because fractures in the slab provide a conduit for spilled motor oils and/or petroleum products to impact subsurface conditions, former use of the Subject Property constitutes a REC.

REC 2 – On-Site Petroleum Bulk Storage

The following evidence of historical petroleum bulk storage was identified:

- One 4,000-gallon gasoline UST (temporarily closed in-place), one 2,000-gallon gasoline UST (temporarily closed in-place), one 550-gallon gasoline UST (closed in-place), and one 550-gallon gasoline UST (closed-removed) had been present on former lot 62 since at least 1935.
- According to historical Sanborn Fire Insurance Maps and NYCDOB records, a gasoline service station historically occupied former lot 59. Additionally, a 1965 C of O indicates that a fire department gasoline tank installation approval for former lot 59. Releases from the suspect tanks may have impacted soil, groundwater, and soil vapor.

- During the site reconnaissance, a 275-gallon heating oil AST was observed in the basement of former lot 1. The AST was observed to be in good condition with no staining or visual impacts to the floor below the AST; however, a brick-lined floor sump with a dirt base was observed below the AST. Because the floor sump provides a conduit for spilled heating oil to impact subsurface conditions, the heating oil AST and floor sump constitutes a REC.

The 4,000-gallon gasoline UST and 2,000-gallon gasoline UST located on former lot 62 and the 275-gallon heating oil AST located of former lot 1 were temporarily closed in-place on 22 December 2014. Based on the historic usage and presumed age of the tanks, the known and suspect historical petroleum storage tanks are a REC.

REC 3 – NYSDEC Spill No. 1214956

On 25 January 2013, during a Phase II subsurface investigation, the NYSDEC issued Spill Number 1214956 to former lot 62 when elevated concentrations of petroleum VOCs were identified in soil and groundwater in the vicinity of the gasoline USTs located in former lot 62. This spill case is currently open.

REC 4 – Current and Historical Use of Surrounding Properties

Current and historical uses of surrounding properties include:

- Four drycleaners (4811 White Plains Road, 4701 White Plains Road, 4706 White Plains Road, and 4707 White Plains) with years of operation ranging from 1949 to present. Each of the four drycleaners are located upgradient of the Subject Property;
- Nine auto repair facilities (730 East 241st Street, 740 East 241st Street, 750 East 241st Street, 712 East 240th Street, 4580 White Plains Road, 4642 White Plains Road, 4609 Furman Avenue, 4619 Furman Avenue, and 4640 Furman Avenue) with years of operation ranging from 1935 to 2007. The auto repair facilities are located cross-gradient and downgradient of the Subject Property ;
- Two gasoline filling stations (740 East 241st Street and 750 East 21st Street) with years of operation ranging from 1935 to 1993. The former filling stations are located crossgradient of the Subject Property;

- New York City Transit System Rail Yard (located approximately 150 feet southeast and crossgradient of the Subject Property) with years of operation ranging from 1918 to 2007.

Potential petroleum and solvent releases associated with the historical and current surrounding property uses may have adversely impacted groundwater and/or soil vapor at the Subject Property and is considered a REC.

Historic RECs (HRECs) or Controlled RECs (CRECs) were not identified on the Subject Property or the immediately adjacent properties.

Business Environmental Risk

A Business Environmental Risk (BER) is defined by ASTM 1527-13 as a risk, which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice. The following BER was identified at the Subject Property:

BER 1 – Historic Urban Fill Material

According to the January 2013 Phase II subsurface investigation, historic fill material consisting of brown silty-sand with brick was encountered between 1 and 3 feet below ground surface (bgs) across the subject property. The presence of impacted fill will require implementation of soil handling and management procedures during site redevelopment to address excavation, re-use, handling, and offsite disposal of this material.

Additional Non- ASTM Issues

The following Non-ASTM environmental issues were identified at the Subject Property:

Asbestos, Lead, and Polychlorinated Biphenyls

A formal survey to identify asbestos containing materials (ACM), lead-based paint (LBP), and PCBs in building materials was not conducted as part of this Phase I ESA. Based on the age of the building, ACM, LBP, and PCB-containing materials are likely present.

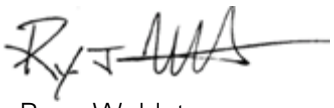
Radon

According to the NYSDOH, a total of 31 radon tests have been conducted in Bronx County with results indicating that 4% of living areas and 58% of basements have radon concentrations above 4 picocuries per liter (pCi/L). Based on this data, there is a potential for radon to accumulate in buildings; radon represents an environmental concern.

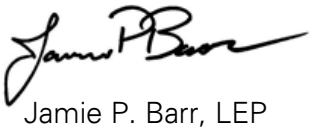
11.0 STATEMENT OF QUALIFICATIONS AND SIGNATURES

Langan declares that, to the best of its professional knowledge and belief, the personnel who performed this Phase I ESA meet the definition of Environmental Professional as defined in Subsection 312 10 of 40 CFR 312 and that they have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. They have developed and performed the AAIs in conformance with the standards and practices set forth in 40 CFR Part 312. Resumes outlining the qualifications of the Environmental Professionals who performed this Phase I ESA are provided in Appendix P.

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.



Ryan Wohlstrom
Project Engineer



Jamie P. Barr, LEP
Senior Associate/Vice President

LANGAN

Technical Excellence
Practical Experience
Client Responsiveness

3 February 2015

Jonathan Seplowitz
Enclave on 241 Street LLC
2975 Westchester Avenue
Purchase, New York 10577

Re: Limited Phase II Environmental Site Investigation Report
714 East 241st Street
Bronx, New York
Langan Project No.: 140115301

Dear Mr. Seplowitz,

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. (Langan) prepared this report to document the results of the Limited Phase II Environmental Site Investigation (ESI) performed on behalf of Enclave on 241 Street LLC (The "Owner") for the property located at 714 East 241st Street in the Wakefield section of the Bronx, New York ("Subject Property"). The Subject Property (also identified as Tax Block 5087; Lots 1, 3, 6, 59, 62, and p/o 65) is comprised of an approximate 24,060-square-foot irregularly shaped lot and includes approximately 100 feet of frontage along White Plains Road, 185 feet of frontage along East 241st Street, and 135 feet of frontage along Furman Avenue. This limited investigation included a geophysical survey and soil and groundwater sampling in the areas not previously investigated. The Subject Property is subject to New York State Department of Environmental Conservation (NYSDEC) review under the Spills Program (Spill No. 12-14956). This report describes the sampling methodology, field observations, and analytical results of the subsurface investigation.

PREVIOUS ENVIRONMENTAL INVESTIGATON

A Phase II Subsurface Investigation was implemented on the Subject Property on 15 January 2013. The investigation included completion of a geophysical survey, installation of nine soil borings (B1 through B9) and six temporary groundwater monitoring wells (GW1, GW3 through GW6, and GW9), and collection of ten grab soil samples and six groundwater samples. The analytical results of the January 2013 Phase II investigation are shown on Figures 3 and 4. The findings of this investigation are summarized below:

- The geophysical survey identified the two functioning USTs in the northern portion of the Site as well as a potential UST (suspected to be closed-in-place) located in the northwest portion of the Site.
- Soil Impacts: The following constituents were detected in soil at concentrations that exceed their respective Unrestricted Use SCOs:
    - Nine VOCs, including acetone, benzene, ethylbenzene, methyl t-butyl ethere (MTBE), n-propylbenzene, o-xylene/total xylene, toluene, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene.
    - One SVOC, naphthalene.
- Groundwater Impacts: The following constituents were detected in groundwater at concentrations exceeding TOGS AWQS.
    - Fifteen VOCs, including benzene, ethylbenzene, isopropylbenzene, m&p-xylenes, MTBE, naphthalene, n-butylbenzene, n-propylbenzene, o-xylene, p-isopropyltoluene, sec-butylbenzene, toluene, 1,2,4-trimethylbenzene, and 1,2-dibromoethane.

FIELD INVESTIGATION

Langan implemented the field investigation on 23 January 2015. The field investigation included completion of a geophysical survey, six soil borings, installation of four temporary groundwater monitoring wells, collection of 12 grab soil samples (including one duplicate sample), and collection of five groundwater samples (including one duplicate sample). Soil and groundwater sampling procedures and results are discussed below. A summary of the environmental samples laboratory analytical data is provided in Tables 1 through 3 and all analytical results are shown on Figures 3 and 4. All samples were analyzed by a NYSDOH Environmental Laboratory Approval Program (ELAP)-certified laboratory.

New York City Transit Authority (NYCTA) Approval

The active NYCTA #2 rail corridor and station platform are allocated along the northwest property line. Per the requirements of NYCTA, Langan prepared a letter of No Impact request to NYCTA, which included plans showing the as-built conditions of the rail structures surrounding the Subject Property for the proposed subsurface investigation. NYCTA granted the Letter of No Impact on 13 January 2015.

Geophysical Survey

The geophysical survey was completed by NOVA Geophysical Services (NOVA) of Douglaston, New York using electromagnetic surveying equipment and ground penetrating radar (GPR). The

purpose of the geophysical survey was to complete utility markouts at the proposed test boring locations as well as to attempt to locate subsurface structures identified in previous reports (USTs and oil/water separator). The geophysical report and associated images and map are provided as Attachment B.

Soil Investigation

Six soil borings (SB-1 through SB-6) were installed by Aquifer Drilling and Testing, Inc. (ADT) of Mineola, New York under the supervision of a Langan field engineer on 23 January 2015. The soil boring locations are presented on Figure 2. The borings were completed using a track-mounted Geoprobe® 6610DT direct-push drill rig equipped with a dual-tube sampling system to prevent the collapse of sidewall material as the borings are advanced to collect a core representative of the depth interval advanced. Soil samples were collected throughout each environmental boring into 4-foot macrocore sample barrels with dedicated acetate liners. Soil samples retrieved from each boring were visually classified for soil type, grain size and texture. Each soil sample was screened for total organic vapors using a photoionization detector (PID) equipped with a 10.6 electron volt (eV) lamp. Soil samples were also evaluated for visual and olfactory indications of environmental impact. Soil boring logs are provided as Attachment C.

Two discrete (grab) soil samples were collected at borings SB-1 through SB-5 for laboratory analysis: one from within the historic fill material layer and the second from either areas exhibiting visual or olfactory indications of environmental impacts or from the groundwater interface. One discrete (grab) soil sample was collected at boring SB-6 from the historic fill. Soil borings SB-1 through SB-3 were terminated at 16 feet below grade surface (bgs); soil borings SB-4 and SB-5 were terminated at 20 feet bgs; and soil boring SB-6 was terminated at 4 feet bgs. Soil samples were submitted to York Analytical Laboratories under standard chain-of-custody protocol for analysis of Part 375 volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), metals, polychlorinated biphenyls (PCBs), and pesticides. A summary of the soil samples collected for laboratory analysis is presented in Table 1. A summary of soil analytical data is presented in Table 2. Analytical reports and chain-of-custody documentation are provided in Attachment F and laboratory certification is provided in Attachment G.

Groundwater Investigation

Four of the six soil borings (SB-1 through SB-4) were each converted into temporary groundwater monitoring wells. The temporary wells were constructed to straddle the observed groundwater table, ranging from 9 to 16-feet bgs. The wells were constructed with 1-inch

diameter, threaded, flush-joint, polyvinyl chloride (PVC) casing and 10-feet of 0.01-inch slotted screens. The monitoring wells were developed with a submersible pump and dedicated polyethylene tubing until the purged water was visually clear. Well construction logs are provided in Attachment D.

One groundwater sample was collected from each new monitoring well in accordance with NYSDEC DER-10 and USEPA's *Low Flow Purging and Sampling Procedures for the Collection of Groundwater Samples from Monitoring Wells*. Before a groundwater sample was collected, the well was gauged and then continuously purged until groundwater quality parameters (pH, conductivity, turbidity, dissolved oxygen, temperature, and oxidation-reduction potential) stabilized, to the extent practicable, in accordance with the USEPA Low Flow Procedures. Stabilization is achieved when three consecutive readings of all parameters are within the limits specified in the USEPA Low Flow Procedures. A multi-parameter water quality system (Horiba U-52) was used to monitor the groundwater quality parameters during sampling. Well sampling logs are provided in Attachment E. Groundwater samples were submitted to York Laboratories for analysis of Part 375 List of VOC, SVOCs, metals, and PCBs. A summary of the groundwater samples collected for laboratory analysis is presented in Table 1. A summary of groundwater analytical data is presented in Table 3. Analytical reports and chain-of-custody documentation are provided in Attachment F and laboratory certification is provided in Attachment G.

OBSERVATIONS AND RESULTS

Geophysical Survey

The geophysical survey identified a large subsurface anomaly indicative of an underground storage tank (UST) on the northwestern edge of the Subject Property along the sidewalk of White Plains Road (on former lot 59). The anomaly measured approximately 20 feet in length and 8 feet in width and was observed at approximately 4 feet bgs. The location of the anomaly is shown in Figure 2. The geophysical survey also confirmed the locations of site utilities as well as the three previously known USTs located on the northern portion of the Subject Property.

Subsurface Observations

The stratigraphy underlying the Subject Property consists of a surficial layer of historic fill material overlying native fine- to- medium-grained sandy soil with silt and clay lenses. The surficial historic fill extended from ground surface to about 4 feet bgs and is composed of varying amounts of sand and gravel, and fragments of brick, glass, wood, and coal ash. Bedrock

was not encountered during this investigation; however, based on USGS reports, bedrock is presumed to be at a depth of approximately 140 feet bgs.

One of the seven soil borings (SB-3) was installed next to suspected UST that was discovered during the geophysical survey (see Figure 2). Petroleum-like odors and PID readings (up to 1,095 parts per million [ppm]) were observed in the soil boring at depths of approximately 10 to 16 feet bgs. To a lesser degree, olfactory evidence of petroleum-like odors was also observed in borings SB-1 through SB-3 (with PID reading up to 17.8 ppm). Soil boring logs are provided as Attachment C.

The approximate depth to groundwater is estimated at 9 to 11 feet bgs and, based on local topography, is expected to flow to the south-southwest. Potable water is provided to the Subject Property by the City of New York and is derived from surface impoundments in the Croton, Catskill, and Delaware watersheds. No free product was identified during this Limited Phase II ESI; however, a petroleum-like odor was detected during groundwater purging and sampling activities at SB-3 (MW).

Soil Sample Analytical Results

Eleven soil samples were submitted for laboratory analysis including one duplicate sample. Analytical results were compared to Part 375 Unrestricted and Restricted Use Residential-Residential Site Cleanup Objectives (SCOs). The soil analytical results are presented in Table 2 and Figure 3.

VOCs

Four VOCs, including 1,4-dioxane, acetone, methylene chloride, and total xylenes, were detected above their Unrestricted Use SCOs in samples collected from borings SB-1 through SB-4 at depths ranging from 2.5–13 feet bgs. No VOCs were detected above Restricted-Residential SCOs in soil samples collected.

SVOCs

Nine SVOCs, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, dibenzofuran, indeno(1,2,3-cd)pyrene, and naphthalene were detected at concentrations above their Unrestricted Use SCOs from borings SB-1, SB-4, and SB-5 at depths ranging from 1.5–9 feet bgs. Seven of the nine SVOCs were also detected above Restricted-Residential SCOs in borings SB-1, SB-4, and SB-5.

Pesticides

Pesticides, including 4,4'-DDE, 4,4'-DDT, and alpha-chlordane, were detected at concentrations above their Unrestricted Use SCOs in boring SB-1, SB-5, and SB-6 at depths ranging from 0–3 feet bgs. No pesticides were detected above Restricted-Residential SCOs in soil samples collected.

PCBs

No PCBs were detected above SCOs in soil samples collected.

Metals

Five metals, including copper, lead, mercury, selenium, and zinc were detected at concentrations exceeding the Unrestricted Use SCOs in each of the six soil borings. Lead was also detected above its Restricted-Residential SCO in boring SB-1 at a depth of 2.5—4.5 feet bgs

Groundwater Analytical Results

Five groundwater samples (including one duplicate sample) were submitted for laboratory analysis. The groundwater analytical results were compared to the Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values (SGVs) for Class GA waters. The groundwater analytical results are presented in Table 2 and Figure 4.

VOCs

Ten VOCs, including 1,3,5-trimethylbenzene, benzene, ethyl benzene, isopropylbenzene, n-butylbenzene, n-propylbenzene, p- & m- xylenes, sec-butylbenzene, toluene, and total xylenes were detected at concentrations above their TOGS SGVs in the sample collected from SB-3(MW). Total xylene was also detected at concentrations above its TOGS SGV in the samples collected from SB-1(MW) and SB-2(MW). No other VOCs were detected above TOGS SGVs in groundwater samples collected.

SVOCs

Seven SVOCs, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, indeno(1,2,3-cd)pyrene, and naphthalene were detected at concentrations above their TOGS SGVs in the sample collected from SB-4(MW). Naphthalene

was also detected at a concentration above its TOGS SGV in the sample collected from SB-3(MW). No other SVOCs were detected above TOGS SGVs in groundwater samples collected.

PCBs

No PCBs were detected above TOGS SGVs in groundwater samples collected.

Metals

Four metals including magnesium, manganese, selenium, and sodium were detected at concentrations above their TOGS SGVs in the samples collected from SB-1(MW), SB-3(MW), and SB-4(MW). No other metals were detected above TOGS SGVs in groundwater samples collected.

CONCLUSIONS

Based on the observations and results of this investigation, we conclude the following:

- A layer of historic fill composed of varying amounts of sand and gravel, and fragments of brick, glass, wood, and coal ash was identified throughout the Subject Property with thicknesses ranging from approximately 3 to 4 feet. This fill layer contained SCO exceedances (SVOCs, metals, and pesticides) throughout the Subject Property.
- The geophysical survey identified a large subsurface anomaly indicative of an UST on the northwestern edge of the Subject Property along the sidewalk of White Plains Road. The previously unidentified anomaly measured approximately 20 feet in length and 8 feet in width and was observed at approximately 4 feet bgs. The location of the anomaly is shown in Figure 2. The geophysical survey also confirmed the locations of site utilities as well as the three previously known USTs located on the northern portion of the Subject Property.
- One of the seven soil borings (SB-3) was installed next to the suspected UST along White Plains Road that was discovered during the geophysical survey (see Figure 2). Petroleum-like odors and PID readings (up to 1,095 ppm) were observed in the soil boring at depths of approximately 10 to 16 feet bgs. Groundwater analytical sampling results from this location confirmed the presence of a petroleum contamination. To a lesser degree, olfactory evidence of petroleum-like odors were also observed in borings SB-1 through SB-3 (with PID reading up to 17.8 ppm).
- The approximate depth to groundwater is estimated at 9 to 11 feet bgs and, based on local topography, is expected to flow to the south-southwest. No free product was identified during this Limited Phase II ESI; however, a petroleum-like odor was detected

during groundwater purging and sampling activities at SB-3 (MW) and groundwater analytical sampling results from this location, confirmed the presence of a petroleum contamination.

LIMITATIONS

This Limited Phase II ESI report was prepared expressly for the Enclave on 241 Street LLC for the property located at 714 East 241st Street, in the Bronx, New York and for the objectives defined herein. Langan cannot assume responsibility for the use of this report for any property other than the specific site addressed in this report, or by any third party without specific written authorization from Langan.

The conclusions and opinions provided in this report are based on subsurface conditions ascertained from the analysis of a limited number of samples and from environmental reports prepared by other professionals. Actual conditions encountered may differ substantially from those presented herein and should be brought to our attention whereby we may determine how such changes may affect our conclusions.

Should you have any questions regarding the findings presented in this report, please feel free to call us at 203-784-3069.

Sincerely,

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.

Ryan Wohlstrom
Project Engineer

Jamie P. Barr, L.E.P.
Senior Associate/Vice President

Enclosures: Table 1 – Sample Summary
Table 2 – Soil Sample Analytical Results
Table 3 – Groundwater Sample Analytical Results

Figure 1 – Site Location Map
Figure 2 – Sample Location Map
Figure 3 – Soil Analytical Results Map
Figure 4 – Groundwater Analytical Results Map

Attachment A – Previous Environmental Reports (CD)
Attachment B – Geophysical Survey Report
Attachment C – Soil Boring Logs
Attachment D – Well Completion Reports
Attachment E – Groundwater Low-Flow Sampling Logs
Attachment F – Laboratory Analytical Reports with Chain of Custody Data
Attachment G – Analytical Laboratory NYSDOH Certification

TABLES

Table 1
Sample Summary
Limited Phase II ESI Report
714 East 241 Street
Bronx, New York
Langan Project No. 140115301

Sample Name	Sample Depth (ft bgs)	Date	Observations[1]	PID Reading (ppm)	Observed Depth to Groundwater[2]	Sample Analyses
Soil Samples						
SB-1 (2.5-4.5)	2.5 to 4.5	23-Jan-15	Fill	0.0	10-feet bgs	TCL VOCs, TCL SVOCs, TAL Metals, Pesticides, PCBs
SB-1 (7-9)	7 to 9	23-Jan-15	Virgin Material	17.8		
SB-2 (1.5-3.5)	1.5 to 3.5	23-Jan-15	Fill	0.0	11-feet bgs	
SB-2 (8-10)	8 to 10	23-Jan-15	Virgin Material	0.0		
SB-3 (1-3)	1 to 3	23-Jan-15	Fill	0.0	12-feet bgs	
SB-3 (11-13)	11 to 13	23-Jan-15	Virgin Material	374		
SB-4 (1.5-3.5)	1.5 to 3.5	23-Jan-15	Fill	0.2	9-feet bgs	
SB-4 (6-8)	6 to 8	23-Jan-15	Virgin Material	0.0		
SB-5 (1-3)	1 to 3	23-Jan-15	Fill	0.0	16-feet bgs	
SB-5 (14-16)	14 to 16	23-Jan-15	Virgin Material	0.0		
SB-6 (0-2)	0 to 2	23-Jan-15	Fill	0.0	NO	
DUP-1-(from SB-3 (11-13))	SB-3(MW) 11 to 13	23-Jan-15	Virgin Material	374	12-feet bgs	
Groundwater Samples						
SB-1 (MW)	--	23-Jan-15	GW	0.0	10-feet bgs	TCL VOCs, TCL SVOCs, TAL Metals, TAL Dissolved Metals (filtered), PCBs
SB-2 (MW)	--	23-Jan-15	GW	0.0	11-feet bgs	TCL VOCs, TCL SVOCs
SB-3 (MW)	--	23-Jan-15	GW	0.0	12-feet bgs	TCL VOCs, TCL SVOCs, TAL Metals, TAL Dissolved Metals (filtered), PCBs
SB-4 (MW)	--	23-Jan-15	GW	0.0	9-feet bgs	TCL VOCs, TCL SVOCs, TAL Metals, TAL Dissolved Metals (filtered), PCBs
DUP (from SB-3 (MW))	--	23-Jan-15	GW	0.0	12-feet bgs	TCL VOCs, TCL SVOCs, TAL Metals, TAL Dissolved Metals (filtered), PCBs

Notes:
1) Soil types based on field observations.
2) Groundwater depths based on field observations.

Acronyms:
BGS = Below grade surface
GW = Groundwater
NA = Not applicable
NO = Not observed
PID = Photoionization detector
PPM = Parts per million
VOCs = Volatile organic compounds
SVOCs = Semivolatile organic compounds
PCBs = Polychlorinated biphenyls
EPA = United States Environmental Protection Agency

Table 2
Soil Analytical Results - January 2015 Limited Phase II ESI
714 East 241 Street
Bronx, New York
Langan Project No.: 140115301

Parameters	NYSDEC Subpart 375-6: Remedial Program Soil Cleanup Objectives		Sample ID Sample Date Sampling Depth Units Sample Medium	SB-1 (2.5-4.5) 1/23/2015 2.5'-4.5' mg/kg Fill	SB-1 (7-9) 1/23/2015 7'-9' mg/kg Sand	SB-2 (1.5-3.5) 1/23/2015 1.5'-3.5' mg/kg Fill	SB-2 (8-10) 1/23/2015 8'-10' mg/kg Sand	SB-3 (1-3) 1/23/2015 1'-3' mg/kg Fill	SB-3 (11-13) 1/23/2015 11'-13' mg/kg Sand	DUP-1 (SB-3 (11-13)) 1/23/2015 11'-13' mg/kg Sand	SB-4 (1.5-3.5) 1/23/2015 1.5'-3.5' mg/kg Fill	SB-4 (6-8) 1/23/2015 6'-8' mg/kg Sand	SB-5 (1-3) 1/23/2015 1'-3' mg/kg Fill	SB-5 (14-16) 1/23/2015 14'-16' mg/kg Sand	SB-6 (0-2) 1/23/2015 0'-2' mg/kg Fill
	Unrestricted Use Objectives	Restricted Residential														
VOCs (mg/kg)																
1,2,4-Trimethylbenzene	3.6	52		ND<0.0023	ND<0.0021	3.20	ND<0.0018	ND<0.0019	0.46	0.45	ND<0.25	ND<0.0022	ND<0.0021	ND<0.0018	ND<0.0019
1,2-Dichloroethane	0.02	3.1		ND<0.0023	ND<0.0021	**ND<0.21**	ND<0.0018	ND<0.0019	**ND<0.18**	**ND<0.19**	**ND<0.25**	ND<0.0022	ND<0.0021	ND<0.0018	ND<0.0019
1,3,5-Trimethylbenzene	8.4	52		ND<0.0023	ND<0.0021	0.55	ND<0.0018	ND<0.0019	ND<0.18	ND<0.19	ND<0.25	ND<0.0022	ND<0.0021	ND<0.0018	ND<0.0019
1,4-Dioxane	0.1	13		ND<0.045	ND<0.085	**4.20**	ND<0.071	ND<0.076	**ND<7.30**	**ND<7.50**	**ND<10**	ND<0.090	ND<0.084	ND<0.073	ND<0.078
2-Butanone	0.12	100		ND<0.0023	0.012	**ND<0.21**	ND<0.0018	ND<0.0019	**ND<0.18**	**ND<0.19**	**ND<0.25**	0.016	ND<0.0021	ND<0.0018	ND<0.0019
Acetone	0.05	100		**0.18**	**0.059**	**ND<0.42**	ND<0.0035	ND<0.0038	**ND<0.36**	**ND<0.37**	**ND<0.50**	**0.078**	0.045	0.014	ND<0.0039
Benzene	0.06	4.8		ND<0.0023	ND<0.0021	**ND<0.21**	ND<0.0018	ND<0.0019	**ND<0.18**	**ND<0.19**	**ND<0.25**	ND<0.0022	ND<0.0021	ND<0.0018	ND<0.0019
Ethyl Benzene	1	41		0.0071	ND<0.0021	ND<0.21	ND<0.0018	0.0043	ND<0.18	ND<0.19	ND<0.25	0.0067	ND<0.0021	ND<0.0018	ND<0.0019
Methylcyclohexane	~	~		ND<0.0023	ND<0.0021	ND<0.21	ND<0.0018	ND<0.0019	1.40	1.30	ND<0.25	ND<0.0022	ND<0.0021	ND<0.0018	ND<0.0019
Methylene chloride	0.05	100		ND<0.0045	0.0047 J	**ND<0.42**	ND<0.0035	ND<0.0038	**0.44 J**	**0.42 J**	**0.80 J**	ND<0.0045	ND<0.0042	ND<0.0036	ND<0.0039
n-Butylbenzene	12	100		ND<0.0023	ND<0.0021	ND<0.21	ND<0.0018	ND<0.0019	0.45	0.51	ND<0.25	ND<0.0022	ND<0.0021	ND<0.0018	ND<0.0019
n-Propylbenzene	3.9	100		ND<0.0023	ND<0.0021	ND<0.21	ND<0.0018	ND<0.0019	0.51	0.47	ND<0.25	ND<0.0022	ND<0.0021	ND<0.0018	ND<0.0019
o-Xylene	~	~		0.018	0.0022 J	ND<0.21	ND<0.0018	0.0091	ND<0.18	ND<0.19	ND<0.25	0.015	ND<0.0021	ND<0.0018	ND<0.0019
p- & m- Xylenes	~	~		0.034	0.0051 J	0.58 J	ND<0.0035	0.020	ND<0.36	ND<0.37	ND<0.5	0.033	ND<0.0042	ND<0.0036	ND<0.0039
Tetrachloroethylene	1.3	19		ND<0.0023	ND<0.0021	ND<0.21	ND<0.0018	0.0052	ND<0.18	ND<0.19	ND<0.25	ND<0.0022	ND<0.0021	ND<0.0018	ND<0.0019
trans-1,2-Dichloroethylene	0.19	100		ND<0.0023	ND<0.0021	**ND<0.21**	ND<0.0018	ND<0.0019	ND<0.18	ND<0.19	**ND<0.25**	ND<0.0022	ND<0.0021	ND<0.0018	ND<0.0019
Vinyl Chloride	0.02	0.9		ND<0.0023	ND<0.0021	**ND<0.21**	ND<0.0018	ND<0.0019	**ND<0.18**	**ND<0.19**	**ND<0.25**	ND<0.0022	ND<0.0021	ND<0.0018	ND<0.0019
Xylenes, Total	0.26	100		0.052	0.0073 J	**0.74 J**	ND<0.0053	0.029	**ND<0.55**	**ND<0.56**	**ND<0.75**	0.048	ND<0.0063	ND<0.0055	ND<0.0058
SVOCs (mg/kg)																
1,1'-Biphenyl	~	~		ND<0.046	ND<0.046	ND<0.11	ND<0.024	ND<0.047	ND<0.023	ND<0.023	3.11	ND<0.026	ND<0.049	ND<0.023	ND<0.048
1,2-Dichlorobenzene	1.1	100		ND<0.046	ND<0.046	ND<0.11	ND<0.024	ND<0.047	ND<0.023	ND<0.023	**ND<1.18**	ND<0.026	ND<0.049	ND<0.023	ND<0.048
2,4-Dinitrophenol	~	~		0.091	ND<0.092	ND<0.22	ND<0.048	ND<0.093	ND<0.045	ND<0.046	ND<2.36	ND<0.052	ND<0.097	ND<0.045	ND<0.096
2,4-Dinitrotoluene	~	~		ND<0.046	ND<0.046	ND<0.11	ND<0.024	ND<0.047	ND<0.023	ND<0.023	ND<1.18	ND<0.026	0.0635 J	ND<0.023	ND<0.048
2-Methylnaphthalene	~	~		0.11	ND<0.046	0.357	ND<0.024	0.0783 J	1.08	0.847	17.40	0.134	ND<0.049	ND<0.023	ND<0.048
2-Methylphenol	0.33	100		ND<0.046	ND<0.046	ND<0.11	ND<0.024	ND<0.047	ND<0.023	ND<0.023	**ND<1.18**	ND<0.026	ND<0.049	ND<0.023	ND<0.048
Acenaphthene	20	100		0.0541 J	0.116	ND<0.11	ND<0.024	ND<0.047	0.0283 J	ND<0.023	4.98	0.0358 J	0.19 J	ND<0.023	ND<0.048
Acenaphthylene	100	100		0.315	0.363	0.325	ND<0.024	ND<0.047	ND<0.023	ND<0.023	12.20	0.0898	0.0875	ND<0.023	ND<0.048
Anthracene	100	100		0.202	0.561	0.176 J	ND<0.024	0.103	ND<0.023	ND<0.023	19.10	0.15	0.394	ND<0.023	ND<0.048
Benzo(a)anthracene	1	1		0.904	0.814	0.179 J	ND<0.024	0.387	0.0769	0.0379 J	**14**	0.272	**1.03**	0.0334 J	0.197
Benzo(a)pyrene	1	1		0.454	0.637	0.183 J	ND<0.024	0.250	0.0494	0.0310 J	**6.43**	0.178	0.371	ND<0.023	0.143
Benzo(b)fluoranthene	1	1		0.456	0.774	0.255	ND<0.024	0.297	0.0875	0.0335 J	**7.15**	0.148	0.305	ND<0.023	0.119
Benzo(g,h,i)perylene	100	100		0.787	0.656	0.635	ND<0.024	0.179	ND<0.023	ND<0.023	6.73	0.0769	0.243	ND<0.023	0.0752 J
Benzo(k)fluoranthene	0.8	3.9		0.638	**0.807**	0.197 J	ND<0.024	0.351	0.108	0.0331 J	**10**	0.204	0.443	ND<0.023	0.161
Bis(2-ethylhexyl)phthalate	~	~		0.337	ND<0.046	ND<0.11	ND<0.024	ND<0.047	ND<0.023	ND<0.023	ND<1.18	ND<0.026	0.119	ND<0.023	ND<0.048
Carbazole	~	~		0.057 J	0.0701 J	ND<0.11	ND<0.024	0.0835 J	ND<0.023	ND<0.023	7.96	0.067	ND<0.049	ND<0.023	ND<0.048
Chrysene	1	3.9		**1.02**	**1.92**	0.686	ND<0.024	0.843	0.103	0.0484	**31.3**	0.27	**1.06**	0.0367 J	0.219
Dibenzo(a,h)anthracene	0.33	0.33		0.289	0.212	ND<0.11	ND<0.024	0.0731 J	ND<0.023	ND<0.023	**3.85**	0.0391 J	0.114	ND<0.023	ND<0.048
Dibenzofuran	7	59		ND<0.046	0.0782 J	ND<0.11	ND<0.024	0.0731 J	ND<0.023	ND<0.023	**12.50**	0.0928	0.123	ND<0.023	ND<0.048
Di-n-butyl phthalate	~	~		ND<0.046	ND<0.046	0.521	ND<0.024	ND<0.047	ND<0.023	ND<0.023	ND<1.18	ND<0.026	ND<0.049	ND<0.023	ND<0.048
Fluoranthene	100	100		0.771	2.64	0.573	ND<0.024	1.58 J	0.217	0.0918	61	0.617	1.88	0.0737	0.361
Fluorene	30	100		0.175	0.337	ND<0.11	ND<0.024	0.0768	0.0425 J	ND<0.023	26.50	0.207	0.355	ND<0.023	ND<0.048
Hexachlorobenzene	0.33	1.2		ND<0.046	ND<0.046	ND<0.11	ND<0.024	ND<0.047	ND<0.023	ND<0.023	**ND<1.18**	ND<0.026	ND<0.049	ND<0.023	ND<0.048
Indeno(1,2,3-cd)pyrene	0.5	0.5		**0.629**	**0.589**	0.252	ND<0.024	0.176	0.0269 J	ND<0.023	**6.90**	0.0794	0.235	ND<0.023	ND<0.048
Naphthalene	12	100		ND<0.046	ND<0.046	0.213 J	ND<0.024	0.0909 J	ND<0.023	0.184	**15.40**	0.135	ND<0.049	ND<0.023	ND<0.048
Pentachlorophenol	0.8	6.7		ND<0.046	0.18	ND<0.11	ND<0.024	ND<0.047	ND<0.023	ND<0.023	**ND<1.18**	ND<0.026	ND<0.049	ND<0.023	ND<0.048
Phenanthrene	100	100		0.229	0.517	0.475	ND<0.024	1.44	0.305	0.116	90.30	0.816	1.79	0.0802	0.226
Phenol	0.33	100		ND<0.046	ND<0.046	ND<0.11	ND<0.024	ND<0.047	ND<0.023	ND<0.023	**ND<1.18**	ND<0.026	ND<0.049	ND<0.023	ND<0.048
Pyrene	100	100		2.43	2.62	0.725	ND<0.024	1.39	0.210	0.0914	48.40	0.512	2.26	0.0632	0.355
Pesticides/Herbicides (mg/kg)																
4,4'-DDE	0.0033	8.9		ND<0.0027	ND<0.0027	ND<0.0026	ND<0.0029	ND<0.0028	ND<0.0027	ND<0.0027	ND<0.0028	ND<0.0031	**0.00476**	ND<0.0027	**0.00672**
4,4'-DDT	0.0033	7.9		ND<0.0027	ND<0.0027	ND<0.0026	ND<0.0029	**0.00425**	ND<0.0027	ND<0.0027	ND<0.0028	ND<0.0031	**0.0109**	ND<0.0027	**0.0338**
alpha-Chlordane	0.094	4.2		ND<0.0027	ND<0.0027	0.00464	ND<0.0029	ND<0.0028	ND<0.0027	ND<0.0027	ND<0.0028	ND<0.0031	**0.111**	0.026	0.0426
Chlordane, total	~	~		ND<0.11	ND<0.11	ND<0.11	ND<0.115	ND<0.111	ND<0.108	ND<0.108	ND<0.11	ND<0.124	1.47	0.389	0.567
gamma-Chlordane	~	~		ND<0.0027	ND<0.0027	0.00488	ND<0.0029	ND<0.0028	ND<0.0027	ND<0.0027	ND<0.0028	ND<0.0031	0.114	0.0299	0.0418
Heptachlor	0.042	2.1		ND<0.0027	ND<0.0027	ND<0.0026	ND<0.0029	ND<0.0028	ND<0.0027	ND<0.0027	ND<0.0028	ND<0.0031	0.0091	ND<0.0027	ND<0.0029
Heptachlor epoxide	~	~		ND<0.0027	ND<0.0027	ND<0.0026	ND<0.0029	ND<0.0028	ND<0.0027	ND<0.0027	ND<0.0028	ND<0.0031	ND<0.0029	ND<0.0027	0.00872
PCBs (mg/kg)																
Aroclor 1260	~	~		ND<0.027	ND<0.028	0.0585	ND<0.029	ND<0.028	ND<0.027	ND<0.027	ND<0.028	ND<0.031	ND<0.029	ND<0.027	0.0881
Total PCBs	0.1	1		ND<0.027	ND<0.028	0.0585	ND<0.029	ND<0.028	ND<0.027	ND<0.027	ND<0.028	ND<0.031	ND<0.029	ND<0.027	0.0881
Metals (mg/kg)																
Aluminum	~	~		8,510	7,860	8,140	13,000	9,410	5,210	5,950	9,240	16,600	9,400	6,400	12,400
Arsenic	13	16		6.43	4.48	4.80	4.33	5.92	2.45	2.47	5.40	4.12	6.37	3.58	5.57
Barium	350	400		137	122	186	88.80	110	36.10	43.70	169	86.90	142	53.60	114
Cadmium	2.5	4.3		ND<0.33	ND<0.33	ND<0.32	ND<0.35	ND<0.34	ND<0.33	ND<0.33	ND<0.34	ND<0.37	0.50	ND<0.33	ND<0.35
Calcium	~	~		11,500	9,550	8,910	2,610	11,900	3,630	2,180	3,210	3,220	35,100	13,300	5,660
Chromium	~	~		23.80	16.70	20	23.40	17.80	10.20	10.80	19.90	26.70	20.30	12.80	22.90
Cobalt	~	~		7.64	6.60	6.90	7.74	6.79	5.30	4.74	7.47	6.81	8.29	6.88	7.86
Copper	50	270		**60.20**	39.70	**68.10**	19.50	**55.20**	16.60	15.40	37.70	14.10	**112**	18.10	31.40
Iron	~	~		16,600	14,900	15,500	18,700	15,800	11,900	12,000	15,300	18,300	18,500	15,500	19,100
Lead	63	400		**417**	**234**	**322**	8.39	**221**	9.13	6.75	**249**	20.80	**256**	12.40	**224**
Magnesium	~	~		6,170	5,560	3,530	4,230	8,000	2,780	2,490	3,290	3,730	6,940	5,840	3,580
Manganese	1600	2000		233	230	249	220	303	137	153	183	288	251	291	328
Mercury	0.18	0.81		0.13	**0.182**	**0.2**	ND<0.035	0.144	ND<0.033	ND<0.033	0.141	0.0926	0.15	ND<0.033	0.176
Nickel	30	310		22.60	16.90	18.80	21	18	15.10	14.60	18	18.40	21.30	17.80	19.30
Potassium	~	~		1,690	1,500	1,550	1,230	1,380	1,460	1,660	1,410	913	2,590	1,810	1,420
Selenium	3.9	180		**3.95**	3.19	**4.16**	3.08	3.46	2.38	2.76	3.63	**4.15**	**4.08**	3.20	**4.06**
Sodium	~	~		245	177	196	101	128	144	182	135	85.80	193	163	130
Vanadium	~	~		26.80	23.50	27.10	29.10	24.30	16.10	14.80	26.10	34.50	30.40	18.20	29
Zinc	109	10000		**427**	**271**	**193**	44.90	**275**	24.50	22.40	**147**	42.80	**500**	39.80	**126**

Notes:

ND = Not detected above laboratory reporting limits

NE = Not established

NT = Not tested

J = Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration

Indicates exceedance of the Unrestricted Use Objectives

Indicates exceedance of the Restricted Residential Soil Cleanup Objectives

Indicates laboratory reporting limits were above the applicable criteria

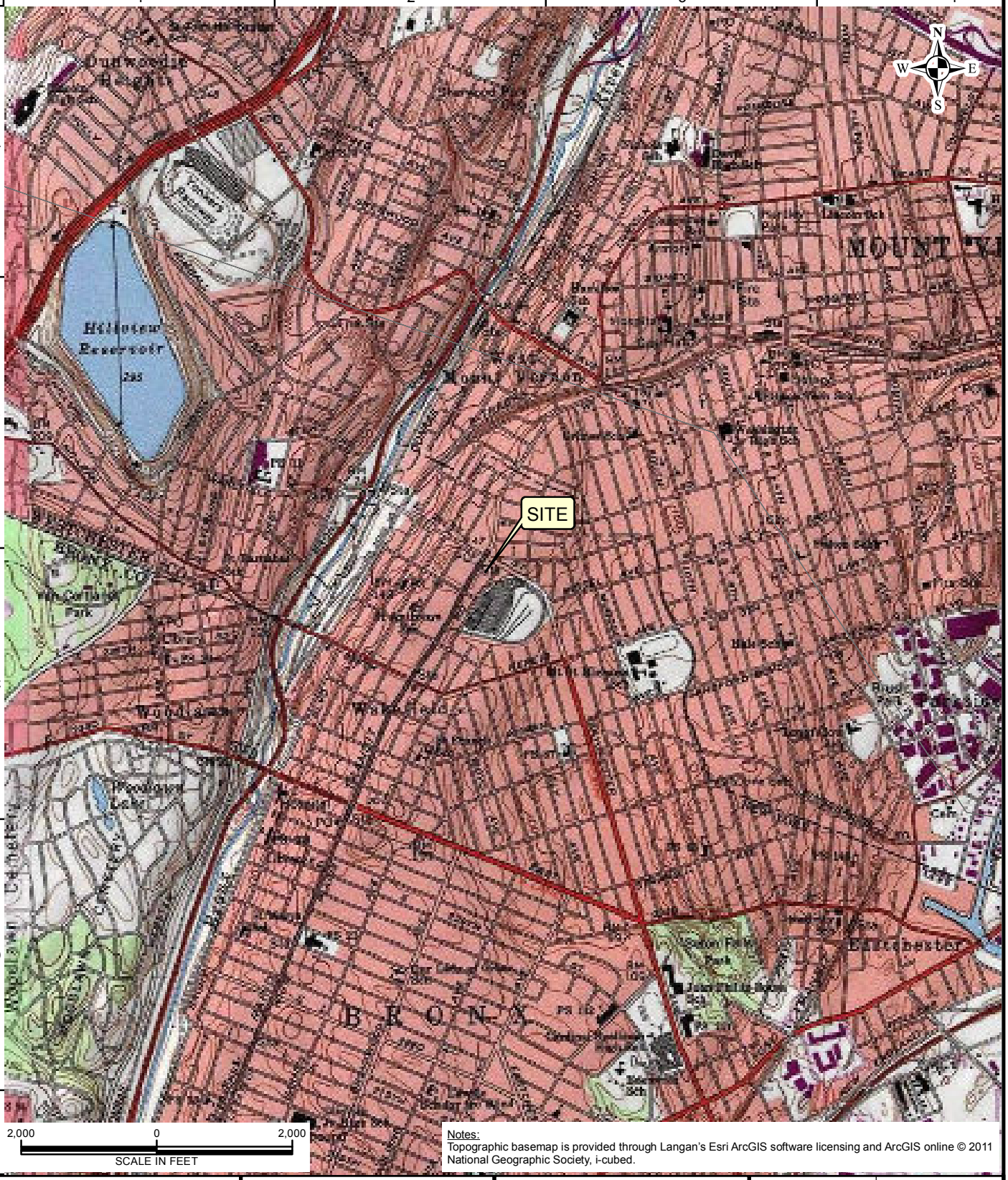
Table 3
Groundwater Analytical Results - January 2015 Limited Phase II ESI
714 East 241 Street
Bronx, New York
Langan Project No.: 140115301

Parameters	NYSDEC TOGS Standards and Guidance Values - GA	Sample ID Sample Date Units Sample Medium	SB-1(MW) 1/23/2015 µg/l Groundwater	SB-2(MW) 1/23/2015 µg/l Groundwater	SB-3(MW) 1/23/2015 µg/l Groundwater	DUP (SB-3MW) 1/23/2015 µg/l Groundwater	SB-4(MW) 1/23/2015 µg/l Groundwater
VOCs (µg/l)							
1,1,2-Trichloroethane	1		ND<0.20	ND<0.20	**ND<2**	**ND<2**	ND<0.20
1,2,3-Trichloropropane	0.04		**ND<0.20**	**ND<0.20**	**ND<2**	**ND<2**	**ND<0.20**
1,2,4-Trimethylbenzene	5		ND<0.20	1.90	ND<2	ND<2	ND<0.20
1,2-Dibromo-3-chloropropane	0.04		**ND<0.20**	**ND<0.20**	**ND<2**	**ND<2**	**ND<0.20**
1,2-Dichloroethane	0.6		ND<0.20	ND<0.20	**ND<2**	**ND<2**	ND<0.20
1,2-Dichloropropane	1		ND<0.20	ND<0.20	**ND<2**	**ND<2**	ND<0.20
1,3,5-Trimethylbenzene	5		ND<0.20	0.41 J	**61**	**56**	0.29 J
2-Butanone	50		ND<0.20	3.20	ND<2	ND<2	ND<0.20
4-Methyl-2-pentanone	~		ND<0.20	4	ND<2	ND<2	ND<0.20
Acetone	50		11	9	ND<10	ND<10	ND<1
Benzene	1		ND<0.20	0.97	**65**	**63**	0.33 J
Chloromethane	5		ND<0.20	3.50	ND<2	3 J	ND<0.20
cis-1,3-Dichloropropylene	0.4		ND<0.20	ND<0.20	**ND<2**	**ND<2**	ND<0.20
Cyclohexane	~		ND<0.20	ND<0.20	180	180	ND<0.20
Ethyl Benzene	5		1.20	1	**120**	**110**	0.54
Hexachlorobutadiene	0.5		ND<0.20	ND<0.20	**ND<2**	**ND<2**	ND<0.20
Isopropylbenzene	5		ND<0.20	ND<0.20	**29**	**28**	ND<0.20
Methyl tert-butyl ether (MTBE)	10		1.50	ND<0.20	ND<2	ND<2	ND<0.20
Methylcyclohexane	~		ND<0.20	ND<0.20	110	110	ND<0.20
Methylene chloride	5		1	1	**ND<10**	**ND<10**	1
n-Butylbenzene	5		ND<0.20	ND<0.20	**23**	**21**	ND<0.20
n-Propylbenzene	5		ND<0.20	ND<0.20	**97**	**92**	0.47 J
o-Xylene	5		2.50	2.30	5	4.60 J	0.53
p- & m- Xylenes	5		5	4.10	**42**	**40**	1
p-Isopropyltoluene	5		ND<0.20	ND<0.20	3.90 J	3.70 J	ND<0.20
sec-Butylbenzene	5		ND<0.20	ND<0.20	**8.40**	**7.70**	ND<0.20
Toluene	5		ND<0.20	2.50	**12**	**11**	0.22 J
trans-1,3-Dichloropropylene	0.4		ND<0.20	ND<0.20	**ND<2**	**ND<2**	ND<0.20
Xylenes, Total	5		**7.50**	**6.30**	**47**	**45**	1.60
SVOCs (µg/l)							
1,2-Dichlorobenzene	3		ND<2.70	**ND<3.45**	ND<2.50	ND<2.50	**ND<5**
1,3-Dichlorobenzene	3		ND<2.70	**ND<3.45**	ND<2.50	ND<2.50	**ND<5**
1,4-Dichlorobenzene	3		ND<2.70	**ND<3.45**	ND<2.50	ND<2.50	**ND<5**
2,4,5-Trichlorophenol	1		**ND<2.70**	**ND<3.45**	**ND<2.50**	**ND<2.50**	**ND<5**
2,4,6-Trichlorophenol	1		**ND<2.70**	**ND<3.45**	**ND<2.50**	**ND<2.50**	**ND<5**
2-Chlorophenol	1		**ND<2.70**	**ND<3.45**	**ND<2.50**	**ND<2.50**	**ND<5**
2-Methylnaphthalene	~		ND<2.70	ND<3.45	33.20	33.50	7.42 J
2-Methylphenol	1		**ND<2.70**	**ND<3.45**	**ND<2.50**	**ND<2.50**	**ND<5**
2-Nitrophenol	1		**ND<2.70**	**ND<3.45**	**ND<2.50**	**ND<2.50**	**ND<5**
4-Chloro-3-methylphenol	1		**ND<2.70**	**ND<3.45**	**ND<2.50**	**ND<2.50**	**ND<5**
4-Nitrophenol	1		**ND<2.70**	**ND<3.45**	**ND<2.50**	**ND<2.50**	**ND<5**
Acenaphthene	20		ND<0.054	ND<0.069	ND<0.050	0.080	0.94
Acenaphthylene	~		ND<0.054	ND<0.069	0.070	0.080	2.36
Anthracene	50		ND<0.054	ND<0.069	0.11	0.090	2.08
Benzo(a)anthracene	0.002		**ND<0.054**	**ND<0.069**	**ND<0.050**	**ND<0.050**	**2.40**
Benzo(a)pyrene	0.002		**ND<0.054**	**ND<0.069**	**ND<0.050**	**ND<0.050**	**1.80**
Benzo(b)fluoranthene	0.002		**ND<0.054**	**ND<0.069**	**ND<0.050**	**ND<0.050**	**1**
Benzo(g,h,i)perylene	~		ND<0.054	ND<0.069	ND<0.050	ND<0.050	1.08
Benzo(k)fluoranthene	0.002		**ND<0.054**	**ND<0.069**	**ND<0.050**	**ND<0.050**	**1.46**
Bis(2-chloroethyl)ether	1		**ND<2.70**	**ND<3.45**	**ND<2.50**	**ND<2.50**	**ND<5**
Bis(2-ethylhexyl)phthalate	5		ND<0.54	1.50	1.24	0.79	1.02
Chrysene	0.002		**ND<0.054**	**ND<0.069**	**ND<0.050**	**ND<0.050**	**2.04**
Dibenzo(a,h)anthracene	~		ND<0.054	ND<0.069	ND<0.050	ND<0.050	0.56
Fluoranthene	50		ND<0.054	ND<0.069	ND<0.050	ND<0.050	6.60
Fluorene	50		ND<0.054	0.0966	ND<0.050	0.13	3.94
Hexachlorobutadiene	0.5		**ND<0.54**	**ND<0.69**	ND<0.50	ND<0.50	**ND<1**
Indeno(1,2,3-cd)pyrene	0.002		**ND<0.054**	**ND<0.069**	**ND<0.050**	**ND<0.050**	**1.06**
Naphthalene	10		ND<0.054	0.828	**27.40**	**27.70**	**11.70**
Nitrobenzene	0.4		ND<0.27	ND<0.35	ND<0.25	ND<0.25	**ND<0.50**
Phenanthrene	50		ND<0.054	0.166	0.15	0.13	12.60
Phenol	1		**ND<2.70**	**ND<3.45**	**ND<2.50**	**ND<2.50**	**ND<5**
Pyrene	50		ND<0.054	ND<0.069	ND<0.050	ND<0.050	5.94
PCBs (µg/l)							
Total PCBs	0.09		**ND<0.118**	NT	ND<0.050	ND<0.050	ND<0.051
Metals, Dissolved (mg/l)							
Aluminum	~		1,900	NT	262	288	330
Antimony	3		**ND<5**	NT	**ND<5**	**ND<5**	**ND<5**
Barium	1000		186	NT	129	177	111
Calcium	~		89,200	NT	117,000	117,000	124,000
Chromium	50		5	NT	ND<5	ND<5	ND<5
Cobalt	~		8	NT	ND<5	ND<5	ND<5
Copper	200		10	NT	ND<3	ND<3	ND<3
Iron	~		2,290	NT	1,840	14,600	70
Magnesium	35000		**47,400**	NT	**57,500**	**58,000**	23,700
Manganese	300		**2,690**	NT	**2,490**	**2,490**	**3,910**
Nickel	100		18	NT	ND<5	ND<5	ND<5
Potassium	~		7,880	NT	4,150	4,020	7,020
Selenium	10		ND<10	NT	10	10	ND<10
Sodium	20000		**32,300**	NT	**61,500**	**60,100**	**32,700**
Zinc	2000		76	NT	ND<10	17	17
Metals (mg/l)							
Aluminum	~		12,300	NT	1,140	1,090	7,340
Antimony	3		**ND<5**	NT	**ND<5**	**ND<5**	**ND<5**
Arsenic	25		ND<4	NT	5	ND<4	ND<4
Barium	1000		307	NT	191	177	218
Calcium	~		107,000	NT	118,000	109,000	126,000
Chromium	50		34	NT	ND<5	ND<5	20
Cobalt	~		20	NT	ND<5	ND<5	12
Copper	200		25	NT	5	8	19
Iron	~		20,200	NT	15,800	14,400	12,600
Lead	25		12	NT	ND<3	3	14
Magnesium	35000		**60,700**	NT	**59,700**	**54,900**	27,800
Manganese	300		**3,590**	NT	**2,570**	**2,390**	**4,730**
Nickel	100		47	NT	7	7	25
Potassium	~		9,920	NT	4,510	4,300	8,320
Selenium	10		ND<10	NT	**12**	ND<10	**12**
Sodium	20000		**33,100**	NT	**61,800**	**58,800**	**32,700**
Vanadium	~		34	NT	ND<10	ND<10	22
Zinc	2000		171	NT	23	30	63

Notes:
ND = Not detected above laboratory reporting limits
NE = Not established
NT = Not tested
J = Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration

Indicates exceedance of the Groundwater Quality Standards Part 703
Indicates laboratory reporting limits were above the applicable criteria

FIGURES



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Langan International LLC

Collectively known as Langan

Project	ENCLAVE ON 241ST STREET DEVELOPMENT BLOCK No. 5087 LOT No. 1 BRONX NEW YORK
Drawing Title	SITE LOCATION MAP
Project No.	140115301
Date	1/27/15
Scale	1"=2,000'
Drawn By	SEC
Submission Date	2/3/2015
Figure	1

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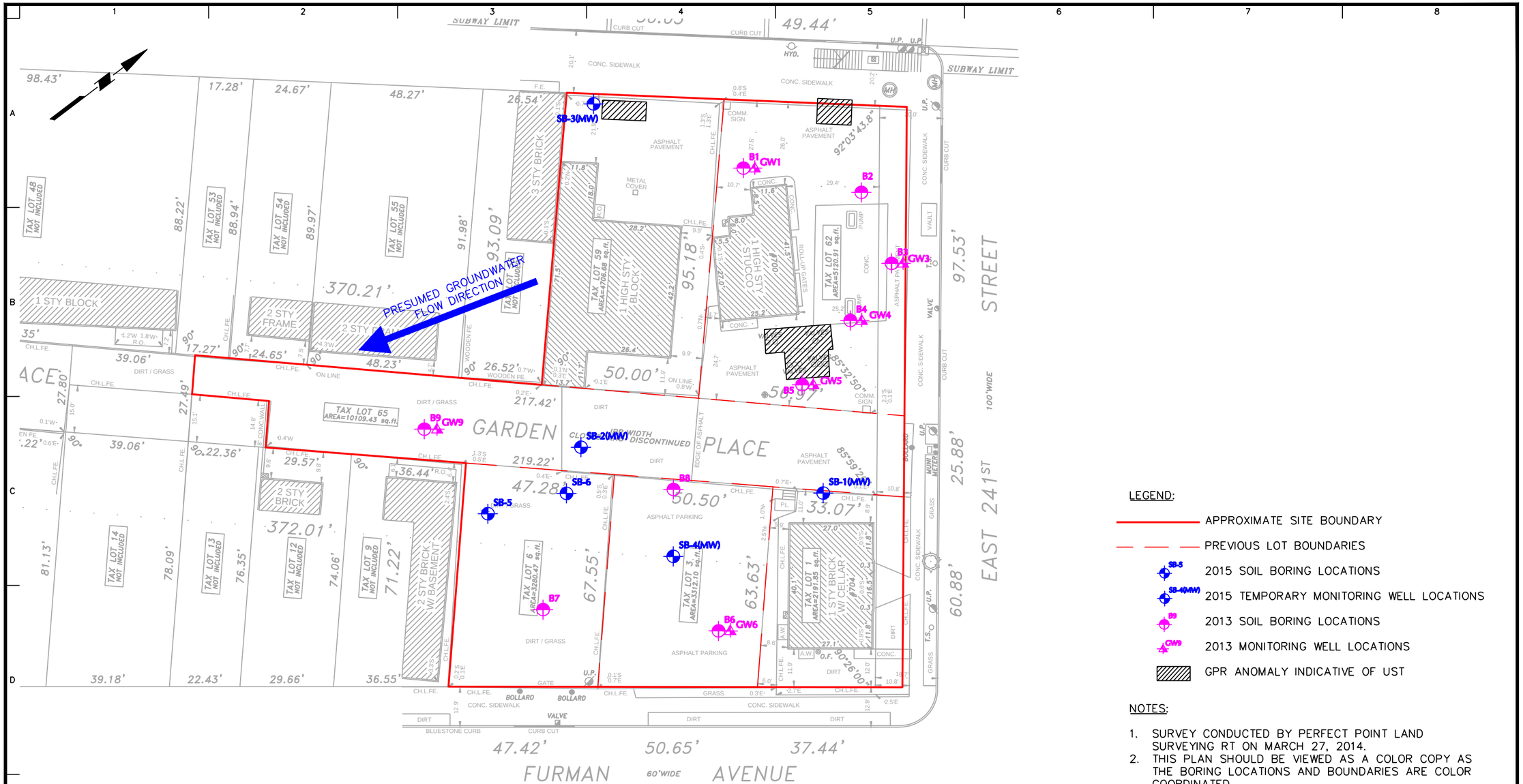
Path: \\Langan.com\data\NH\data3\140115301\ArcGIS\ArcMap_Documents\Figure 1 USGS Site Location Map NYNH.mxd Date: 2/2/2015 User: sclout Time: 12:53:28 PM



LEGEND:

- APPROXIMATE SITE BOUNDARY
- PREVIOUS LOT BOUNDARIES
- 2015 SOIL BORING LOCATIONS
- 2015 TEMPORARY MONITORING WELL LOCATIONS
- 2013 SOIL BORING LOCATIONS
- 2013 MONITORING WELL LOCATIONS
- GPR ANOMALY INDICATIVE OF UST

NOTES:

1. SURVEY CONDUCTED BY PERFECT POINT LAND SURVEYING RT ON MARCH 27, 2014.
2. THIS PLAN SHOULD BE VIEWED AS A COLOR COPY AS THE BORING LOCATIONS AND BOUNDARIES ARE COLOR COORDINATED.

40 0 10 25 40

SCALE IN FEET

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

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Project: ENCLAVE ON 241ST STREET DEVELOPMENT
BLOCK No. 5087 LOT No. 1
BRONX NEW YORK

Drawing Title: SAMPLE LOCATION MAP

Project No. 140115301	Drawing No. 2
Date 1/27/2015	
Scale 1"=40'	
Drawn By SEC / Checked By RJW	
Submission Date 2/3/2015	

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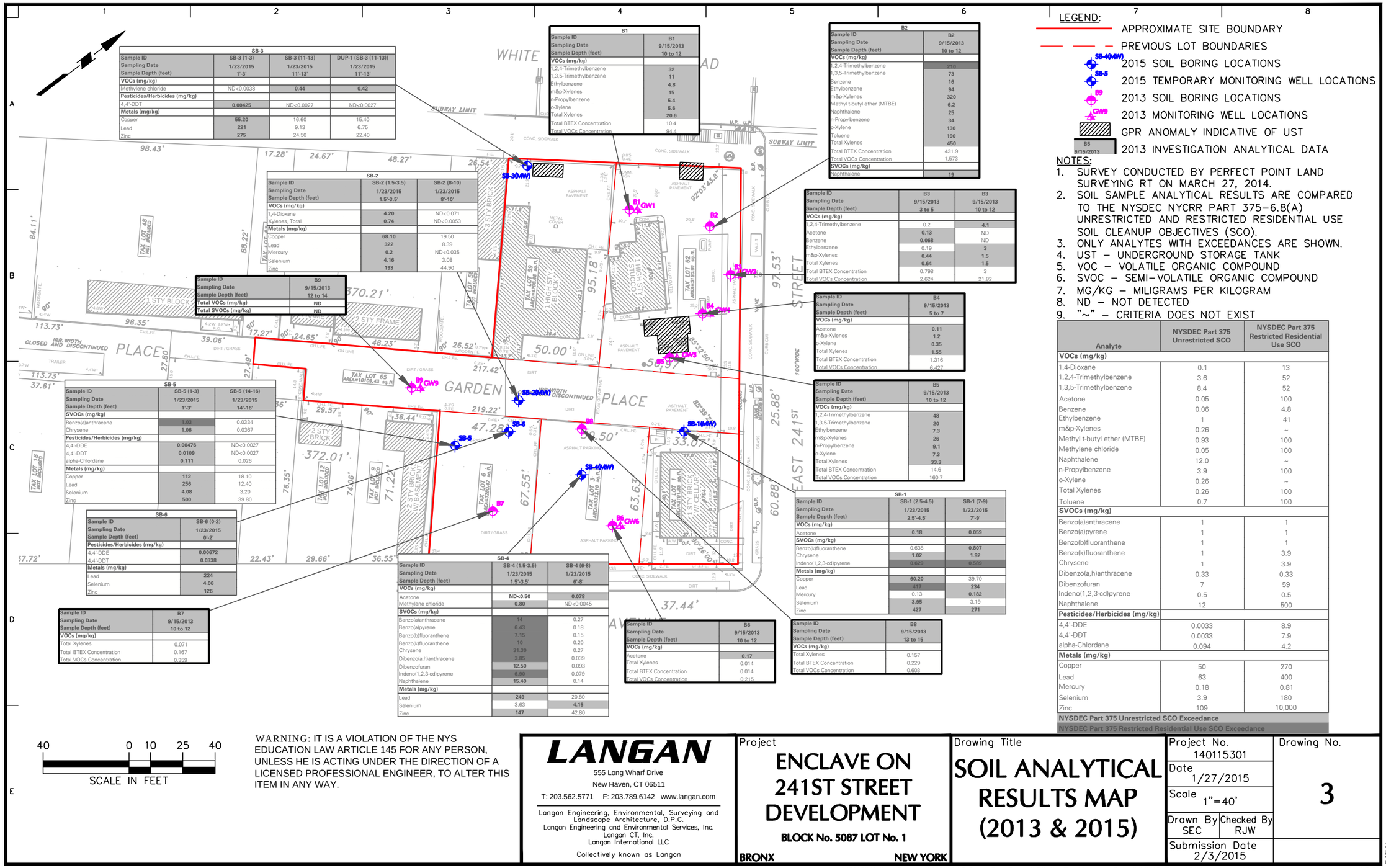
Filename: \\langan.com\data\NH\data3\140115301\Cadd Data - 140115301\2D-DesignFiles\Phase II ESI\Sample Location Plan.dwg Date: 2/3/2015 Time: 14:51 User: jhall Style Table: Langan.stb Layout: ANSIB-BL


WHITE PLACE
GARDEN PLACE
EAST 241ST STREET
SUBWAY LIMIT
SUBWAY LIMIT
IRR. WIDTH CLOSED AND DISCONTINUED
IRR. WIDTH DISCONTINUED
1 STY BRICK
2 STY FRAME
1 STY BLOCK
2 STY BRICK W/ BASEMENT
1 HIGH STY BLOCK
2 STY BRICK W/ CELLAR
TAX LOT 59 AREA=2,500 sq.ft.
TAX LOT 62 AREA=1,250.01 sq.ft.
TAX LOT 65 AREA=10109.43 sq.ft.
TAX LOT 6 AREA=3260.47 sq.ft.
TAX LOT 3 AREA=3121.10 sq.ft.
TAX LOT 1 AREA=2,500.11 sq.ft.
TAX LOT 18 NOT INCLUDED
TAX LOT 12 NOT INCLUDED
TAX LOT 9 NOT INCLUDED
TAX LOT 50 NOT INCLUDED
SB-3(MW)
SB-2(MW)
SB-4(MW)
SB-5
SB-6
SB-10(MW)
B1
B2
B3
B4
B5
B6
B7
B8
B9
CW1
CW2
CW3
CW4
CW5
CW6
CW9
98.43'
17.28'
24.67'
48.27'
26.54'
84.11'
88.22'
95.18'
370.21'
98.35'
113.73'
39.06'
27.80'
37.61'
113.73'
17.27'
24.65'
48.23'
26.52'
217.42'
219.22'
47.28'
136.44' R.O.
372.01'
76.35'
74.26'
71.22'
67.55'
63.63'
50.00'
50.50'
35.07'
58.97'
97.53'
25.88'
60.88'
37.44'
37.72'
22.43'
29.66'
36.55'
92°03'43.8"
85°32'50"
85°59'10"
90°
29.57'
SB-3
Sample ID | SB-3 (1-3) | SB-3 (11-13) | DUP-1 (SB-3 (11-13))
Sampling Date | 1/23/2015 | 1/23/2015 | 1/23/2015
Sample Depth (feet) | 1'-3' | 11'-13' | 11'-13'
VOCs (mg/kg)
Methylene chloride | ND<0.0038 | 0.44 | 0.42
Pesticides/Herbicides (mg/kg)
4,4'-DDT | 0.00425 | ND<0.0027 | ND<0.0027
Metals (mg/kg)
Copper | 55.20 | 16.60 | 15.40
Lead | 221 | 9.13 | 6.75
Zinc | 275 | 24.50 | 22.40
SB-2
Sample ID | SB-2 (1.5-3.5) | SB-2 (8-10)
Sampling Date | 1/23/2015 | 1/23/2015
Sample Depth (feet) | 1.5'-3.5' | 8'-10'
VOCs (mg/kg)
1,4-Dioxane | 4.20 | ND<0.071
Xylenes, Total | 0.74 | ND<0.0053
Metals (mg/kg)
Copper | 68.10 | 19.50
Lead | 322 | 8.39
Mercury | 0.2 | ND<0.035
Selenium | 4.16 | 3.08
Zinc | 193 | 44.90
B9
Sample ID | B9
Sampling Date | 9/15/2013
Sample Depth (feet) | 12 to 14
Total VOCs (mg/kg) | ND
Total SVOCs (mg/kg) | ND
SB-5
Sample ID | SB-5 (1-3) | SB-5 (14-16)
Sampling Date | 1/23/2015 | 1/23/2015
Sample Depth (feet) | 1'-3' | 14'-16'
SVOCs (mg/kg)
Benzo(a)anthracene | 1.03 | 0.0334
Chrysene | 1.06 | 0.0367
Pesticides/Herbicides (mg/kg)
4,4'-DDE | 0.00476 | ND<0.0027
4,4'-DDT | 0.0109 | ND<0.0027
alpha-Chlordane | 0.111 | 0.026
Metals (mg/kg)
Copper | 112 | 18.10
Lead | 256 | 12.40
Selenium | 4.08 | 3.20
Zinc | 500 | 39.80
SB-6
Sample ID | SB-6 (0-2)
Sampling Date | 1/23/2015
Sample Depth (feet) | 0'-2'
Pesticides/Herbicides (mg/kg)
4,4'-DDE | 0.00672
4,4'-DDT | 0.0338
Metals (mg/kg)
Lead | 224
Selenium | 4.06
Zinc | 126
B7
Sample ID | B7
Sampling Date | 9/15/2013
Sample Depth (feet) | 10 to 12
VOCs (mg/kg)
Total Xylenes | 0.071
Total BTEX Concentration | 0.167
Total VOCs Concentration | 0.359
SB-4
Sample ID | SB-4 (1.5-3.5) | SB-4 (6-8)
Sampling Date | 1/23/2015 | 1/23/2015
Sample Depth (feet) | 1.5'-3.5' | 6'-8'
VOCs (mg/kg)
Acetone | ND<0.50 | 0.078
Methylene chloride | 0.80 | ND<0.0045
SVOCs (mg/kg)
Benzo(a)anthracene | 14 | 0.27
Benzo(a)pyrene | 6.43 | 0.18
Benzo(b)fluoranthene | 7.15 | 0.15
Benzo(k)fluoranthene | 10 | 0.20
Chrysene | 31.30 | 0.27
Dibenzo(a,h)anthracene | 3.85 | 0.039
Dibenzofuran | 12.50 | 0.093
Indeno(1,2,3-cd)pyrene | 6.90 | 0.079
Naphthalene | 15.40 | 0.14
Metals (mg/kg)
Lead | 249 | 20.80
Selenium | 3.63 | 4.15
Zinc | 147 | 42.80
B1
Sample ID | B1
Sampling Date | 9/15/2013
Sample Depth (feet) | 10 to 12
VOCs (mg/kg)
1,2,4-Trimethylbenzene | 32
1,3,5-Trimethylbenzene | 11
Ethylbenzene | 4.8
m&p-Xylenes | 15
n-Propylbenzene | 5.4
o-Xylene | 5.6
Total Xylenes | 20.6
Total BTEX Concentration | 10.4
Total VOCs Concentration | 94.4
B2
Sample ID | B2
Sampling Date | 9/15/2013
Sample Depth (feet) | 10 to 12
VOCs (mg/kg)
1,2,4-Trimethylbenzene | 210
1,3,5-Trimethylbenzene | 73
Benzene | 16
Ethylbenzene | 94
m&p-Xylenes | 320
Methyl t-butyl ether (MTBE) | 6.2
Naphthalene | 25
n-Propylbenzene | 34
o-Xylene | 130
Toluene | 190
Total Xylenes | 450
Total BTEX Concentration | 431.9
Total VOCs Concentration | 1,573
SVOCs (mg/kg)
Naphthalene | 19
B3
Sample ID | B3 | B3
Sampling Date | 9/15/2013 | 9/15/2013
Sample Depth (feet) | 3 to 5 | 10 to 12
VOCs (mg/kg)
1,2,4-Trimethylbenzene | 0.2 | 4.1
Acetone | 0.13 | ND
Benzene | 0.068 | ND
Ethylbenzene | 0.19 | 3
m&p-Xylenes | 0.44 | 1.5
Total Xylenes | 0.64 | 1.5
Total BTEX Concentration | 0.798 | 3
Total VOCs Concentration | 2.624 | 21.82
B4
Sample ID | B4
Sampling Date | 9/15/2013
Sample Depth (feet) | 5 to 7
VOCs (mg/kg)
Acetone | 0.11
m&p-Xylenes | 1.2
o-Xylene | 0.35
Total Xylenes | 1.55
Total BTEX Concentration | 1.316
Total VOCs Concentration | 6.427
B5
Sample ID | B5
Sampling Date | 9/15/2013
Sample Depth (feet) | 10 to 12
VOCs (mg/kg)
1,2,4-Trimethylbenzene | 48
1,3,5-Trimethylbenzene | 20
Ethylbenzene | 7.3
m&p-Xylenes | 26
n-Propylbenzene | 9.1
o-Xylene | 7.3
Total Xylenes | 33.3
Total BTEX Concentration | 14.6
Total VOCs Concentration | 160.7
SB-1
Sample ID | SB-1 (2.5-4.5) | SB-1 (7-9)
Sampling Date | 1/23/2015 | 1/23/2015
Sample Depth (feet) | 2.5'-4.5' | 7'-9'
VOCs (mg/kg)
Acetone | 0.18 | 0.059
SVOCs (mg/kg)
Benzo(k)fluoranthene | 0.638 | 0.807
Chrysene | 1.02 | 1.92
Indeno(1,2,3-cd)pyrene | 0.629 | 0.589
Metals (mg/kg)
Copper | 60.20 | 39.70
Lead | 417 | 234
Mercury | 0.13 | 0.182
Selenium | 3.95 | 3.19
Zinc | 427 | 271
B6
Sample ID | B6
Sampling Date | 9/15/2013
Sample Depth (feet) | 10 to 12
VOCs (mg/kg)
Acetone | 0.17
Total Xylenes | 0.014
Total BTEX Concentration | 0.014
Total VOCs Concentration | 0.215
B8
Sample ID | B8
Sampling Date | 9/15/2013
Sample Depth (feet) | 13 to 15
VOCs (mg/kg)
Total Xylenes | 0.157
Total BTEX Concentration | 0.229
Total VOCs Concentration | 0.603
LEGEND:
APPROXIMATE SITE BOUNDARY
PREVIOUS LOT BOUNDARIES
SB-4(MW) 2015 SOIL BORING LOCATIONS
SB-5 2015 TEMPORARY MONITORING WELL LOCATIONS
B9 2013 SOIL BORING LOCATIONS
CW9 2013 MONITORING WELL LOCATIONS
GPR ANOMALY INDICATIVE OF UST
B5 9/15/2013 2013 INVESTIGATION ANALYTICAL DATA
NOTES:
1. SURVEY CONDUCTED BY PERFECT POINT LAND SURVEYING RT ON MARCH 27, 2014.
2. SOIL SAMPLE ANALYTICAL RESULTS ARE COMPARED TO THE NYSDEC NYCRR PART 375-6.8(A) UNRESTRICTED AND RESTRICTED RESIDENTIAL USE SOIL CLEANUP OBJECTIVES (SCO).
3. ONLY ANALYTES WITH EXCEEDANCES ARE SHOWN.
4. UST - UNDERGROUND STORAGE TANK
5. VOC - VOLATILE ORGANIC COMPOUND
6. SVOC - SEMI-VOLATILE ORGANIC COMPOUND
7. MG/KG - MILIGRAMS PER KILOGRAM
8. ND - NOT DETECTED
9. "~" - CRITERIA DOES NOT EXIST
Analyte | NYSDEC Part 375 Unrestricted SCO | NYSDEC Part 375 Restricted Residential Use SCO
VOCs (mg/kg)
1,4-Dioxane | 0.1 | 13
1,2,4-Trimethylbenzene | 3.6 | 52
1,3,5-Trimethylbenzene | 8.4 | 52
Acetone | 0.05 | 100
Benzene | 0.06 | 4.8
Ethylbenzene | 1 | 41
m&p-Xylenes | 0.26 | ~
Methyl t-butyl ether (MTBE) | 0.93 | 100
Methylene chloride | 0.05 | 100
Naphthalene | 12.0 | ~
n-Propylbenzene | 3.9 | 100
o-Xylene | 0.26 | ~
Total Xylenes | 0.26 | 100
Toluene | 0.7 | 100
SVOCs (mg/kg)
Benzo(a)anthracene | 1 | 1
Benzo(a)pyrene | 1 | 1
Benzo(b)fluoranthene | 1 | 1
Benzo(k)fluoranthene | 1 | 3.9
Chrysene | 1 | 3.9
Dibenzo(a,h)anthracene | 0.33 | 0.33
Dibenzofuran | 7 | 59
Indeno(1,2,3-cd)pyrene | 0.5 | 0.5
Naphthalene | 12 | 500
Pesticides/Herbicides (mg/kg)
4,4'-DDE | 0.0033 | 8.9
4,4'-DDT | 0.0033 | 7.9
alpha-Chlordane | 0.094 | 4.2
Metals (mg/kg)
Copper | 50 | 270
Lead | 63 | 400
Mercury | 0.18 | 0.81
Selenium | 3.9 | 180
Zinc | 109 | 10,000
NYSDEC Part 375 Unrestricted SCO Exceedance
NYSDEC Part 375 Restricted Residential Use SCO Exceedance
40 0 10 25 40
SCALE IN FEET
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Langan International LLC
Collectively known as Langan
Project
ENCLAVE ON 241ST STREET DEVELOPMENT
BLOCK No. 5087 LOT No. 1
BRONX NEW YORK
Drawing Title
SOIL ANALYTICAL RESULTS MAP (2013 & 2015)
Project No. 140115301
Date 1/27/2015
Scale 1"=40'
Drawn By SEC
Checked By RJW
Submission Date 2/3/2015
Drawing No. 3
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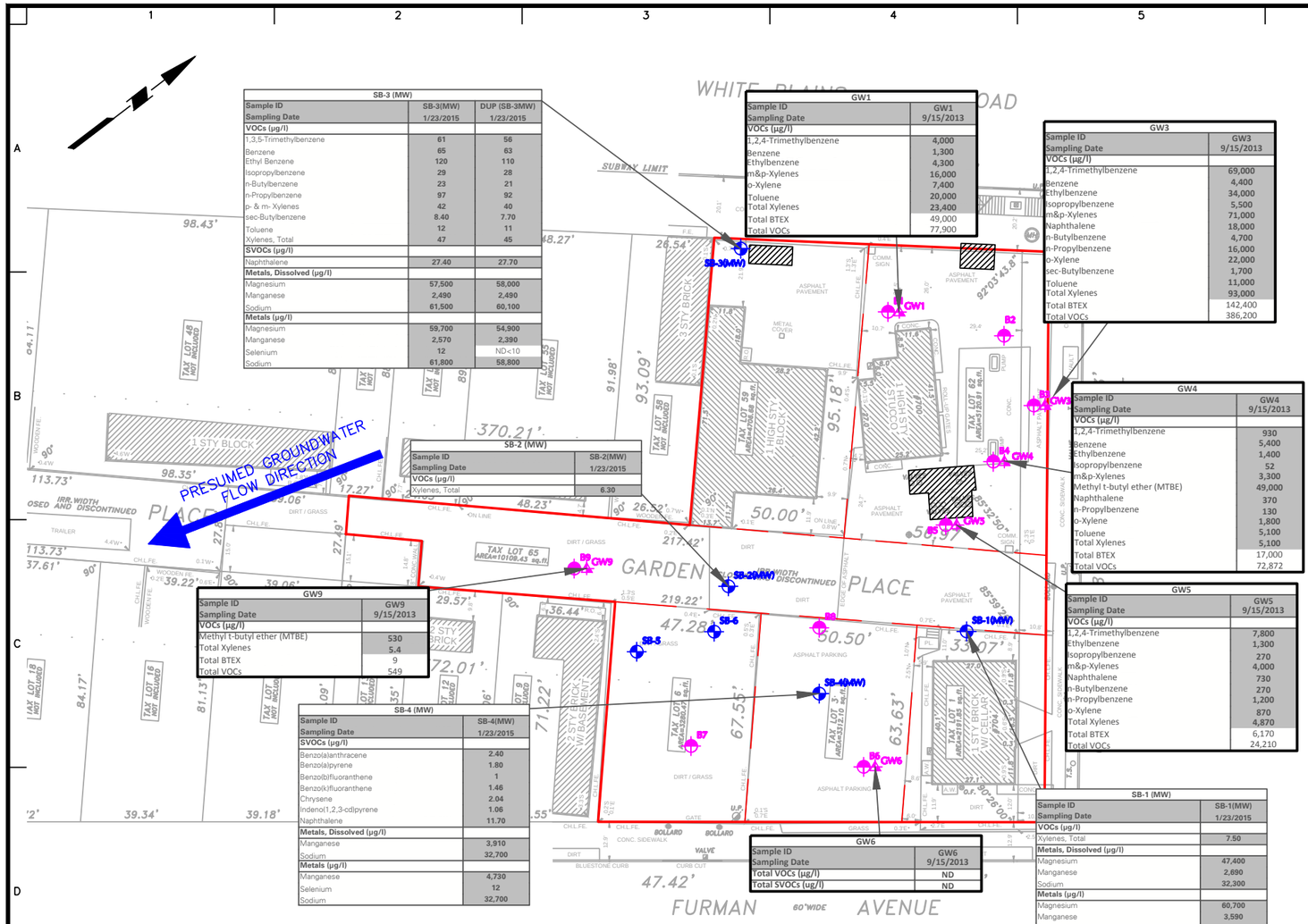
Filename: \\langan.com\data\NH\data3\140115301\Cadd Data - 140115301\2D-DesignFiles\Phase II ESI\Soil Tag Map.dwg Date: 2/3/2015 Time: 16:30 User: jhall Style Table: Langan.stb Layout: ANSIB-BL



SB-3 (MW)		
Sample ID	SB-3(MW)	DUP (SB-3MW)
Sampling Date	1/23/2015	1/23/2015
VOCs (µg/l)		
1,3,5-Trimethylbenzene	61	56
Benzene	65	63
Ethyl Benzene	120	110
Isopropylbenzene	29	28
n-Butylbenzene	23	21
n-Propylbenzene	97	92
p- & m- Xylenes	42	40
sec-Butylbenzene	8.40	7.70
Toluene	12	11
Xylenes, Total	47	45
SVOCs (µg/l)		
Naphthalene	27.40	27.70
Metals, Dissolved (µg/l)		
Magnesium	57,500	58,000
Manganese	2,490	2,490
Sodium	61,500	60,100
Metals (µg/l)		
Magnesium	59,700	54,900
Manganese	2,570	2,390
Selenium	12	ND<10
Sodium	61,800	58,800

SB-2 (MW)	
Sample ID	SB-2(MW)
Sampling Date	1/23/2015
VOCs (µg/l)	
Xylenes, Total	6.30

GW1	
Sample ID	GW1
Sampling Date	9/15/2013
VOCs (µg/l)	
1,2,4-Trimethylbenzene	4,000
Benzene	1,300
Ethylbenzene	4,300
m&p-Xylenes	16,000
o-Xylene	7,400
Toluene	20,000
Total Xylenes	23,400
Total BTEX	49,000
Total VOCs	77,900

GW3	
Sample ID	GW3
Sampling Date	9/15/2013
VOCs (µg/l)	
1,2,4-Trimethylbenzene	69,000
Benzene	4,400
Ethylbenzene	34,000
Isopropylbenzene	5,500
m&p-Xylenes	71,000
Naphthalene	18,000
n-Butylbenzene	4,700
n-Propylbenzene	16,000
o-Xylene	22,000
sec-Butylbenzene	1,700
Toluene	11,000
Total Xylenes	93,000
Total BTEX	142,400
Total VOCs	386,200

GW4	
Sample ID	GW4
Sampling Date	9/15/2013
VOCs (µg/l)	
1,2,4-Trimethylbenzene	930
Benzene	5,400
Ethylbenzene	1,400
Isopropylbenzene	52
m&p-Xylenes	3,300
Methyl t-butyl ether (MTBE)	49,000
Naphthalene	370
n-Propylbenzene	130
o-Xylene	1,800
Toluene	5,100
Total Xylenes	5,100
Total BTEX	17,000
Total VOCs	72,872

GW5	
Sample ID	GW5
Sampling Date	9/15/2013
VOCs (µg/l)	
1,2,4-Trimethylbenzene	7,800
Ethylbenzene	1,300
Isopropylbenzene	270
m&p-Xylenes	4,000
Naphthalene	730
n-Butylbenzene	270
n-Propylbenzene	1,200
o-Xylene	870
Total Xylenes	4,870
Total BTEX	6,170
Total VOCs	24,210

GW6	
Sample ID	GW6
Sampling Date	9/15/2013
Total VOCs (µg/l)	ND
Total SVOCs (ug/l)	ND

GW9	
Sample ID	GW9
Sampling Date	9/15/2013
VOCs (µg/l)	
Methyl t-butyl ether (MTBE)	530
Total Xylenes	5.4
Total BTEX	9
Total VOCs	549

SB-4 (MW)	
Sample ID	SB-4(MW)
Sampling Date	1/23/2015
SVOCs (µg/l)	
Benzo(a)anthracene	2.40
Benzo(a)pyrene	1.80
Benzo(b)fluoranthene	1
Benzo(k)fluoranthene	1.46
Chrysene	2.04
Indeno(1,2,3-cd)pyrene	1.06
Naphthalene	11.70
Metals, Dissolved (µg/l)	
Manganese	3,910
Sodium	32,700
Metals (µg/l)	
Manganese	4,730
Selenium	12
Sodium	32,700

SB-1 (MW)	
Sample ID	SB-1(MW)
Sampling Date	1/23/2015
VOCs (µg/l)	
Xylenes, Total	7.50
Metals, Dissolved (µg/l)	
Magnesium	47,400
Manganese	2,690
Sodium	32,300
Metals (µg/l)	
Magnesium	60,700
Manganese	3,590
Sodium	33,100

LEGEND:

- APPROXIMATE SITE BOUNDARY
- PREVIOUS LOT BOUNDARIES
- SB-5 — 2015 SOIL BORING LOCATIONS
- SB-40(MW) — 2015 TEMPORARY MONITORING WELL LOCATIONS
- B9 — 2013 SOIL BORING LOCATIONS
- GW9 — 2013 MONITORING WELL LOCATIONS
- GPR ANOMALY INDICATIVE OF UST
- GW3 9/15/2013 — 2013 INVESTIGATION ANALYTICAL DATA

NOTES:

1. SURVEY CONDUCTED BY PERFECT POINT LAND SURVEYING RT ON MARCH 27, 2014.
2. GROUNDWATER SAMPLE ANALYTICAL RESULTS ARE COMPARED TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) TECHNICAL AND OPERATIONAL GUIDANCE SERIES (TOGS) 1.1.1 AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES FOR CLASS GA WATER
3. ONLY ANALYTES WITH EXCEEDANCES ARE SHOWN.
4. NYSDEC TOGS 1.1.1 AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES EXCEEDANCES ARE BOLDED AND SHADED.
5. UST – UNDERGROUND STORAGE TANK
6. VOC – VOLATILE ORGANIC COMPOUND
7. UG/L – MICROGRAM PER LITER
8. "~" CRITERIA DOES NOT EXIST

Analyte	NYSEC TOGS Standards and Guidance Values - GA
VOCs (µg/l)	
1,2,4-Trimethylbenzene	5
1,3,5-Trimethylbenzene	5
Benzene	1
Ethylbenzene	5
Isopropylbenzene	5
m&p-Xylenes	5
Methyl t-butyl ether (MTBE)	10
Naphthalene	10
n-Butylbenzene	5
n-Propylbenzene	5
o-Xylene	5
sec-Butylbenzene	5
Toluene	5
Total Xylenes	5
SVOCs (µg/l)	
Benzo(a)anthracene	0.002
Benzo(a)pyrene	0.002
Benzo(b)fluoranthene	0.002
Benzo(k)fluoranthene	0.002
Chrysene	0.002
Indeno(1,2,3-cd)pyrene	0.002
Naphthalene	10
Metals (µg/l)	
Magnesium	35,000
Manganese	300
Selenium	10
Sodium	20,000

40 0 10 25 40

SCALE IN FEET

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Collectively known as Langan

Project: ENCLAVE ON 241ST STREET DEVELOPMENT
BLOCK No. 5087 LOT No. 1
BRONX NEW YORK

Drawing Title: GROUNDWATER ANALYTICAL RESULTS MAP (2013 & 2015)

Project No. 140115301
Date 1/27/2015
Scale 1"=30'
Drawn By SEC | Checked By RJW
Submission Date 2/3/2015
Drawing No. 4

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LIMITED PHASE II ENVIRONMENTAL SITE INVESTIGATION REPORT

LANGAN

Technical Excellence
Practical Experience
Client Responsiveness

3 February 2015

Jonathan Seplowitz
Enclave on 241 Street LLC
2975 Westchester Avenue
Purchase, New York 10577

Re: Limited Phase II Environmental Site Investigation Report
714 East 241st Street
Bronx, New York
Langan Project No.: 140115301

Dear Mr. Seplowitz,

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C. (Langan) prepared this report to document the results of the Limited Phase II Environmental Site Investigation (ESI) performed on behalf of Enclave on 241 Street LLC (The "Owner") for the property located at 714 East 241st Street in the Wakefield section of the Bronx, New York ("Subject Property"). The Subject Property (also identified as Tax Block 5087; Lots 1, 3, 6, 59, 62, and p/o 65) is comprised of an approximate 24,060-square-foot irregularly shaped lot and includes approximately 100 feet of frontage along White Plains Road, 185 feet of frontage along East 241st Street, and 135 feet of frontage along Furman Avenue. This limited investigation included a geophysical survey and soil and groundwater sampling in the areas not previously investigated. The Subject Property is subject to New York State Department of Environmental Conservation (NYSDEC) review under the Spills Program (Spill No. 12-14956). This report describes the sampling methodology, field observations, and analytical results of the subsurface investigation.

PREVIOUS ENVIRONMENTAL INVESTIGATON

A Phase II Subsurface Investigation was implemented on the Subject Property on 15 January 2013. The investigation included completion of a geophysical survey, installation of nine soil borings (B1 through B9) and six temporary groundwater monitoring wells (GW1, GW3 through GW6, and GW9), and collection of ten grab soil samples and six groundwater samples. The analytical results of the January 2013 Phase II investigation are shown on Figures 3 and 4. The findings of this investigation are summarized below:

- The geophysical survey identified the two functioning USTs in the northern portion of the Site as well as a potential UST (suspected to be closed-in-place) located in the northwest portion of the Site.
- Soil Impacts: The following constituents were detected in soil at concentrations that exceed their respective Unrestricted Use SCOs:
    - Nine VOCs, including acetone, benzene, ethylbenzene, methyl t-butyl ethere (MTBE), n-propylbenzene, o-xylene/total xylene, toluene, 1,2,4-trimethylbenzene, and 1,3,5-trimethylbenzene.
    - One SVOC, naphthalene.
- Groundwater Impacts: The following constituents were detected in groundwater at concentrations exceeding TOGS AWQS.
    - Fifteen VOCs, including benzene, ethylbenzene, isopropylbenzene, m&p-xylenes, MTBE, naphthalene, n-butylbenzene, n-propylbenzene, o-xylene, p-isopropyltoluene, sec-butylbenzene, toluene, 1,2,4-trimethylbenzene, and 1,2-dibromoethane.

FIELD INVESTIGATION

Langan implemented the field investigation on 23 January 2015. The field investigation included completion of a geophysical survey, six soil borings, installation of four temporary groundwater monitoring wells, collection of 12 grab soil samples (including one duplicate sample), and collection of five groundwater samples (including one duplicate sample). Soil and groundwater sampling procedures and results are discussed below. A summary of the environmental samples laboratory analytical data is provided in Tables 1 through 3 and all analytical results are shown on Figures 3 and 4. All samples were analyzed by a NYSDOH Environmental Laboratory Approval Program (ELAP)-certified laboratory.

New York City Transit Authority (NYCTA) Approval

The active NYCTA #2 rail corridor and station platform are allocated along the northwest property line. Per the requirements of NYCTA, Langan prepared a letter of No Impact request to NYCTA, which included plans showing the as-built conditions of the rail structures surrounding the Subject Property for the proposed subsurface investigation. NYCTA granted the Letter of No Impact on 13 January 2015.

Geophysical Survey

The geophysical survey was completed by NOVA Geophysical Services (NOVA) of Douglaston, New York using electromagnetic surveying equipment and ground penetrating radar (GPR). The

purpose of the geophysical survey was to complete utility markouts at the proposed test boring locations as well as to attempt to locate subsurface structures identified in previous reports (USTs and oil/water separator). The geophysical report and associated images and map are provided as Attachment B.

Soil Investigation

Six soil borings (SB-1 through SB-6) were installed by Aquifer Drilling and Testing, Inc. (ADT) of Mineola, New York under the supervision of a Langan field engineer on 23 January 2015. The soil boring locations are presented on Figure 2. The borings were completed using a track-mounted Geoprobe® 6610DT direct-push drill rig equipped with a dual-tube sampling system to prevent the collapse of sidewall material as the borings are advanced to collect a core representative of the depth interval advanced. Soil samples were collected throughout each environmental boring into 4-foot macrocore sample barrels with dedicated acetate liners. Soil samples retrieved from each boring were visually classified for soil type, grain size and texture. Each soil sample was screened for total organic vapors using a photoionization detector (PID) equipped with a 10.6 electron volt (eV) lamp. Soil samples were also evaluated for visual and olfactory indications of environmental impact. Soil boring logs are provided as Attachment C.

Two discrete (grab) soil samples were collected at borings SB-1 through SB-5 for laboratory analysis: one from within the historic fill material layer and the second from either areas exhibiting visual or olfactory indications of environmental impacts or from the groundwater interface. One discrete (grab) soil sample was collected at boring SB-6 from the historic fill. Soil borings SB-1 through SB-3 were terminated at 16 feet below grade surface (bgs); soil borings SB-4 and SB-5 were terminated at 20 feet bgs; and soil boring SB-6 was terminated at 4 feet bgs. Soil samples were submitted to York Analytical Laboratories under standard chain-of-custody protocol for analysis of Part 375 volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), metals, polychlorinated biphenyls (PCBs), and pesticides. A summary of the soil samples collected for laboratory analysis is presented in Table 1. A summary of soil analytical data is presented in Table 2. Analytical reports and chain-of-custody documentation are provided in Attachment F and laboratory certification is provided in Attachment G.

Groundwater Investigation

Four of the six soil borings (SB-1 through SB-4) were each converted into temporary groundwater monitoring wells. The temporary wells were constructed to straddle the observed groundwater table, ranging from 9 to 16-feet bgs. The wells were constructed with 1-inch

diameter, threaded, flush-joint, polyvinyl chloride (PVC) casing and 10-feet of 0.01-inch slotted screens. The monitoring wells were developed with a submersible pump and dedicated polyethylene tubing until the purged water was visually clear. Well construction logs are provided in Attachment D.

One groundwater sample was collected from each new monitoring well in accordance with NYSDEC DER-10 and USEPA's *Low Flow Purging and Sampling Procedures for the Collection of Groundwater Samples from Monitoring Wells*. Before a groundwater sample was collected, the well was gauged and then continuously purged until groundwater quality parameters (pH, conductivity, turbidity, dissolved oxygen, temperature, and oxidation-reduction potential) stabilized, to the extent practicable, in accordance with the USEPA Low Flow Procedures. Stabilization is achieved when three consecutive readings of all parameters are within the limits specified in the USEPA Low Flow Procedures. A multi-parameter water quality system (Horiba U-52) was used to monitor the groundwater quality parameters during sampling. Well sampling logs are provided in Attachment E. Groundwater samples were submitted to York Laboratories for analysis of Part 375 List of VOC, SVOCs, metals, and PCBs. A summary of the groundwater samples collected for laboratory analysis is presented in Table 1. A summary of groundwater analytical data is presented in Table 3. Analytical reports and chain-of-custody documentation are provided in Attachment F and laboratory certification is provided in Attachment G.

OBSERVATIONS AND RESULTS

Geophysical Survey

The geophysical survey identified a large subsurface anomaly indicative of an underground storage tank (UST) on the northwestern edge of the Subject Property along the sidewalk of White Plains Road (on former lot 59). The anomaly measured approximately 20 feet in length and 8 feet in width and was observed at approximately 4 feet bgs. The location of the anomaly is shown in Figure 2. The geophysical survey also confirmed the locations of site utilities as well as the three previously known USTs located on the northern portion of the Subject Property.

Subsurface Observations

The stratigraphy underlying the Subject Property consists of a surficial layer of historic fill material overlying native fine- to- medium-grained sandy soil with silt and clay lenses. The surficial historic fill extended from ground surface to about 4 feet bgs and is composed of varying amounts of sand and gravel, and fragments of brick, glass, wood, and coal ash. Bedrock

was not encountered during this investigation; however, based on USGS reports, bedrock is presumed to be at a depth of approximately 140 feet bgs.

One of the seven soil borings (SB-3) was installed next to suspected UST that was discovered during the geophysical survey (see Figure 2). Petroleum-like odors and PID readings (up to 1,095 parts per million [ppm]) were observed in the soil boring at depths of approximately 10 to 16 feet bgs. To a lesser degree, olfactory evidence of petroleum-like odors was also observed in borings SB-1 through SB-3 (with PID reading up to 17.8 ppm). Soil boring logs are provided as Attachment C.

The approximate depth to groundwater is estimated at 9 to 11 feet bgs and, based on local topography, is expected to flow to the south-southwest. Potable water is provided to the Subject Property by the City of New York and is derived from surface impoundments in the Croton, Catskill, and Delaware watersheds. No free product was identified during this Limited Phase II ESI; however, a petroleum-like odor was detected during groundwater purging and sampling activities at SB-3 (MW).

Soil Sample Analytical Results

Eleven soil samples were submitted for laboratory analysis including one duplicate sample. Analytical results were compared to Part 375 Unrestricted and Restricted Use Residential-Residential Site Cleanup Objectives (SCOs). The soil analytical results are presented in Table 2 and Figure 3.

VOCs

Four VOCs, including 1,4-dioxane, acetone, methylene chloride, and total xylenes, were detected above their Unrestricted Use SCOs in samples collected from borings SB-1 through SB-4 at depths ranging from 2.5–13 feet bgs. No VOCs were detected above Restricted-Residential SCOs in soil samples collected.

SVOCs

Nine SVOCs, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, dibenzo(a,h)anthracene, dibenzofuran, indeno(1,2,3-cd)pyrene, and naphthalene were detected at concentrations above their Unrestricted Use SCOs from borings SB-1, SB-4, and SB-5 at depths ranging from 1.5–9 feet bgs. Seven of the nine SVOCs were also detected above Restricted-Residential SCOs in borings SB-1, SB-4, and SB-5.

Pesticides

Pesticides, including 4,4'-DDE, 4,4'-DDT, and alpha-chlordane, were detected at concentrations above their Unrestricted Use SCOs in boring SB-1, SB-5, and SB-6 at depths ranging from 0–3 feet bgs. No pesticides were detected above Restricted-Residential SCOs in soil samples collected.

PCBs

No PCBs were detected above SCOs in soil samples collected.

Metals

Five metals, including copper, lead, mercury, selenium, and zinc were detected at concentrations exceeding the Unrestricted Use SCOs in each of the six soil borings. Lead was also detected above its Restricted-Residential SCO in boring SB-1 at a depth of 2.5—4.5 feet bgs

Groundwater Analytical Results

Five groundwater samples (including one duplicate sample) were submitted for laboratory analysis. The groundwater analytical results were compared to the Division of Water Technical and Operational Guidance Series (TOGS) 1.1.1 Ambient Water Quality Standards and Guidance Values (SGVs) for Class GA waters. The groundwater analytical results are presented in Table 2 and Figure 4.

VOCs

Ten VOCs, including 1,3,5-trimethylbenzene, benzene, ethyl benzene, isopropylbenzene, n-butylbenzene, n-propylbenzene, p- & m- xylenes, sec-butylbenzene, toluene, and total xylenes were detected at concentrations above their TOGS SGVs in the sample collected from SB-3(MW). Total xylene was also detected at concentrations above its TOGS SGV in the samples collected from SB-1(MW) and SB-2(MW). No other VOCs were detected above TOGS SGVs in groundwater samples collected.

SVOCs

Seven SVOCs, including benzo(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, indeno(1,2,3-cd)pyrene, and naphthalene were detected at concentrations above their TOGS SGVs in the sample collected from SB-4(MW). Naphthalene

was also detected at a concentration above its TOGS SGV in the sample collected from SB-3(MW). No other SVOCs were detected above TOGS SGVs in groundwater samples collected.

PCBs

No PCBs were detected above TOGS SGVs in groundwater samples collected.

Metals

Four metals including magnesium, manganese, selenium, and sodium were detected at concentrations above their TOGS SGVs in the samples collected from SB-1(MW), SB-3(MW), and SB-4(MW). No other metals were detected above TOGS SGVs in groundwater samples collected.

CONCLUSIONS

Based on the observations and results of this investigation, we conclude the following:

- A layer of historic fill composed of varying amounts of sand and gravel, and fragments of brick, glass, wood, and coal ash was identified throughout the Subject Property with thicknesses ranging from approximately 3 to 4 feet. This fill layer contained SCO exceedances (SVOCs, metals, and pesticides) throughout the Subject Property.
- The geophysical survey identified a large subsurface anomaly indicative of an UST on the northwestern edge of the Subject Property along the sidewalk of White Plains Road. The previously unidentified anomaly measured approximately 20 feet in length and 8 feet in width and was observed at approximately 4 feet bgs. The location of the anomaly is shown in Figure 2. The geophysical survey also confirmed the locations of site utilities as well as the three previously known USTs located on the northern portion of the Subject Property.
- One of the seven soil borings (SB-3) was installed next to the suspected UST along White Plains Road that was discovered during the geophysical survey (see Figure 2). Petroleum-like odors and PID readings (up to 1,095 ppm) were observed in the soil boring at depths of approximately 10 to 16 feet bgs. Groundwater analytical sampling results from this location confirmed the presence of a petroleum contamination. To a lesser degree, olfactory evidence of petroleum-like odors were also observed in borings SB-1 through SB-3 (with PID reading up to 17.8 ppm).
- The approximate depth to groundwater is estimated at 9 to 11 feet bgs and, based on local topography, is expected to flow to the south-southwest. No free product was identified during this Limited Phase II ESI; however, a petroleum-like odor was detected

during groundwater purging and sampling activities at SB-3 (MW) and groundwater analytical sampling results from this location, confirmed the presence of a petroleum contamination.

LIMITATIONS

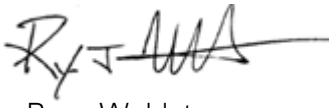
This Limited Phase II ESI report was prepared expressly for the Enclave on 241 Street LLC for the property located at 714 East 241st Street, in the Bronx, New York and for the objectives defined herein. Langan cannot assume responsibility for the use of this report for any property other than the specific site addressed in this report, or by any third party without specific written authorization from Langan.

The conclusions and opinions provided in this report are based on subsurface conditions ascertained from the analysis of a limited number of samples and from environmental reports prepared by other professionals. Actual conditions encountered may differ substantially from those presented herein and should be brought to our attention whereby we may determine how such changes may affect our conclusions.

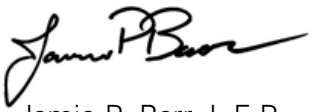
Should you have any questions regarding the findings presented in this report, please feel free to call us at 203-784-3069.

Sincerely,

Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.



Ryan Wohlstrom
Project Engineer



Jamie P. Barr, L.E.P.
Senior Associate/Vice President

Enclosures: Table 1 – Sample Summary
Table 2 – Soil Sample Analytical Results
Table 3 – Groundwater Sample Analytical Results

Figure 1 – Site Location Map
Figure 2 – Sample Location Map
Figure 3 – Soil Analytical Results Map
Figure 4 – Groundwater Analytical Results Map

Attachment A – Previous Environmental Reports (CD)
Attachment B – Geophysical Survey Report
Attachment C – Soil Boring Logs
Attachment D – Well Completion Reports
Attachment E – Groundwater Low-Flow Sampling Logs
Attachment F – Laboratory Analytical Reports with Chain of Custody Data
Attachment G – Analytical Laboratory NYSDOH Certification

TABLES

Table 1
Sample Summary
Limited Phase II ESI Report
714 East 241 Street
Bronx, New York
Langan Project No. 140115301

Sample Name	Sample Depth (ft bgs)	Date	Observations[1]	PID Reading (ppm)	Observed Depth to Groundwater[2]	Sample Analyses
Soil Samples						
SB-1 (2.5-4.5)	2.5 to 4.5	23-Jan-15	Fill	0.0	10-feet bgs	TCL VOCs, TCL SVOCs, TAL Metals, Pesticides, PCBs
SB-1 (7-9)	7 to 9	23-Jan-15	Virgin Material	17.8		
SB-2 (1.5-3.5)	1.5 to 3.5	23-Jan-15	Fill	0.0	11-feet bgs	
SB-2 (8-10)	8 to 10	23-Jan-15	Virgin Material	0.0		
SB-3 (1-3)	1 to 3	23-Jan-15	Fill	0.0	12-feet bgs	
SB-3 (11-13)	11 to 13	23-Jan-15	Virgin Material	374		
SB-4 (1.5-3.5)	1.5 to 3.5	23-Jan-15	Fill	0.2	9-feet bgs	
SB-4 (6-8)	6 to 8	23-Jan-15	Virgin Material	0.0		
SB-5 (1-3)	1 to 3	23-Jan-15	Fill	0.0	16-feet bgs	
SB-5 (14-16)	14 to 16	23-Jan-15	Virgin Material	0.0		
SB-6 (0-2)	0 to 2	23-Jan-15	Fill	0.0	NO	
DUP-1-(from SB-3 (11-13))	SB-3(MW) 11 to 13	23-Jan-15	Virgin Material	374	12-feet bgs	
Groundwater Samples						
SB-1 (MW)	--	23-Jan-15	GW	0.0	10-feet bgs	TCL VOCs, TCL SVOCs, TAL Metals, TAL Dissolved Metals (filtered), PCBs
SB-2 (MW)	--	23-Jan-15	GW	0.0	11-feet bgs	TCL VOCs, TCL SVOCs
SB-3 (MW)	--	23-Jan-15	GW	0.0	12-feet bgs	TCL VOCs, TCL SVOCs, TAL Metals, TAL Dissolved Metals (filtered), PCBs
SB-4 (MW)	--	23-Jan-15	GW	0.0	9-feet bgs	TCL VOCs, TCL SVOCs, TAL Metals, TAL Dissolved Metals (filtered), PCBs
DUP (from SB-3 (MW))	--	23-Jan-15	GW	0.0	12-feet bgs	TCL VOCs, TCL SVOCs, TAL Metals, TAL Dissolved Metals (filtered), PCBs

Notes:
1) Soil types based on field observations.
2) Groundwater depths based on field observations.

Acronyms:
BGS = Below grade surface
GW = Groundwater
NA = Not applicable
NO = Not observed
PID = Photoionization detector
PPM = Parts per million
VOCs = Volatile organic compounds
SVOCs = Semivolatile organic compounds
PCBs = Polychlorinated biphenyls
EPA = United States Environmental Protection Agency

Table 2
Soil Analytical Results - January 2015 Limited Phase II ESI
714 East 241 Street
Bronx, New York
Langan Project No.: 140115301

Parameters	NYSDEC Subpart 375-6: Remedial Program Soil Cleanup Objectives: Unrestricted Use Objectives	NYSDEC Subpart 375-6: Remedial Program Soil Cleanup Objectives: Restricted Residential	Sample ID Sample Date Sampling Depth Units Sample Medium	SB-1 (2.5-4.5) 1/23/2015 2.5'-4.5' mg/kg Fill	SB-1 (7-9) 1/23/2015 7'-9' mg/kg Sand	SB-2 (1.5-3.5) 1/23/2015 1.5'-3.5' mg/kg Fill	SB-2 (8-10) 1/23/2015 8'-10' mg/kg Sand	SB-3 (1-3) 1/23/2015 1'-3' mg/kg Fill	SB-3 (11-13) 1/23/2015 11'-13' mg/kg Sand	DUP-1 (SB-3 (11-13)) 1/23/2015 11'-13' mg/kg Sand	SB-4 (1.5-3.5) 1/23/2015 1.5'-3.5' mg/kg Fill	SB-4 (6-8) 1/23/2015 6'-8' mg/kg Sand	SB-5 (1-3) 1/23/2015 1'-3' mg/kg Fill	SB-5 (14-16) 1/23/2015 14'-16' mg/kg Sand	SB-6 (0-2) 1/23/2015 0'-2' mg/kg Fill
VOCs (mg/kg)																
1,2,4-Trimethylbenzene	3.6	52		ND<0.0023	ND<0.0021	3.20	ND<0.0018	ND<0.0019	0.46	0.45	ND<0.25	ND<0.0022	ND<0.0021	ND<0.0018	ND<0.0019
1,2-Dichloroethane	0.02	3.1		ND<0.0023	ND<0.0021	**ND<0.21**	ND<0.0018	ND<0.0019	**ND<0.18**	**ND<0.19**	**ND<0.25**	ND<0.0022	ND<0.0021	ND<0.0018	ND<0.0019
1,3,5-Trimethylbenzene	8.4	52		ND<0.0023	ND<0.0021	0.55	ND<0.0018	ND<0.0019	ND<0.18	ND<0.19	ND<0.25	ND<0.0022	ND<0.0021	ND<0.0018	ND<0.0019
1,4-Dioxane	0.1	13		ND<0.045	ND<0.085	**4.20**	ND<0.071	ND<0.076	**ND<7.30**	**ND<7.50**	**ND<10**	ND<0.090	ND<0.084	ND<0.073	ND<0.078
2-Butanone	0.12	100		ND<0.0023	0.012	**ND<0.21**	ND<0.0018	ND<0.0019	**ND<0.18**	**ND<0.19**	**ND<0.25**	0.016	ND<0.0021	ND<0.0018	ND<0.0019
Acetone	0.05	100		**0.18**	**0.059**	**ND<0.42**	ND<0.0035	ND<0.0038	**ND<0.36**	**ND<0.37**	**ND<0.50**	**0.078**	0.045	0.014	ND<0.0039
Benzene	0.06	4.8		ND<0.0023	ND<0.0021	**ND<0.21**	ND<0.0018	ND<0.0019	**ND<0.18**	**ND<0.19**	**ND<0.25**	ND<0.0022	ND<0.0021	ND<0.0018	ND<0.0019
Ethyl Benzene	1	41		0.0071	ND<0.0021	ND<0.21	ND<0.0018	0.0043	ND<0.18	ND<0.19	ND<0.25	0.0067	ND<0.0021	ND<0.0018	ND<0.0019
Methylcyclohexane	~	~		ND<0.0023	ND<0.0021	ND<0.21	ND<0.0018	ND<0.0019	1.40	1.30	ND<0.25	ND<0.0022	ND<0.0021	ND<0.0018	ND<0.0019
Methylene chloride	0.05	100		ND<0.0045	0.0047 J	**ND<0.42**	ND<0.0035	ND<0.0038	**0.44 J**	**0.42 J**	**0.80 J**	ND<0.0045	ND<0.0042	ND<0.0036	ND<0.0039
n-Butylbenzene	12	100		ND<0.0023	ND<0.0021	ND<0.21	ND<0.0018	ND<0.0019	0.45	0.51	ND<0.25	ND<0.0022	ND<0.0021	ND<0.0018	ND<0.0019
n-Propylbenzene	3.9	100		ND<0.0023	ND<0.0021	ND<0.21	ND<0.0018	ND<0.0019	0.51	0.47	ND<0.25	ND<0.0022	ND<0.0021	ND<0.0018	ND<0.0019
o-Xylene	~	~		0.018	0.0022 J	ND<0.21	ND<0.0018	0.0091	ND<0.18	ND<0.19	ND<0.25	0.015	ND<0.0021	ND<0.0018	ND<0.0019
p- & m- Xylenes	~	~		0.034	0.0051 J	0.58 J	ND<0.0035	0.020	ND<0.36	ND<0.37	ND<0.5	0.033	ND<0.0042	ND<0.0036	ND<0.0039
Tetrachloroethylene	1.3	19		ND<0.0023	ND<0.0021	ND<0.21	ND<0.0018	0.0052	ND<0.18	ND<0.19	ND<0.25	ND<0.0022	ND<0.0021	ND<0.0018	ND<0.0019
trans-1,2-Dichloroethylene	0.19	100		ND<0.0023	ND<0.0021	**ND<0.21**	ND<0.0018	ND<0.0019	ND<0.18	ND<0.19	**ND<0.25**	ND<0.0022	ND<0.0021	ND<0.0018	ND<0.0019
Vinyl Chloride	0.02	0.9		ND<0.0023	ND<0.0021	**ND<0.21**	ND<0.0018	ND<0.0019	**ND<0.18**	**ND<0.19**	**ND<0.25**	ND<0.0022	ND<0.0021	ND<0.0018	ND<0.0019
Xylenes, Total	0.26	100		0.052	0.0073 J	**0.74 J**	ND<0.0053	0.029	**ND<0.55**	**ND<0.56**	**ND<0.75**	0.048	ND<0.0063	ND<0.0055	ND<0.0058
SVOCs (mg/kg)																
1,1'-Biphenyl	~	~		ND<0.046	ND<0.046	ND<0.11	ND<0.024	ND<0.047	ND<0.023	ND<0.023	3.11	ND<0.026	ND<0.049	ND<0.023	ND<0.048
1,2-Dichlorobenzene	1.1	100		ND<0.046	ND<0.046	ND<0.11	ND<0.024	ND<0.047	ND<0.023	ND<0.023	**ND<1.18**	ND<0.026	ND<0.049	ND<0.023	ND<0.048
2,4-Dinitrophenol	~	~		0.091	ND<0.092	ND<0.22	ND<0.048	ND<0.093	ND<0.045	ND<0.046	ND<2.36	ND<0.052	ND<0.097	ND<0.045	ND<0.096
2,4-Dinitrotoluene	~	~		ND<0.046	ND<0.046	ND<0.11	ND<0.024	ND<0.047	ND<0.023	ND<0.023	ND<1.18	ND<0.026	0.0635 J	ND<0.023	ND<0.048
2-Methylnaphthalene	~	~		0.11	ND<0.046	0.357	ND<0.024	0.0783 J	1.08	0.847	17.40	0.134	ND<0.049	ND<0.023	ND<0.048
2-Methylphenol	0.33	100		ND<0.046	ND<0.046	ND<0.11	ND<0.024	ND<0.047	ND<0.023	ND<0.023	**ND<1.18**	ND<0.026	ND<0.049	ND<0.023	ND<0.048
Acenaphthene	20	100		0.0541 J	0.116	ND<0.11	ND<0.024	ND<0.047	0.0283 J	ND<0.023	4.98	0.0358 J	0.19 J	ND<0.023	ND<0.048
Acenaphthylene	100	100		0.315	0.363	0.325	ND<0.024	ND<0.047	ND<0.023	ND<0.023	12.20	0.0898	0.0875	ND<0.023	ND<0.048
Anthracene	100	100		0.202	0.561	0.176 J	ND<0.024	0.103	ND<0.023	ND<0.023	19.10	0.15	0.394	ND<0.023	ND<0.048
Benzo(a)anthracene	1	1		0.904	0.814	0.179 J	ND<0.024	0.387	0.0769	0.0379 J	**14**	0.272	**1.03**	0.0334 J	0.197
Benzo(a)pyrene	1	1		0.454	0.637	0.183 J	ND<0.024	0.250	0.0494	0.0310 J	**6.43**	0.178	0.371	ND<0.023	0.143
Benzo(b)fluoranthene	1	1		0.456	0.774	0.255	ND<0.024	0.297	0.0875	0.0335 J	**7.15**	0.148	0.305	ND<0.023	0.119
Benzo(g,h,i)perylene	100	100		0.787	0.656	0.635	ND<0.024	0.179	ND<0.023	ND<0.023	6.73	0.0769	0.243	ND<0.023	0.0752 J
Benzo(k)fluoranthene	0.8	3.9		0.638	**0.807**	0.197 J	ND<0.024	0.351	0.108	0.0331 J	**10**	0.204	0.443	ND<0.023	0.161
Bis(2-ethylhexyl)phthalate	~	~		0.337	ND<0.046	ND<0.11	ND<0.024	ND<0.047	ND<0.023	ND<0.023	ND<1.18	ND<0.026	0.119	ND<0.023	ND<0.048
Carbazole	~	~		0.057 J	0.0701 J	ND<0.11	ND<0.024	0.0835 J	ND<0.023	ND<0.023	7.96	0.067	ND<0.049	ND<0.023	ND<0.048
Chrysene	1	3.9		**1.02**	**1.92**	0.686	ND<0.024	0.843	0.103	0.0484	**31.3**	0.27	**1.06**	0.0367 J	0.219
Dibenzo(a,h)anthracene	0.33	0.33		0.289	0.212	ND<0.11	ND<0.024	0.0731 J	ND<0.023	ND<0.023	**3.85**	0.0391 J	0.114	ND<0.023	ND<0.048
Dibenzofuran	7	59		ND<0.046	0.0782 J	ND<0.11	ND<0.024	0.0731 J	ND<0.023	ND<0.023	**12.50**	0.0928	0.123	ND<0.023	ND<0.048
Di-n-butyl phthalate	~	~		ND<0.046	ND<0.046	0.521	ND<0.024	ND<0.047	ND<0.023	ND<0.023	ND<1.18	ND<0.026	ND<0.049	ND<0.023	ND<0.048
Fluoranthene	100	100		0.771	2.64	0.573	ND<0.024	1.58 J	0.217	0.0918	61	0.617	1.88	0.0737	0.361
Fluorene	30	100		0.175	0.337	ND<0.11	ND<0.024	0.0768	0.0425 J	ND<0.023	26.50	0.207	0.355	ND<0.023	ND<0.048
Hexachlorobenzene	0.33	1.2		ND<0.046	ND<0.046	ND<0.11	ND<0.024	ND<0.047	ND<0.023	ND<0.023	**ND<1.18**	ND<0.026	ND<0.049	ND<0.023	ND<0.048
Indeno(1,2,3-cd)pyrene	0.5	0.5		**0.629**	**0.589**	0.252	ND<0.024	0.176	0.0269 J	ND<0.023	**6.90**	0.0794	0.235	ND<0.023	ND<0.048
Naphthalene	12	100		ND<0.046	ND<0.046	0.213 J	ND<0.024	0.0909 J	ND<0.023	0.184	**15.40**	0.135	ND<0.049	ND<0.023	ND<0.048
Pentachlorophenol	0.8	6.7		ND<0.046	0.18	ND<0.11	ND<0.024	ND<0.047	ND<0.023	ND<0.023	**ND<1.18**	ND<0.026	ND<0.049	ND<0.023	ND<0.048
Phenanthrene	100	100		0.229	0.517	0.475	ND<0.024	1.44	0.305	0.116	90.30	0.816	1.79	0.0802	0.226
Phenol	0.33	100		ND<0.046	ND<0.046	ND<0.11	ND<0.024	ND<0.047	ND<0.023	ND<0.023	**ND<1.18**	ND<0.026	ND<0.049	ND<0.023	ND<0.048
Pyrene	100	100		2.43	2.62	0.725	ND<0.024	1.39	0.210	0.0914	48.40	0.512	2.26	0.0632	0.355
Pesticides/Herbicides (mg/kg)																
4,4'-DDE	0.0033	8.9		ND<0.0027	ND<0.0027	ND<0.0026	ND<0.0029	ND<0.0028	ND<0.0027	ND<0.0027	ND<0.0028	ND<0.0031	**0.00476**	ND<0.0027	**0.00672**
4,4'-DDT	0.0033	7.9		ND<0.0027	ND<0.0027	ND<0.0026	ND<0.0029	**0.00425**	ND<0.0027	ND<0.0027	ND<0.0028	ND<0.0031	**0.0109**	ND<0.0027	**0.0338**
alpha-Chlordane	0.094	4.2		ND<0.0027	ND<0.0027	0.00464	ND<0.0029	ND<0.0028	ND<0.0027	ND<0.0027	ND<0.0028	ND<0.0031	**0.111**	0.026	0.0426
Chlordane, total	~	~		ND<0.11	ND<0.11	ND<0.11	ND<0.115	ND<0.111	ND<0.108	ND<0.108	ND<0.11	ND<0.124	1.47	0.389	0.567
gamma-Chlordane	~	~		ND<0.0027	ND<0.0027	0.00488	ND<0.0029	ND<0.0028	ND<0.0027	ND<0.0027	ND<0.0028	ND<0.0031	0.114	0.0299	0.0418
Heptachlor	0.042	2.1		ND<0.0027	ND<0.0027	ND<0.0026	ND<0.0029	ND<0.0028	ND<0.0027	ND<0.0027	ND<0.0028	ND<0.0031	0.0091	ND<0.0027	ND<0.0029
Heptachlor epoxide	~	~		ND<0.0027	ND<0.0027	ND<0.0026	ND<0.0029	ND<0.0028	ND<0.0027	ND<0.0027	ND<0.0028	ND<0.0031	ND<0.0029	ND<0.0027	0.00872
PCBs (mg/kg)																
Aroclor 1260	~	~		ND<0.027	ND<0.028	0.0585	ND<0.029	ND<0.028	ND<0.027	ND<0.027	ND<0.028	ND<0.031	ND<0.029	ND<0.027	0.0881
Total PCBs	0.1	1		ND<0.027	ND<0.028	0.0585	ND<0.029	ND<0.028	ND<0.027	ND<0.027	ND<0.028	ND<0.031	ND<0.029	ND<0.027	0.0881
Metals (mg/kg)																
Aluminum	~	~		8,510	7,860	8,140	13,000	9,410	5,210	5,950	9,240	16,600	9,400	6,400	12,400
Arsenic	13	16		6.43	4.48	4.80	4.33	5.92	2.45	2.47	5.40	4.12	6.37	3.58	5.57
Barium	350	400		137	122	186	88.80	110	36.10	43.70	169	86.90	142	53.60	114
Cadmium	2.5	4.3		ND<0.33	ND<0.33	ND<0.32	ND<0.35	ND<0.34	ND<0.33	ND<0.33	ND<0.34	ND<0.37	0.50	ND<0.33	ND<0.35
Calcium	~	~		11,500	9,550	8,910	2,610	11,900	3,630	2,180	3,210	3,220	35,100	13,300	5,660
Chromium	~	~		23.80	16.70	20	23.40	17.80	10.20	10.80	19.90	26.70	20.30	12.80	22.90
Cobalt	~	~		7.64	6.60	6.90	7.74	6.79	5.30	4.74	7.47	6.81	8.29	6.88	7.86
Copper	50	270		**60.20**	39.70	**68.10**	19.50	**55.20**	16.60	15.40	37.70	14.10	**112**	18.10	31.40
Iron	~	~		16,600	14,900	15,500	18,700	15,800	11,900	12,000	15,300	18,300	18,500	15,500	19,100
Lead	63	400		**417**	**234**	**322**	8.39	**221**	9.13	6.75	**249**	20.80	**256**	12.40	**224**
Magnesium	~	~		6,170	5,560	3,530	4,230	8,000	2,780	2,490	3,290	3,730	6,940	5,840	3,580
Manganese	1600	2000		233	230	249	220	303	137	153	183	288	251	291	328
Mercury	0.18	0.81		0.13	**0.182**	**0.2**	ND<0.035	0.144	ND<0.033	ND<0.033	0.141	0.0926	0.15	ND<0.033	0.176
Nickel	30	310		22.60	16.90	18.80	21	18	15.10	14.60	18	18.40	21.30	17.80	19.30
Potassium	~	~		1,690	1,500	1,550	1,230	1,380	1,460	1,660	1,410	913	2,590	1,810	1,420
Selenium	3.9	180		**3.95**	3.19	**4.16**	3.08	3.46	2.38	2.76	3.63	**4.15**	**4.08**	3.20	**4.06**
Sodium	~	~		245	177	196	101	128	144	182	135	85.80	193	163	130
Vanadium	~	~		26.80	23.50	27.10	29.10	24.30	16.10	14.80	26.10	34.50	30.40	18.20	29
Zinc	109	10000		**427**	**271**	**193**	44.90	**275**	24.50	22.40	**147**	42.80	**500**	39.80	**126**

Notes:
ND = Not detected above laboratory reporting limits
NE = Not established
NT = Not tested
J = Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration

Indicates exceedance of the Unrestricted Use Objectives
Indicates exceedance of the Restricted Residential Soil Cleanup Objectives
Indicates laboratory reporting limits were above the applicable criteria

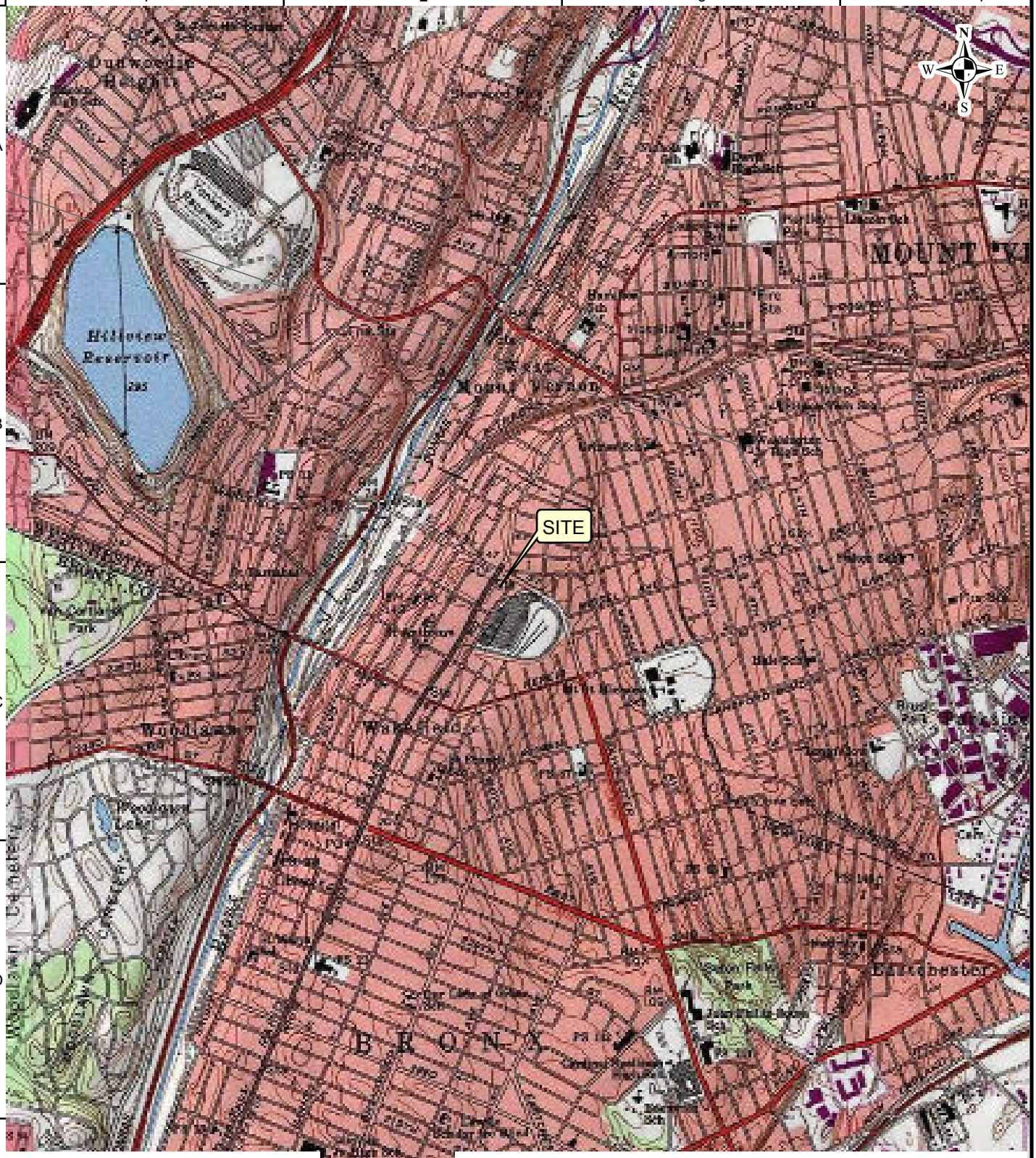
Table 3
Groundwater Analytical Results - January 2015 Limited Phase II ESI
714 East 241 Street
Bronx, New York
Langan Project No.: 140115301

Parameters	NYSDEC TOGS Standards and Guidance Values - GA	Sample ID Sample Date Units Sample Medium	SB-1(MW) 1/23/2015 µg/l Groundwater	SB-2(MW) 1/23/2015 µg/l Groundwater	SB-3(MW) 1/23/2015 µg/l Groundwater	DUP (SB-3MW) 1/23/2015 µg/l Groundwater	SB-4(MW) 1/23/2015 µg/l Groundwater
VOCs (µg/l)							
1,1,2-Trichloroethane	1		ND<0.20	ND<0.20	**ND<2**	**ND<2**	ND<0.20
1,2,3-Trichloropropane	0.04		**ND<0.20**	**ND<0.20**	**ND<2**	**ND<2**	**ND<0.20**
1,2,4-Trimethylbenzene	5		ND<0.20	1.90	ND<2	ND<2	ND<0.20
1,2-Dibromo-3-chloropropane	0.04		**ND<0.20**	**ND<0.20**	**ND<2**	**ND<2**	**ND<0.20**
1,2-Dichloroethane	0.6		ND<0.20	ND<0.20	**ND<2**	**ND<2**	ND<0.20
1,2-Dichloropropane	1		ND<0.20	ND<0.20	**ND<2**	**ND<2**	ND<0.20
1,3,5-Trimethylbenzene	5		ND<0.20	0.41 J	**61**	**56**	0.29 J
2-Butanone	50		ND<0.20	3.20	ND<2	ND<2	ND<0.20
4-Methyl-2-pentanone	~		ND<0.20	4	ND<2	ND<2	ND<0.20
Acetone	50		11	9	ND<10	ND<10	ND<1
Benzene	1		ND<0.20	0.97	**65**	**63**	0.33 J
Chloromethane	5		ND<0.20	3.50	ND<2	3 J	ND<0.20
cis-1,3-Dichloropropylene	0.4		ND<0.20	ND<0.20	**ND<2**	**ND<2**	ND<0.20
Cyclohexane	~		ND<0.20	ND<0.20	180	180	ND<0.20
Ethyl Benzene	5		1.20	1	**120**	**110**	0.54
Hexachlorobutadiene	0.5		ND<0.20	ND<0.20	**ND<2**	**ND<2**	ND<0.20
Isopropylbenzene	5		ND<0.20	ND<0.20	**29**	**28**	ND<0.20
Methyl tert-butyl ether (MTBE)	10		1.50	ND<0.20	ND<2	ND<2	ND<0.20
Methylcyclohexane	~		ND<0.20	ND<0.20	110	110	ND<0.20
Methylene chloride	5		1	1	**ND<10**	**ND<10**	1
n-Butylbenzene	5		ND<0.20	ND<0.20	**23**	**21**	ND<0.20
n-Propylbenzene	5		ND<0.20	ND<0.20	**97**	**92**	0.47 J
o-Xylene	5		2.50	2.30	5	4.60 J	0.53
p- & m- Xylenes	5		5	4.10	**42**	**40**	1
p-Isopropyltoluene	5		ND<0.20	ND<0.20	3.90 J	3.70 J	ND<0.20
sec-Butylbenzene	5		ND<0.20	ND<0.20	**8.40**	**7.70**	ND<0.20
Toluene	5		ND<0.20	2.50	**12**	**11**	0.22 J
trans-1,3-Dichloropropylene	0.4		ND<0.20	ND<0.20	**ND<2**	**ND<2**	ND<0.20
Xylenes, Total	5		**7.50**	**6.30**	**47**	**45**	1.60
SVOCs (µg/l)							
1,2-Dichlorobenzene	3		ND<2.70	**ND<3.45**	ND<2.50	ND<2.50	**ND<5**
1,3-Dichlorobenzene	3		ND<2.70	**ND<3.45**	ND<2.50	ND<2.50	**ND<5**
1,4-Dichlorobenzene	3		ND<2.70	**ND<3.45**	ND<2.50	ND<2.50	**ND<5**
2,4,5-Trichlorophenol	1		**ND<2.70**	**ND<3.45**	**ND<2.50**	**ND<2.50**	**ND<5**
2,4,6-Trichlorophenol	1		**ND<2.70**	**ND<3.45**	**ND<2.50**	**ND<2.50**	**ND<5**
2-Chlorophenol	1		**ND<2.70**	**ND<3.45**	**ND<2.50**	**ND<2.50**	**ND<5**
2-Methylnaphthalene	~		ND<2.70	ND<3.45	33.20	33.50	7.42 J
2-Methylphenol	1		**ND<2.70**	**ND<3.45**	**ND<2.50**	**ND<2.50**	**ND<5**
2-Nitrophenol	1		**ND<2.70**	**ND<3.45**	**ND<2.50**	**ND<2.50**	**ND<5**
4-Chloro-3-methylphenol	1		**ND<2.70**	**ND<3.45**	**ND<2.50**	**ND<2.50**	**ND<5**
4-Nitrophenol	1		**ND<2.70**	**ND<3.45**	**ND<2.50**	**ND<2.50**	**ND<5**
Acenaphthene	20		ND<0.054	ND<0.069	ND<0.050	0.080	0.94
Acenaphthylene	~		ND<0.054	ND<0.069	0.070	0.080	2.36
Anthracene	50		ND<0.054	ND<0.069	0.11	0.090	2.08
Benzo(a)anthracene	0.002		**ND<0.054**	**ND<0.069**	**ND<0.050**	**ND<0.050**	**2.40**
Benzo(a)pyrene	0.002		**ND<0.054**	**ND<0.069**	**ND<0.050**	**ND<0.050**	**1.80**
Benzo(b)fluoranthene	0.002		**ND<0.054**	**ND<0.069**	**ND<0.050**	**ND<0.050**	**1**
Benzo(g,h,i)perylene	~		ND<0.054	ND<0.069	ND<0.050	ND<0.050	1.08
Benzo(k)fluoranthene	0.002		**ND<0.054**	**ND<0.069**	**ND<0.050**	**ND<0.050**	**1.46**
Bis(2-chloroethyl)ether	1		**ND<2.70**	**ND<3.45**	**ND<2.50**	**ND<2.50**	**ND<5**
Bis(2-ethylhexyl)phthalate	5		ND<0.54	1.50	1.24	0.79	1.02
Chrysene	0.002		**ND<0.054**	**ND<0.069**	**ND<0.050**	**ND<0.050**	**2.04**
Dibenzo(a,h)anthracene	~		ND<0.054	ND<0.069	ND<0.050	ND<0.050	0.56
Fluoranthene	50		ND<0.054	ND<0.069	ND<0.050	ND<0.050	6.60
Fluorene	50		ND<0.054	0.0966	ND<0.050	0.13	3.94
Hexachlorobutadiene	0.5		**ND<0.54**	**ND<0.69**	ND<0.50	ND<0.50	**ND<1**
Indeno(1,2,3-cd)pyrene	0.002		**ND<0.054**	**ND<0.069**	**ND<0.050**	**ND<0.050**	**1.06**
Naphthalene	10		ND<0.054	0.828	**27.40**	**27.70**	**11.70**
Nitrobenzene	0.4		ND<0.27	ND<0.35	ND<0.25	ND<0.25	**ND<0.50**
Phenanthrene	50		ND<0.054	0.166	0.15	0.13	12.60
Phenol	1		**ND<2.70**	**ND<3.45**	**ND<2.50**	**ND<2.50**	**ND<5**
Pyrene	50		ND<0.054	ND<0.069	ND<0.050	ND<0.050	5.94
PCBs (µg/l)							
Total PCBs	0.09		**ND<0.118**	NT	ND<0.050	ND<0.050	ND<0.051
Metals, Dissolved (mg/l)							
Aluminum	~		1,900	NT	262	288	330
Antimony	3		**ND<5**	NT	**ND<5**	**ND<5**	**ND<5**
Barium	1000		186	NT	129	177	111
Calcium	~		89,200	NT	117,000	117,000	124,000
Chromium	50		5	NT	ND<5	ND<5	ND<5
Cobalt	~		8	NT	ND<5	ND<5	ND<5
Copper	200		10	NT	ND<3	ND<3	ND<3
Iron	~		2,290	NT	1,840	14,600	70
Magnesium	35000		**47,400**	NT	**57,500**	**58,000**	23,700
Manganese	300		**2,690**	NT	**2,490**	**2,490**	**3,910**
Nickel	100		18	NT	ND<5	ND<5	ND<5
Potassium	~		7,880	NT	4,150	4,020	7,020
Selenium	10		ND<10	NT	10	10	ND<10
Sodium	20000		**32,300**	NT	**61,500**	**60,100**	**32,700**
Zinc	2000		76	NT	ND<10	17	17
Metals (mg/l)							
Aluminum	~		12,300	NT	1,140	1,090	7,340
Antimony	3		**ND<5**	NT	**ND<5**	**ND<5**	**ND<5**
Arsenic	25		ND<4	NT	5	ND<4	ND<4
Barium	1000		307	NT	191	177	218
Calcium	~		107,000	NT	118,000	109,000	126,000
Chromium	50		34	NT	ND<5	ND<5	20
Cobalt	~		20	NT	ND<5	ND<5	12
Copper	200		25	NT	5	8	19
Iron	~		20,200	NT	15,800	14,400	12,600
Lead	25		12	NT	ND<3	3	14
Magnesium	35000		**60,700**	NT	**59,700**	**54,900**	27,800
Manganese	300		**3,590**	NT	**2,570**	**2,390**	**4,730**
Nickel	100		47	NT	7	7	25
Potassium	~		9,920	NT	4,510	4,300	8,320
Selenium	10		ND<10	NT	**12**	ND<10	**12**
Sodium	20000		**33,100**	NT	**61,800**	**58,800**	**32,700**
Vanadium	~		34	NT	ND<10	ND<10	22
Zinc	2000		171	NT	23	30	63

Notes:
ND = Not detected above laboratory reporting limits
NE = Not established
NT = Not tested
J = Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL); therefore, the result is an estimated concentration

Indicates exceedance of the Groundwater Quality Standards Part 703
Indicates laboratory reporting limits were above the applicable criteria

FIGURES



Notes:
Topographic basemap is provided through Langan's Esri ArcGIS software licensing and ArcGIS online © 2011 National Geographic Society, i-cubed.

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Langan Engineering & Environmental Services, Inc.
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Langan International LLC

Collectively known as Langan

Project
ENCLAVE ON 241ST STREET DEVELOPMENT
BLOCK No. 5087 LOT No. 1
BRONX NEW YORK

Drawing Title
SITE LOCATION MAP

Project No.	140115301
Date	1/27/15
Scale	1"=2,000'
Drawn By	SEC
Submission Date	2/3/2015

Figure 1

© 2013 Langan

Path: \\Langan.com\data\NH\data3\140115301\Archive\ArcMap Documents\Figure 1 USGS Site Location Map NYNH.mxd Date: 2/2/2015 User: sclout Time: 12:53:28 PM



LEGEND:

- APPROXIMATE SITE BOUNDARY
- PREVIOUS LOT BOUNDARIES
- SB-5 2015 SOIL BORING LOCATIONS
- SB-4(MW) 2015 TEMPORARY MONITORING WELL LOCATIONS
- B9 2013 SOIL BORING LOCATIONS
- GW9 2013 MONITORING WELL LOCATIONS
- GPR ANOMALY INDICATIVE OF UST

NOTES:

1. SURVEY CONDUCTED BY PERFECT POINT LAND SURVEYING RT ON MARCH 27, 2014.
2. THIS PLAN SHOULD BE VIEWED AS A COLOR COPY AS THE BORING LOCATIONS AND BOUNDARIES ARE COLOR COORDINATED.

40 0 10 25 40
SCALE IN FEET

WARNING: IT IS A VIOLATION OF THE NYS EDUCATION LAW ARTICLE 145 FOR ANY PERSON, UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS ITEM IN ANY WAY.

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Langan International LLC
Collectively known as Langan

Project
ENCLAVE ON 241ST STREET DEVELOPMENT
BLOCK No. 5087 LOT No. 1
BRONX NEW YORK

Drawing Title
SAMPLE LOCATION MAP

Project No.	Drawing No.
140115301	2
Date 1/27/2015	
Scale 1"=40'	
Drawn By SEC / Checked By RJW	
Submission Date 2/3/2015	

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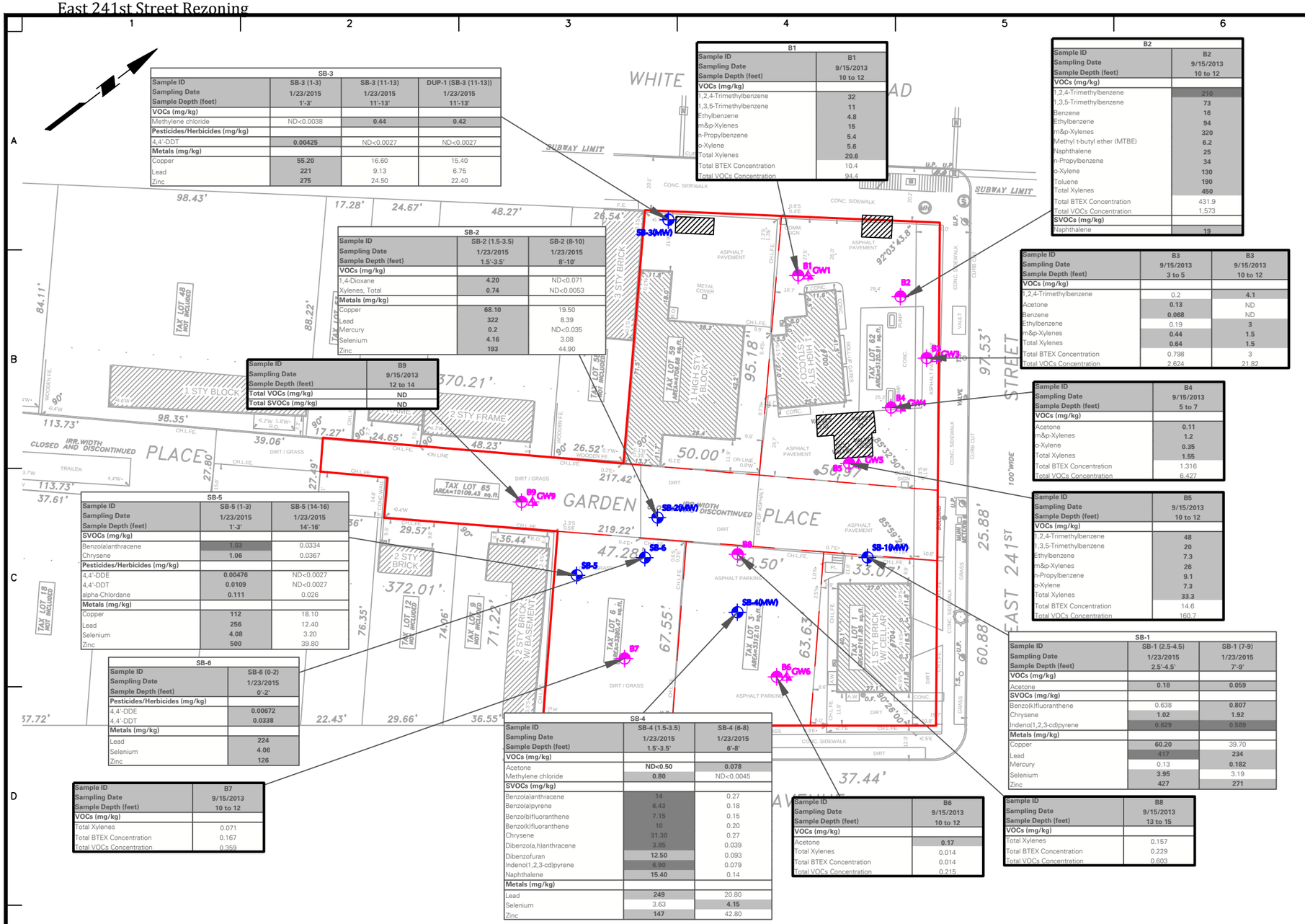
File name: \\langan.com\data\NH\data3\140115301\Cadd Data - 140115301\2D-DesignFiles\Phase II ESI\Sample Location Plan.dwg Date: 2/3/2015 Time: 14:51 User: jhall Style Table: Langan.stb Layout: ANSIB-BL



SB-3			
Sample ID	SB-3 (1-3)	SB-3 (11-13)	DUP-1 (SB-3 (11-13))
Sampling Date	1/23/2015	1/23/2015	1/23/2015
Sample Depth (feet)	1'-3'	11'-13'	11'-13'
VOCs (mg/kg)			
Methylene chloride	ND<0.0038	**0.44**	**0.42**
Pesticides/Herbicides (mg/kg)			
4,4'-DDT	**0.00425**	ND<0.0027	ND<0.0027
Metals (mg/kg)			
Copper	**55.20**	16.60	15.40
Lead	**221**	9.13	6.75
Zinc	**275**	24.50	22.40

B1	
Sample ID	B1
Sampling Date	9/15/2013
Sample Depth (feet)	10 to 12
VOCs (mg/kg)	
1,2,4-Trimethylbenzene	32
1,3,5-Trimethylbenzene	11
Ethylbenzene	4.8
m&p-Xylenes	15
n-Propylbenzene	5.4
o-Xylene	5.6
Total Xylenes	**20.6**
Total BTEX Concentration	10.4
Total VOCs Concentration	94.4

B2	
Sample ID	B2
Sampling Date	9/15/2013
Sample Depth (feet)	10 to 12
VOCs (mg/kg)	
1,2,4-Trimethylbenzene	210
1,3,5-Trimethylbenzene	73
Benzene	16
Ethylbenzene	94
m&p-Xylenes	320
Methyl t-butyl ether (MTBE)	6.2
Naphthalene	25
n-Propylbenzene	34
o-Xylene	130
Toluene	190
Total Xylenes	450
Total BTEX Concentration	431.9
Total VOCs Concentration	1,573
SVOCs (mg/kg)	
Naphthalene	19

SB-2		
Sample ID	SB-2 (1.5-3.5)	SB-2 (8-10)
Sampling Date	1/23/2015	1/23/2015
Sample Depth (feet)	1.5'-3.5'	8'-10'
VOCs (mg/kg)		
1,4-Dioxane	**4.20**	ND<0.071
Xylenes, Total	**0.74**	ND<0.0053
Metals (mg/kg)		
Copper	**68.10**	19.50
Lead	**322**	8.39
Mercury	**0.2**	ND<0.035
Selenium	**4.16**	3.08
Zinc	**193**	44.90

B3		
Sample ID	B3	B3
Sampling Date	9/15/2013	9/15/2013
Sample Depth (feet)	3 to 5	10 to 12
VOCs (mg/kg)		
1,2,4-Trimethylbenzene	0.2	**4.1**
Acetone	**0.13**	ND
Benzene	**0.068**	ND
Ethylbenzene	0.19	**3**
m&p-Xylenes	**0.44**	**1.5**
Total Xylenes	**0.64**	**1.5**
Total BTEX Concentration	0.798	3
Total VOCs Concentration	2.624	21.82

B9	
Sample ID	B9
Sampling Date	9/15/2013
Sample Depth (feet)	12 to 14
Total VOCs (mg/kg)	ND
Total SVOCs (mg/kg)	ND

B4	
Sample ID	B4
Sampling Date	9/15/2013
Sample Depth (feet)	5 to 7
VOCs (mg/kg)	
Acetone	**0.11**
m&p-Xylenes	**1.2**
o-Xylene	**0.35**
Total Xylenes	**1.55**
Total BTEX Concentration	1.316
Total VOCs Concentration	6.427

B5	
Sample ID	B5
Sampling Date	9/15/2013
Sample Depth (feet)	10 to 12
VOCs (mg/kg)	
1,2,4-Trimethylbenzene	**48**
1,3,5-Trimethylbenzene	**20**
Ethylbenzene	**7.3**
m&p-Xylenes	**26**
n-Propylbenzene	**9.1**
o-Xylene	**7.3**
Total Xylenes	**33.3**
Total BTEX Concentration	14.6
Total VOCs Concentration	160.7

SB-5		
Sample ID	SB-5 (1-3)	SB-5 (14-16)
Sampling Date	1/23/2015	1/23/2015
Sample Depth (feet)	1'-3'	14'-16'
SVOCs (mg/kg)		
Benzo(alanthracene	1.03	0.0334
Chrysene	**1.06**	0.0367
Pesticides/Herbicides (mg/kg)		
4,4'-DDE	**0.00476**	ND<0.0027
4,4'-DDT	**0.0109**	ND<0.0027
alpha-Chlordane	**0.111**	0.026
Metals (mg/kg)		
Copper	**112**	18.10
Lead	**256**	12.40
Selenium	**4.08**	3.20
Zinc	**500**	39.80

SB-1		
Sample ID	SB-1 (2.5-4.5)	SB-1 (7-9)
Sampling Date	1/23/2015	1/23/2015
Sample Depth (feet)	2.5'-4.5'	7'-9'
VOCs (mg/kg)		
Acetone	**0.18**	**0.059**
SVOCs (mg/kg)		
Benzo(k)fluoranthene	0.638	**0.807**
Chrysene	**1.02**	**1.92**
Indeno(1,2,3-cd)pyrene	**0.629**	**0.589**
Metals (mg/kg)		
Copper	**60.20**	39.70
Lead	**417**	**234**
Mercury	0.13	**0.182**
Selenium	**3.95**	3.19
Zinc	**427**	**271**

SB-6	
Sample ID	SB-6 (0-2)
Sampling Date	1/23/2015
Sample Depth (feet)	0'-2'
Pesticides/Herbicides (mg/kg)	
4,4'-DDE	**0.00672**
4,4'-DDT	**0.0338**
Metals (mg/kg)	
Lead	**224**
Selenium	**4.06**
Zinc	**126**

B7	
Sample ID	B7
Sampling Date	9/15/2013
Sample Depth (feet)	10 to 12
VOCs (mg/kg)	
Total Xylenes	0.071
Total BTEX Concentration	0.167
Total VOCs Concentration	0.359

SB-4		
Sample ID	SB-4 (1.5-3.5)	SB-4 (6-8)
Sampling Date	1/23/2015	1/23/2015
Sample Depth (feet)	1.5'-3.5'	6'-8'
VOCs (mg/kg)		
Acetone	**ND<0.50**	**0.078**
Methylene chloride	**0.80**	ND<0.0045
SVOCs (mg/kg)		
Benzo(a)anthracene	14	0.27
Benzo(a)pyrene	6.43	0.18
Benzo(b)fluoranthene	7.15	0.15
Benzo(k)fluoranthene	10	0.20
Chrysene	31.30	0.27
Dibenzo(a,h)anthracene	3.85	0.039
Dibenzofuran	**12.50**	0.093
Indeno(1,2,3-cd)pyrene	6.90	0.079
Naphthalene	**15.40**	0.14
Metals (mg/kg)		
Lead	**249**	20.80
Selenium	3.63	**4.15**
Zinc	**147**	42.80

B6	
Sample ID	B6
Sampling Date	9/15/2013
Sample Depth (feet)	10 to 12
VOCs (mg/kg)	
Acetone	**0.17**
Total Xylenes	0.014
Total BTEX Concentration	0.014
Total VOCs Concentration	0.215

B8	
Sample ID	B8
Sampling Date	9/15/2013
Sample Depth (feet)	13 to 15
VOCs (mg/kg)	
Total Xylenes	0.157
Total BTEX Concentration	0.229
Total VOCs Concentration	0.603

LEGEND:

- APPROXIMATE SITE BOUNDARY
- PREVIOUS LOT BOUNDARIES
- SB-4(MW) 2015 SOIL BORING LOCATIONS
- SB-5 2015 TEMPORARY MONITORING WELL LOCATIONS
- B9 2013 SOIL BORING LOCATIONS
- GW9 2013 MONITORING WELL LOCATIONS
- GPR ANOMALY INDICATIVE OF UST
- B5 9/15/2013 2013 INVESTIGATION ANALYTICAL DATA

NOTES:

1. SURVEY CONDUCTED BY PERFECT POINT LAND SURVEYING RT ON MARCH 27, 2014.
2. SOIL SAMPLE ANALYTICAL RESULTS ARE COMPARED TO THE NYSDEC NYCRR PART 375-6.8(A) UNRESTRICTED AND RESTRICTED RESIDENTIAL USE SOIL CLEANUP OBJECTIVES (SCO).
3. ONLY ANALYTES WITH EXCEEDANCES ARE SHOWN.
4. UST – UNDERGROUND STORAGE TANK
5. VOC – VOLATILE ORGANIC COMPOUND
6. SVOC – SEMI-VOLATILE ORGANIC COMPOUND
7. MG/KG – MILIGRAMS PER KILOGRAM
8. ND – NOT DETECTED
9. "~" – CRITERIA DOES NOT EXIST

Analyte	NYSDEC Part 375 Unrestricted SCO	NYSDEC Part 375 Restricted Residential Use SCO
VOCs (mg/kg)		
1,4-Dioxane	0.1	13
1,2,4-Trimethylbenzene	3.6	52
1,3,5-Trimethylbenzene	8.4	52
Acetone	0.05	100
Benzene	0.06	4.8
Ethylbenzene	1	41
m&p-Xylenes	0.26	~
Methyl t-butyl ether (MTBE)	0.93	100
Methylene chloride	0.05	100
Naphthalene	12.0	~
n-Propylbenzene	3.9	100
o-Xylene	0.26	~
Total Xylenes	0.26	100
Toluene	0.7	100
SVOCs (mg/kg)		
Benzo(a)anthracene	1	1
Benzo(a)pyrene	1	1
Benzo(b)fluoranthene	1	1
Benzo(k)fluoranthene	1	3.9
Chrysene	1	3.9
Dibenzo(a,h)anthracene	0.33	0.33
Dibenzofuran	7	59
Indeno(1,2,3-cd)pyrene	0.5	0.5
Naphthalene	12	500
Pesticides/Herbicides (mg/kg)		
4,4'-DDE	0.0033	8.9
4,4'-DDT	0.0033	7.9
alpha-Chlordane	0.094	4.2
Metals (mg/kg)		
Copper	50	270
Lead	63	400
Mercury	0.18	0.81
Selenium	3.9	180
Zinc	109	10,000
NYSDEC Part 375 Unrestricted SCO Exceedance		
NYSDEC Part 375 Restricted Residential Use SCO Exceedance		

40 0 10 25 40

SCALE IN FEET

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Langan Engineering, Environmental, Surveying and Landscape Architecture, D.P.C.
Langan Engineering and Environmental Services, Inc.
Langan CT, Inc.
Langan International LLC

Collectively known as Langan

Project
ENCLAVE ON 241ST STREET DEVELOPMENT
BLOCK No. 5087 LOT No. 1
BRONX NEW YORK

Drawing Title
SOIL ANALYTICAL RESULTS MAP (2013 & 2015)

Project No. 140115301
Date 1/27/2015
Scale 1"=40'
Drawn By SEC
Checked By RJW
Submission Date 2/3/2015
Drawing No. 3

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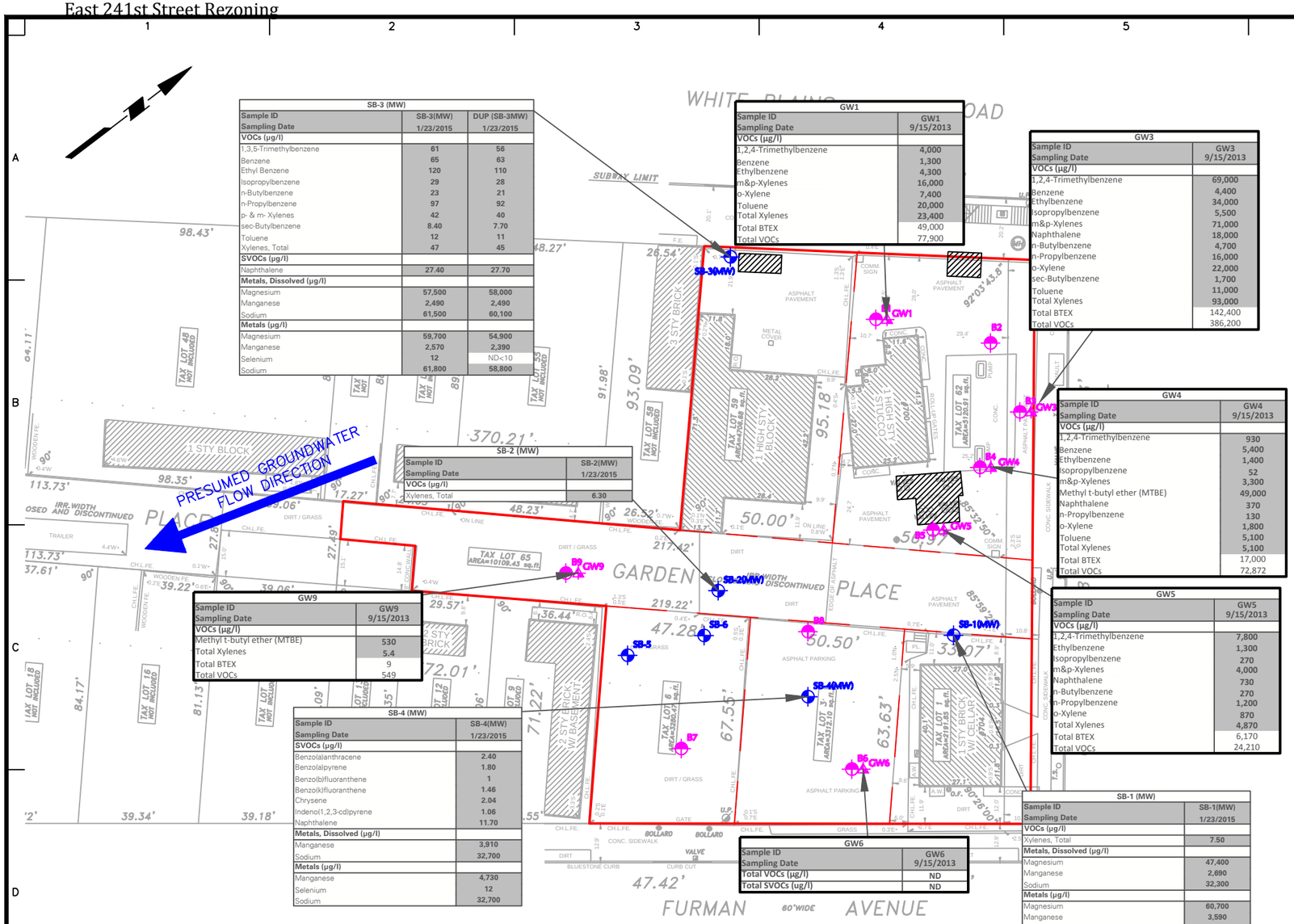
Filename: \\langan.com\data\NH\data3\140115301\Cadd Data - 140115301\2D-DesignFiles\Phase II ESI\Soil Tag Map.dwg Date: 2/3/2015 Time: 16:30 User: jhall Style Table: Langan.stb Layout: ANSIB-BL



SB-3 (MW)		
Sample ID	**SB-3(MW)**	**DUP (SB-3MW)**
Sampling Date	**1/23/2015**	**1/23/2015**
VOCs (µg/l)		
1,3,5-Trimethylbenzene	61	56
Benzene	65	63
Ethyl Benzene	120	110
Isopropylbenzene	29	28
n-Butylbenzene	23	21
n-Propylbenzene	97	92
p- & m- Xylenes	42	40
sec-Butylbenzene	8.40	7.70
Toluene	12	11
Xylenes, Total	47	45
SVOCs (µg/l)		
Naphthalene	27.40	27.70
Metals, Dissolved (µg/l)		
Magnesium	57,500	58,000
Manganese	2,490	2,490
Sodium	61,500	60,100
Metals (µg/l)		
Magnesium	59,700	54,900
Manganese	2,570	2,390
Selenium	12	ND<10
Sodium	61,800	58,800

SB-2 (MW)	
Sample ID	**SB-2(MW)**
Sampling Date	**1/23/2015**
VOCs (µg/l)	
Xylenes, Total	6.30

GW1	
Sample ID	**GW1**
Sampling Date	**9/15/2013**
VOCs (µg/l)	
1,2,4-Trimethylbenzene	4,000
Benzene	1,300
Ethylbenzene	4,300
m&p-Xylenes	16,000
o-Xylene	7,400
Toluene	20,000
Total Xylenes	23,400
Total BTEX	49,000
Total VOCs	77,900

GW3	
Sample ID	**GW3**
Sampling Date	**9/15/2013**
VOCs (µg/l)	
1,2,4-Trimethylbenzene	69,000
Benzene	4,400
Ethylbenzene	34,000
Isopropylbenzene	5,500
m&p-Xylenes	71,000
Naphthalene	18,000
n-Butylbenzene	4,700
n-Propylbenzene	16,000
o-Xylene	22,000
sec-Butylbenzene	1,700
Toluene	11,000
Total Xylenes	93,000
Total BTEX	142,400
Total VOCs	386,200

GW4	
Sample ID	**GW4**
Sampling Date	**9/15/2013**
VOCs (µg/l)	
1,2,4-Trimethylbenzene	930
Benzene	5,400
Ethylbenzene	1,400
Isopropylbenzene	52
m&p-Xylenes	3,300
Methyl t-butyl ether (MTBE)	49,000
Naphthalene	370
n-Propylbenzene	130
o-Xylene	1,800
Toluene	5,100
Total Xylenes	5,100
Total BTEX	17,000
Total VOCs	72,872

GW5	
Sample ID	**GW5**
Sampling Date	**9/15/2013**
VOCs (µg/l)	
1,2,4-Trimethylbenzene	7,800
Ethylbenzene	1,300
Isopropylbenzene	270
m&p-Xylenes	4,000
Naphthalene	730
n-Butylbenzene	270
n-Propylbenzene	1,200
o-Xylene	870
Total Xylenes	4,870
Total BTEX	6,170
Total VOCs	24,210

GW6	
Sample ID	**GW6**
Sampling Date	**9/15/2013**
Total VOCs (µg/l)	ND
Total SVOCs (µg/l)	ND

GW9	
Sample ID	**GW9**
Sampling Date	**9/15/2013**
VOCs (µg/l)	
Methyl t-butyl ether (MTBE)	530
Total Xylenes	5.4
Total BTEX	9
Total VOCs	549

SB-4 (MW)	
Sample ID	**SB-4(MW)**
Sampling Date	**1/23/2015**
SVOCs (µg/l)	
Benzo(a)anthracene	2.40
Benzo(a)pyrene	1.80
Benzo(b)fluoranthene	1
Benzo(k)fluoranthene	1.46
Chrysene	2.04
Indeno(1,2,3-cd)pyrene	1.06
Naphthalene	11.70
Metals, Dissolved (µg/l)	
Manganese	3,910
Sodium	32,700
Metals (µg/l)	
Manganese	4,730
Selenium	12
Sodium	32,700

SB-1 (MW)	
Sample ID	**SB-1(MW)**
Sampling Date	**1/23/2015**
VOCs (µg/l)	
Xylenes, Total	7.50
Metals, Dissolved (µg/l)	
Magnesium	47,400
Manganese	2,690
Sodium	32,300
Metals (µg/l)	
Magnesium	60,700
Manganese	3,590
Sodium	33,100

LEGEND:

- APPROXIMATE SITE BOUNDARY
- PREVIOUS LOT BOUNDARIES
- SB-5 — 2015 SOIL BORING LOCATIONS
- SB-40(MW) — 2015 TEMPORARY MONITORING WELL LOCATIONS
- B9 — 2013 SOIL BORING LOCATIONS
- GW9 — 2013 MONITORING WELL LOCATIONS
- GPR ANOMALY INDICATIVE OF UST
- GW3 9/15/2013 — 2013 INVESTIGATION ANALYTICAL DATA

NOTES:

1. SURVEY CONDUCTED BY PERFECT POINT LAND SURVEYING RT ON MARCH 27, 2014.
2. GROUNDWATER SAMPLE ANALYTICAL RESULTS ARE COMPARED TO THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) TECHNICAL AND OPERATIONAL GUIDANCE SERIES (TOGS) 1.1.1 AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES FOR CLASS GA WATER
3. ONLY ANALYTES WITH EXCEEDANCES ARE SHOWN.
4. NYSDEC TOGS 1.1.1 AMBIENT WATER QUALITY STANDARDS AND GUIDANCE VALUES EXCEEDANCES ARE BOLDED AND SHADED.
5. UST – UNDERGROUND STORAGE TANK
6. VOC – VOLATILE ORGANIC COMPOUND
7. UG/L – MICROGRAM PER LITER
8. "~" CRITERIA DOES NOT EXIST

Analyte	NYSEC TOGS Standards and Guidance Values - GA
VOCs (µg/l)	
1,2,4-Trimethylbenzene	5
1,3,5-Trimethylbenzene	5
Benzene	1
Ethylbenzene	5
Isopropylbenzene	5
m&p-Xylenes	5
Methyl t-butyl ether (MTBE)	10
Naphthalene	10
n-Butylbenzene	5
n-Propylbenzene	5
o-Xylene	5
sec-Butylbenzene	5
Toluene	5
Total Xylenes	5
SVOCs (µg/l)	
Benzo(a)anthracene	0.002
Benzo(a)pyrene	0.002
Benzo(b)fluoranthene	0.002
Benzo(k)fluoranthene	0.002
Chrysene	0.002
Indeno(1,2,3-cd)pyrene	0.002
Naphthalene	10
Metals (µg/l)	
Magnesium	35,000
Manganese	300
Selenium	10
Sodium	20,000

40 0 10 25 40
SCALE IN FEET

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Project
ENCLAVE ON 241ST STREET DEVELOPMENT
BLOCK No. 5087 LOT No. 1
BRONX NEW YORK

Drawing Title
GROUNDWATER ANALYTICAL RESULTS MAP (2013 & 2015)

Project No.	Drawing No.
140115301	4
Date 1/27/2015	
Scale 1"=30'	
Drawn By SEC / Checked By RJW	
Submission Date 2/3/2015	

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File name: \\langan.com\data\NH\data3\140115301\Cadd Data - 140115301\2D-DesignFiles\Phase II ESI\Groundwater Tag Map.dwg Date: 2/3/2015 Time: 16:31 User: jhall Style Table: Langan.stb Layout: ANSIB-BL

ATTACHMENT A

PREVIOUS ENVIRONMENTAL REPORTS (CD)

ATTACHMENT B

GEOPHYSICAL SURVEY REPORT

GEOPHYSICAL ENGINEERING SURVEY REPORT

Commercial Property

700 E 241st Street
Bronx, New York 10470

NOVA PROJECT NUMBER
15-0522

DATED
January 27, 2015

PREPARED FOR:
LANGAN
Long Warf Maritime Center –
555 Long Warf Drive
New Haven, CT 06511

PREPARED BY:

NOVA
GEOPHYSICAL
ENGINEERING
Subsurface Mapping Solutions
56-01 Marathon Parkway # 765
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January 27, 2015

Ryan J Wohlstrom, P.E. LEED AP
Project Engineer
LANGAN
Long Warf Maritime Center –
555 Long Warf Drive
New Haven, CT 06511
Direct: 203.784.3069
Mobile: 203.464.2731

Re: Geophysical Engineering Survey (GES) Report
Commercial Property
700 East 241st Street
Bronx, New Jersey 10470

Dear Mr. Wohlstrom:

Nova Geophysical Services (NOVA) is pleased to provide findings of the geophysical engineering survey (GES) at the above referenced project site: Commercial Property, 700 East 241st Street, Bronx, New York (the "Site"). Please see attached Site Location and Geophysical Survey maps for more details.

INTRODUCTION TO GEOPHYSICAL ENGINEERING SURVEY (GES)

NOVA performed a Geophysical engineering surveys (GES) consisting of a Ground Penetrating Radar (GPR) survey at the site. The purpose of this survey is to locate and identify USTs, anomalies, utilities and other substructures and to clear and mark proposed environmental boring areas on January 23, 2015.

The equipment selected for this investigation was Noggin's 250 MHz ground penetrating radar (GPR) shielded antenna.

A GPR system consists of a radar control unit, control cable and a transducer (antenna). The control unit transmits a trigger pulse at a normal repetition rate of 250 MHz. The trigger pulse is sent to the transmitter electronics in the transducer via the control cable. The transmitter electronics amplify the trigger pulses into bipolar pulses that are radiated to the surface. The transformed pulses vary in shape and frequency according to the transducer used. In the subsurface, variations of the signal occur at boundaries where there is a dielectric contrast (void, steel, soil type, etc.). Signal reflections travel back to the control unit and are represented as color graphic images for interpolation.

GEOPHYSICAL METHODS

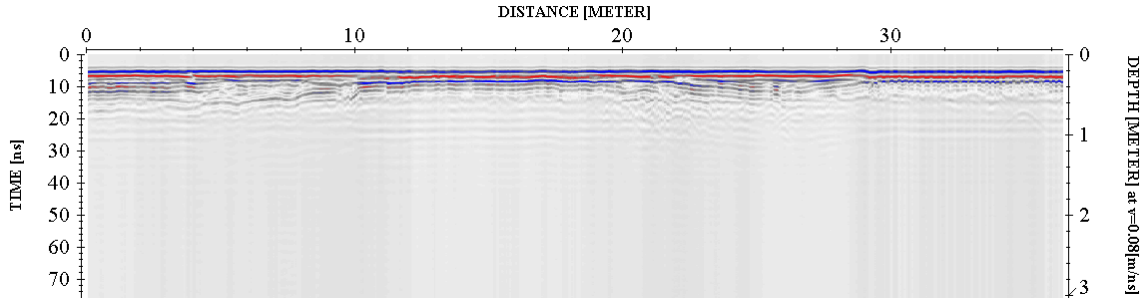
The project site was screened using the GPR to search the entire area and inspected for reflections, which could be indicative of major anomalies and substructures. Specific borehole locations were screened in a smaller grid prior to finalizing placement.

GPR data profiles were collected for the areas of the Site specified by the client. The surveyed areas consisted of dirt, concrete and asphalt surfaces.

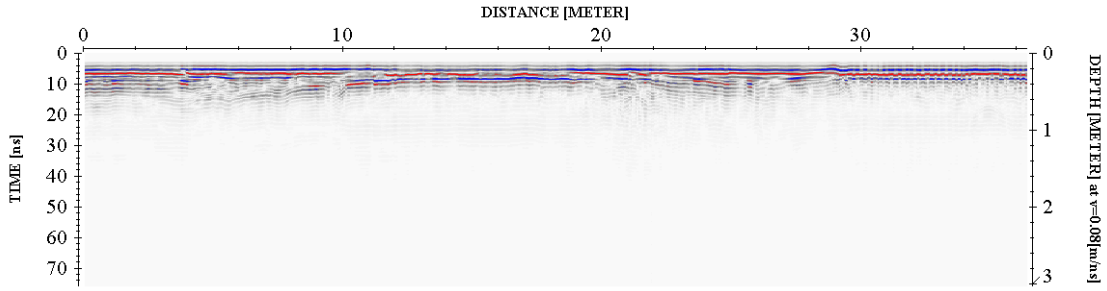
DATA PROCESSING

In order to improve the quality of the results and to better identify subsurface anomalies NOVA processed the collected data. The processes flow is briefly described at this section.

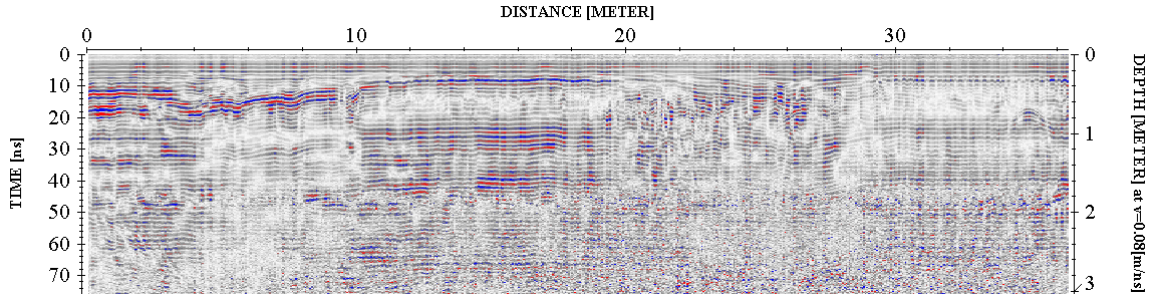
Step 1. Import raw RAMAC data to standard processing format



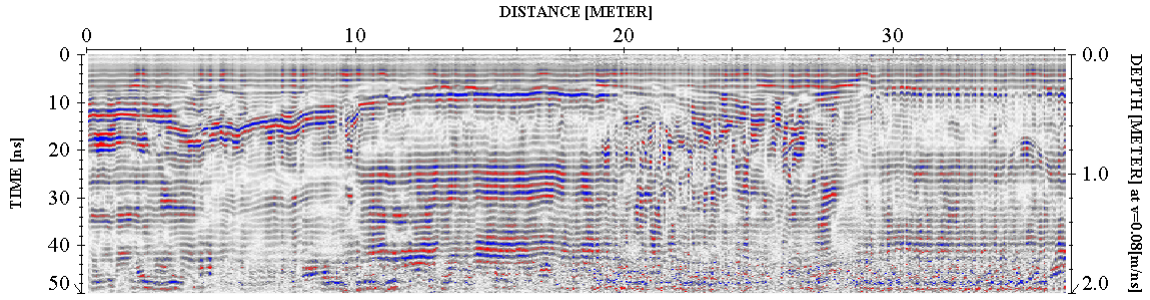
Step 2. Remove instrument noise *(dewow)*



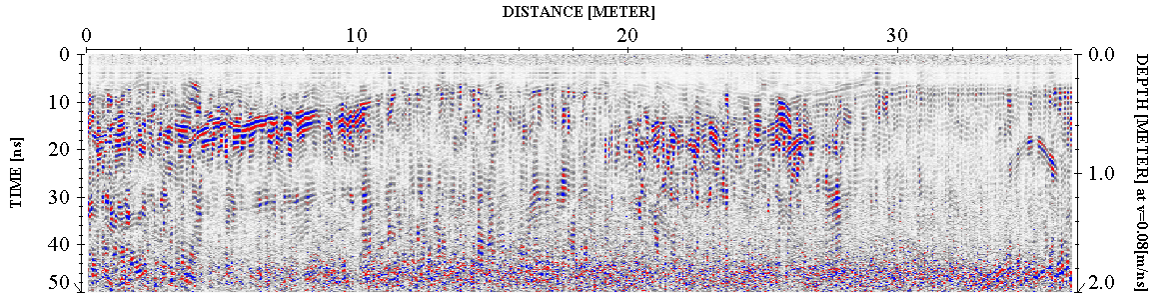
Step 3. Correct for attenuation losses *(energy decay function)*



Step 4. Remove static from bottom of profile *(time cut)*



Step 5. Mute horizontal ringing/noise *(subtracting average)*



The above example shows the significance of data processing. The last image (step 5) has higher resolution than the starting image (raw data – step 1) and describes the subsurface anomalies more accurately.

PHYSICAL SETTINGS

Nova observed following physical conditions at the time of the survey:

The weather: Sunny

Temp: 35 Degrees (F).

Surface: Dirt and paved (concrete-asphalt) surfaces

Geophysical Noise Level (GNL): Geophysical Noise Level (GNL) was medium to high at the site. The noise was a direct result of the survey site being located in an urban environment. Ice on the fround prevented some areas from being surveyed.

RESULTS

The results of the geophysical engineering survey (GES) identified following at the project Site:

- GES survey identified scattered anomalies located throughout the project site. Based on their rates and proximity, these anomalies were inconsistent with any USTs. These areas were indicated on the on-site markout.
- Several utilities (sewer, water) were located on the site. These were marked out both at the site and on the survey map (subsurface only).
- Several large anomalies, consistent with potential USTs, were located on the site. These are indicated both at the site and on the survey map.
- Geophysical Survey Plan portrays the areas investigated during the geophysical survey.

If you have any questions please do not hesitate to contact the undersigned.
Sincerely,

NOVA Geophysical Services

Levent Eskicakit, P.G., E.P.
Project Engineer

Attachments:
Figure 1 Site Location Map
Geophysical Survey Plan
Geophysical Images

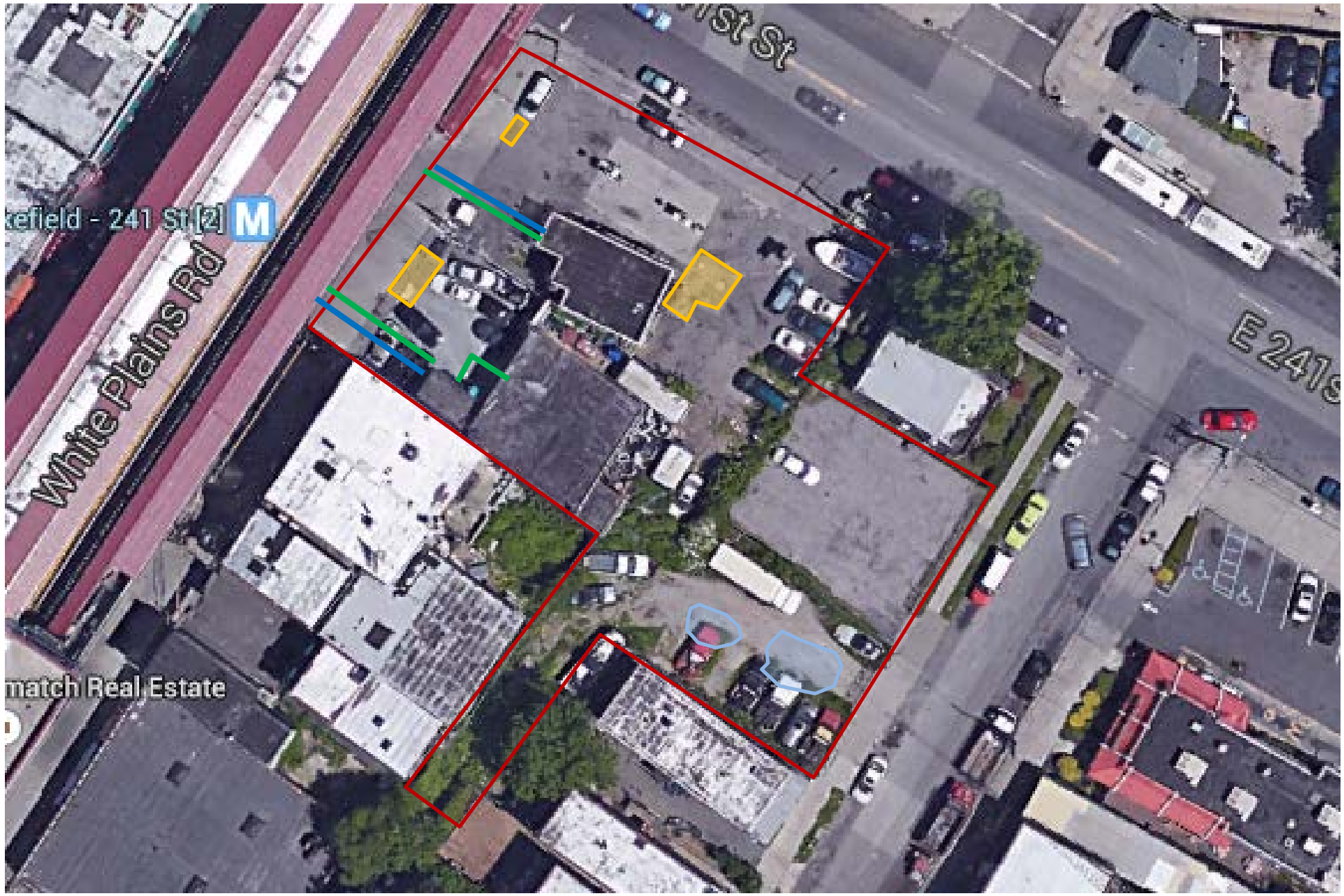


FIGURE 1
SITE LOCATION MAP

NOVA
Geophysical Services
Subsurface Mapping Solutions
56-01 Marathon Pkwy, # 765, Douglaston, NY11362
(347) 556-7787 Fax (718) 261-1528
www.nova-gsi.com

SITE: **Commercial Property**
700 E 241st Street
Bronx, New York 10470

SCALE: See Map



1- All anomalies were marked in the field.

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Subsurface Mapping Solutions
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Douglaston, New York11362
Phone (347) 556-7787 * Fax (718) 261-1527
www.nova-gsi.com

GEOPHYSICAL SURVEY PLAN

SITE : **Commercial Property**
700 E 241st Street
Bronx, New York 10470

CLIENT: **LANGAN**
DATE: January 23, 2015
Scale See Map

INFORMATION

- Survey Area
- Ice
- Potential UST
- Sewer Line
- Water Line

N

50 ft.

GEOPHYSICAL IMAGES
Commercial Property
700 E 241st Street
Bronx, New York 10470
January 23rd, 2015









GEOPHYSICAL IMAGES

Commercial Property
700 E 241st Street
Bronx, New York 10470
January 23rd, 2015





ATTACHMENT C

SOIL BORING LOGS

LANGAN

Log of Boring **SB-1(MW)** Sheet 1 of 1

Project: Enclave on 241st Street	Project No.: 140115301
Location: 700 241st Street, Bronx, NY	Elevation and Datum: Approx.
Drilling Company: Aquifer Drilling and Testing, Inc.	Date Started: 1/23/15 / Date Finished: 1/23/15
Drilling Equipment: Geoprobe 6610 DT	Completion Depth: 16 ft / Rock Depth: N/E
Size and Type of Bit: N/A	Number of Samples: Disturbed 4 / Undisturbed 0 / Core 0
Casing Diameter (in): N/A / Casing Depth (ft): N/A	Water Level (ft.): First ▽ 10 / Completion / 24 HR.
Casing Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Tommy Sheerin
Sampler: 2" Macrocore (4' long)	Inspecting Engineer: Justin Hall / Stephen Clout
Sampler Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Asphalt	0.0	0					
		Brown F-M SAND, sm silt Brown-black F-C SAND, sm silt tr f. gravel sm black silt, tr brick, tr concrete, tr glass, tr coal tar	0.0	1	S-1	MACROCORE	37		1'-3' - petroleum odor
			0.0	2					
			0.0	3					
			0.0	4					Collect Sample SB-1(MW) from 2.5'-4.5'
		Brown f-c SAND, sm silt, tr f. gravel	0.0	5	S-2	MACROCORE	28		
			0.0	6					
			0.0	7					
		Gray to brown f-c SAND, sm silt, tr f. gravel	17.8	8					7'-8' - petroleum odor
		Gray brown f-m SAND, sm silt, tr f. gravel	0.0	9					Collect Sample SB-1(MW) from 7'-9' 8'-9.5' - petroleum odor
		Brown f-m SAND, sm silt, tr c. sand, tr f. gravel ▽	0.0	10	S-3	MACROCORE	40		
			0.0	11					
			0.0	12					
		Brown f-m SAND, sm silt, tr clay	0.0	13					
			0.0	14	S-4	MACROCORE	48		
			0.0	15					
		Brown f-c SAND, tr silt, tr clay	0.0	16					
		End of Boring @ 16'		17					
				18					
				19					
				20					

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Log of Boring **SB-2(MW)** Sheet 1 of 1

Project: Enclave on 241st Street	Project No.: 140115301
Location: 700 241st Street, Bronx, NY	Elevation and Datum: Approx.
Drilling Company: Aquifer Drilling and Testing, Inc.	Date Started: 1/23/15 / Date Finished: 1/23/15
Drilling Equipment: Geoprobe 6610 DT	Completion Depth: 16 ft / Rock Depth: N/E
Size and Type of Bit: N/A	Number of Samples: Disturbed 4 / Undisturbed 0 / Core 0
Casing Diameter (in): N/A / Casing Depth (ft): N/A	Water Level (ft.): First ▽ 11 / Completion ▼ / 24 HR. ▼
Casing Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Tommy Sheerin
Sampler: 2" Macrocore (4' long)	Inspecting Engineer: Justin Hall / Stephen Clout
Sampler Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Gray-Black F-C SAND, tr silt, tr f gravel, tr brick, tr coal tar	0.0	0	S-1	MACROCORE	40		0'-3.5' - petroleum odor
			0.0	1					
			0.0	2					Collect Sample SB-2(MW) from 1.5'-3.5'
			0.0	3					
		Brown F-M SAND, tr silt, tr c-sand	0.0	4					
		Brown F-M SAND, sm silt, tr c. sand, tr f. gravel	0.0	5	S-2	MACROCORE	40		
			0.0	6					
			0.0	7					
			0.0	8					
		Brown F-C SAND, tr silt	0.0	9					
		Brown F-M SAND, sm silt, tr clay, tr f. gravel	0.0	10	S-3	MACROCORE	40		Collect Sample SB-2(MW) from 8'-10'
		▽	0.0	11					
			0.0	12					
		Brown F-M SAND, sm silt, sm clay	0.0	13					
			0.0	14	S-4	MACROCORE	40		
			0.0	15					
			0.0	16					
		End of Boring @ 16'		17					
				18					
				19					
				20					

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Log of Boring **SB-3(MW)** Sheet 1 of 1

Project: Enclave on 241st Street	Project No.: 140115301
Location: 700 241st Street, Bronx, NY	Elevation and Datum: Approx.
Drilling Company: Aquifer Drilling and Testing, Inc.	Date Started: 1/23/15 / Date Finished: 1/23/15
Drilling Equipment: Geoprobe 6610 DT	Completion Depth: 16 ft / Rock Depth: N/E
Size and Type of Bit: N/A	Number of Samples: Disturbed 4 / Undisturbed 0 / Core 0
Casing Diameter (in): N/A / Casing Depth (ft): N/A	Water Level (ft.): First ▽ 12 / Completion / 24 HR.
Casing Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Tommy Sheerin
Sampler: 2" Macrocore (4' long)	Inspecting Engineer: Justin Hall / Stephen Clout
Sampler Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Asphalt	0.0	0					
		Brown-gray F-C SAND, tr silt, tr f. gravel, tr glass, tr coal tar, tr concrete	0.0	1	S-1	MACROCORE	20		Collect Sample SB-3(MW) from 1'-3'
			0.0	2					
			0.0	3					
		Brown F-M SAND sm silt, tr f. gravel	0.0	4					
		Brown F-C SAND tr silt, tr f. gravel	0.0	5	S-2	MACROCORE	32		
		Brown F-M SAND sm silt, tr f. gravel	0.0	6					
			0.0	7					
			0.0	8					
		Brown F-M SAND sm silt, tr c. sand	0.3	9					
		Brown-Red-Gray F-C SAND, tr silt, tr f. gravel, reddish sand/silt	0.5	10	S-3	MACROCORE	38		8.5'-12' - petroleum odor
			0.6	11					
			28.6 ▽	12					
		Brown-Red-Black F-C SAND, tr silt, tr clay	374	13					Collect Sample SB-3(MW) + DUP-1 from 11'-13'
			495	14	S-4	MACROCORE	20		12'-16' - petroleum odor
			985	15					
			1095	16					
		End of Boring @ 16'		17					
				18					
				19					
				20					

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Log of Boring **SB-4(MW)** Sheet 1 of 1

Project: Enclave on 241st Street	Project No.: 140115301
Location: 700 241st Street, Bronx, NY	Elevation and Datum: Approx.
Drilling Company: Aquifer Drilling and Testing, Inc.	Date Started: 1/23/15 / Date Finished: 1/23/15
Drilling Equipment: Geoprobe 6610 DT	Completion Depth: 20 ft / Rock Depth: N/E
Size and Type of Bit: N/A	Number of Samples: Disturbed 5 / Undisturbed 0 / Core 0
Casing Diameter (in): N/A / Casing Depth (ft): N/A	Water Level (ft.): First ▽ 9 / Completion ▼ / 24 HR. ▼
Casing Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Tommy Sheerin
Sampler: 2" Macrocore (4' long)	Inspecting Engineer: Justin Hall / Stephen Clout
Sampler Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Asphalt	0.0	0					
		Brown-Black F-C SAND sm silt, tr f. gravel, tr concrete, tr brick	0.1	1	S-1	MACROCORE	40		
			0.2	2					Collect Sample SB-4(MW) from 1.5'-3.5'
			0.0	3					
		Gray F-M SAND, sm silt	0.0	4					
		Brown F-M SAND, sm silt, tr f. gravel	0.0	5	S-2	MACROCORE	40		
			0.0	6					
			0.0	7					Collect Sample SB-4(MW) from 6'-8'
		Brown F-M SAND, sm silt	0.0	8					
		▽	0.0	9	S-3	MACROCORE	40		
			0.0	10					
		Brown F-C SAND, sm silt	0.0	11					
		Brown F-C SAND, sm silt, tr clay	0.0	12					
			0.0	13	S-4	MACROCORE	40		
			0.0	14					
			0.0	15					
		Brown F-C SAND, sm silt, tr clay	0.0	16					
			0.0	17	S-5	MACROCORE	37		
			0.0	18					
		Brown SILT, f. sand, sm clay	0.0	19					
		End of Boring @ 20'	0.0	20					

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Log of Boring **SB-5** Sheet 1 of 1

Project: Enclave on 241st Street	Project No.: 140115301
Location: 700 241st Street, Bronx, NY	Elevation and Datum: Approx.
Drilling Company: Aquifer Drilling and Testing, Inc.	Date Started: 1/23/15 — Date Finished: 1/23/15
Drilling Equipment: Geoprobe 6610 DT	Completion Depth: 20 ft — Rock Depth: N/E
Size and Type of Bit: N/A	Number of Samples: Disturbed 5 — Undisturbed 0 — Core 0
Casing Diameter (in): N/A — Casing Depth (ft): N/A	Water Level (ft.): First ▽ 16 — Completion ▼ — 24 HR. ▼
Casing Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	Drilling Foreman: Tommy Sheerin
Sampler: 2" Macrocore (4' long)	Inspecting Engineer: Justin Hall / Stephen Clout
Sampler Hammer: N/A — Weight (lbs): N/A — Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Brown-Gray F-C SAND, tr silt, sm f. gravel, tr brick, tr glass, tr coal tar	0.0	0	S-1	MACROCORE	38		Collect Sample SB-5 from 1'-3'
			0.0	1					
			0.0	2					
			0.0	3					
		Piece of concrete	0.0	4					
		Brown F-C SAND, tr silt, sm f. gravel	0.0	4	S-2	MACROCORE	40		
		Brown F-M SAND, sm silt, tr f. gravel, tr c. sand	0.0	5					
			0.0	6					
			0.0	7					
		Brown F-M SAND, sm silt, tr f. gravel, sm c. sand	0.0	8	S-3	MACROCORE	40		
			0.0	9					
			0.0	10					
			0.0	11					
		Brown F-M SAND, sm silt, tr f. gravel	0.0	12	S-4	MACROCORE	38		
			0.0	13					
			0.0	14					
			0.0	15					Collect Sample SB-5 from 14'-16'
			0.0	16 ▽					
		Brown F-C SAND, sm silt, tr f. gravel Intrusions of cobbles and c. sand	0.0	16	S-5	MACROCORE	37		
			0.0	17					
			0.0	18					
			0.0	19					
		End of Boring @ 20'	0.0	20					

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Log of Boring **SB-6** Sheet 1 of 1

Project: Enclave on 241st Street	Project No.: 140115301
Location: 700 241st Street, Bronx, NY	Elevation and Datum: Approx.
Drilling Company: Aquifer Drilling and Testing, Inc.	Date Started: 1/23/15 / Date Finished: 1/23/15
Drilling Equipment: Geoprobe 6610 DT	Completion Depth: 4 ft / Rock Depth: N/E
Size and Type of Bit: N/A	Number of Samples: Disturbed 1 / Undisturbed 0 / Core 0
Casing Diameter (in): N/A / Casing Depth (ft): N/A	Water Level (ft.): First ▽ N/E / Completion ▼ / 24 HR. ▼
Casing Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	Drilling Foreman: Tommy Sheerin
Sampler: 2" Macrocore (4' long)	Inspecting Engineer: Justin Hall / Stephen Clout
Sampler Hammer: N/A / Weight (lbs): N/A / Drop (in): N/A	

Material Symbol	Elev. (ft)	Sample Description	PID Reading (ppm)	Depth Scale	Sample Data: Number	Type	Recov. (in)	Penetr. resist BL/6in	Remarks (Drilling Fluid, Depth of Casing, Fluid Loss, Drilling Resistance, etc.)
		Brown-Black F-C SAND, sm silt, tr f. gravel, tr brick, tr glass	0.0	0	S-1	MACROCORE	32		Collect Sample SB-6 from 0'-2'
		Brown F-M SAND, sm silt, tr c. sand	0.0	1					
			0.0	2					
			0.0	3					
		End of Boring @ 4'		4					
				5					
				6					
				7					
				8					
				9					
				10					
				11					
				12					
				13					
				14					
				15					
				16					
				17					
				18					
				19					
				20					

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ATTACHMENT D

WELL COMPLETION REPORTS

LANGAN

WELL CONSTRUCTION SUMMARY

Well No. SB-1(MW)

Project: Enclave on 241st Street	Project No.: 140115301
Location: 700 241st Street, Bronx, NY	Elevation And Datum: Approx.
Drilling Agency: Aquifer Drilling and Testing, Inc.	Date Started: 1/23/2015 / Date Finished: 1/23/2015
Drilling Equipment: Geoprobe 6610DT	Driller: Tommy Sheerin
Size And Type of Bit: N/A	Inspector: Justin Hall / Stephen Clout

Method of Installation: Direct Push

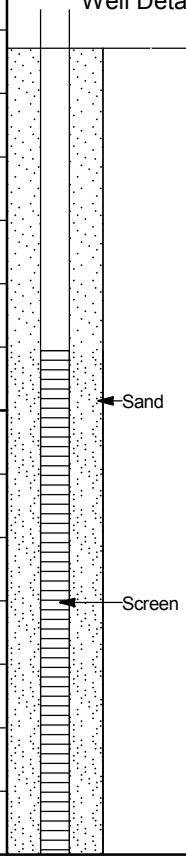
Method of Well Development: Pump and surge with peristaltic pump

Type of Casing: PVC	Diameter: 1-in	Type of Backfill Material: Sand	
Type of Screen: Slotted PVC	Diameter: 1-in	Type of Seal Material: N/A	
Borehole Diameter: 2-in		Type of Filter Material: No. 2 sand	

	Elevation	Depth
Top of Casing		
Top of Seal		
Top of Filter		0' bgs
Top of Screen		6' bgs
Bottom of Filter		16' bgs
Bottom of Well		16' bgs
Screen Length: 10.0'		Slot Size: 0.010-in slot

GROUNDWATER ELEVATIONS (ft)
(Measured from the Top of Casing)

Elevation	DTW	Date



Soil / Rock Classification	Depth (ft)
Asphalt	
Fill	
SAND	

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WELL CONSTRUCTION SUMMARY

Well No. SB-2(MW)

Project: Enclave on 241st Street	Project No.: 140115301
Location: 700 241st Street, Bronx, NY	Elevation And Datum: Approx.
Drilling Agency: Aquifer Drilling and Testing, Inc.	Date Started: 1/23/2015 / Date Finished: 1/23/2015
Drilling Equipment: Geoprobe 6610DT	Driller: Tommy Sheerin
Size And Type of Bit: N/A	Inspector: Justin Hall / Stephen Clout

Method of Installation: Direct Push

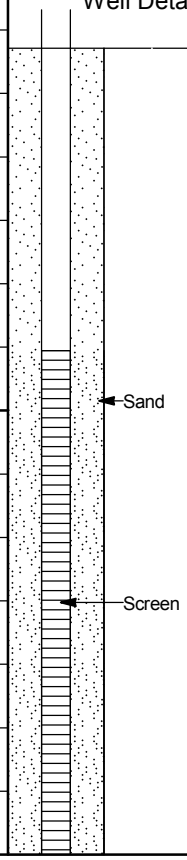
Method of Well Development: Pump and surge with peristaltic pump

Type of Casing: PVC	Diameter: 1-in	Type of Backfill Material: Sand	
Type of Screen: Slotted PVC	Diameter: 1-in	Type of Seal Material: N/A	
Borehole Diameter: 2-in		Type of Filter Material: No. 2 sand	

	Elevation	Depth
Top of Casing		
Top of Seal		
Top of Filter		0' bgs
Top of Screen		6' bgs
Bottom of Filter		16' bgs
Bottom of Well		16' bgs
Screen Length: 10.0'		Slot Size: 0.010-in slot

GROUNDWATER ELEVATIONS (ft)
(Measured from the Top of Casing)

Elevation	DTW	Date



Soil / Rock Classification	Depth (ft)
Fill	
SAND	

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WELL CONSTRUCTION SUMMARY

Well No. SB-3(MW)

Project: Enclave on 241st Street	Project No.: 140115301
Location: 700 241st Street, Bronx, NY	Elevation And Datum: Approx.
Drilling Agency: Aquifer Drilling and Testing, Inc.	Date Started: 1/23/2015 / Date Finished: 1/23/2015
Drilling Equipment: Geoprobe 6610DT	Driller: Tommy Sheerin
Size And Type of Bit: N/A	Inspector: Justin Hall / Stephen Clout

Method of Installation: Direct Push

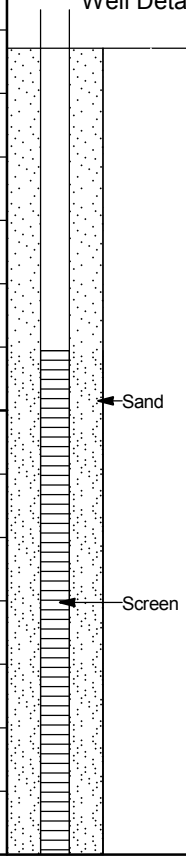
Method of Well Development: Pump and surge with peristaltic pump

Type of Casing: PVC	Diameter: 1-in	Type of Backfill Material: Sand	
Type of Screen: Slotted PVC	Diameter: 1-in	Type of Seal Material: N/A	
Borehole Diameter: 2-in		Type of Filter Material: No. 2 sand	

	Elevation	Depth
Top of Casing		
Top of Seal		
Top of Filter		0' bgs
Top of Screen		6' bgs
Bottom of Filter		16' bgs
Bottom of Well		16' bgs
Screen Length: 10.0'		Slot Size: 0.010-in slot

GROUNDWATER ELEVATIONS (ft)
(Measured from the Top of Casing)

Elevation	DTW	Date



Soil / Rock Classification	Depth (ft)
Asphalt	
Fill	
SAND	

16

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WELL CONSTRUCTION SUMMARY

Well No. SB-4(MW)

Project: Enclave on 241st Street	Project No.: 140115301
Location: 700 241st Street, Bronx, NY	Elevation And Datum: Approx.
Drilling Agency: Aquifer Drilling and Testing, Inc.	Date Started: 1/23/2015 / Date Finished: 1/23/2015
Drilling Equipment: Geoprobe 6610DT	Driller: Tommy Sheerin
Size And Type of Bit: N/A	Inspector: Justin Hall / Stephen Clout

Method of Installation: Direct Push

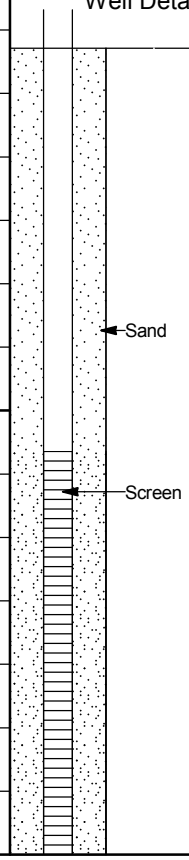
Method of Well Development: Pump and surge with peristaltic pump

Type of Casing: PVC	Diameter: 1-in	Type of Backfill Material: Sand	
Type of Screen: Slotted PVC	Diameter: 1-in	Type of Seal Material: N/A	
Borehole Diameter: 2-in		Type of Filter Material: No. 2 sand	

	Elevation	Depth
Top of Casing		
Top of Seal		
Top of Filter		0' bgs
Top of Screen		10' bgs
Bottom of Filter		20' bgs
Bottom of Well		20' bgs
Screen Length: 10.0'		Slot Size: 0.010-in slot

GROUNDWATER ELEVATIONS (ft)
(Measured from the Top of Casing)

Elevation	DTW	Date



Soil / Rock Classification	Depth (ft)
Asphalt	
Fill	
SAND	
Silt	20

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ATTACHMENT E

GROUNDWATER LOW-FLOW SAMPLING LOGS

Low Flow Sampling Field Parameter Measurements
Enclave on 241st Street, Bronx, NY
January 2015

Project:	Enclave on 241st Street	**Site Location:**	Bronx, NY	**Well No:**	SB-1(MW)	**Date:**	1/23/2015
Job Number:	140115301	**Weather:**	30s, Sunny			**Sampling Crew:**	JP + SC
Initial Depth to Water (ft):	14.00	**Well Depth (ft):**	16.00			**Pump Intake Depth (ft):**	15.50

TIME	pH (std. Units)	COND. (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	TEMP. °C	DTW (ft)	Q (mL/m)	NOTES color, odor etc.
16:10							13.84	50	Start pumping
16:15	6.83	0.886	4.60	-73	0.0	6.88	14.23	50	Clear, no odor
16:20	6.83	0.882	2.76	-121	0.0	8.19	14.86	50	
16:25	6.99	0.88	6.78	-125	0.0	7.86	15.15	50	
16:30	6.97	0.879	8.48	-131	0.0	7.93	15.46	50	
16:35	6.95	0.88	9.07	-138	0.0	7.68	15.50	50	Begin sampling
									due to drawdown

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Low Flow Sampling Field Parameter Measurements
Enclave on 241st Street, Bronx, NY
January 2015

Project:	Enclave on 241st Street	**Site Location:**	Bronx, NY	**Well No:**	SB-2(MW)	**Date:**	1/23/2015
Job Number:	140115301	**Weather:**	30s, Sunny			**Sampling Crew:**	JP + SC
Initial Depth to Water (ft):	13.50	**Well Depth (ft):**	15.50			**Pump Intake Depth (ft):**	15.00

TIME	pH (std. Units)	COND. (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	TEMP. °C	DTW (ft)	Q (mL/m)	NOTES color, odor etc.
15:20							13.32	50	Start pumping
15:25	6.93	0.825	3.22	-162	248	8.26	13.71	50	Clear, no odor
15:30	6.97	0.817	3.32	-174	233	8.28	14.01	50	
15:35	7.01	0.811	3.46	-183	226	8.28	14.37	50	
15:40	7.00	0.799	3.44	-167	210	8.05	14.71	50	
15:45	7.00	0.796	3.47	-156	200	7.75	14.92	50	
15:50	7.00	0.794	3.57	-157	195	7.33	15.09	50	Begin sampling
									due to drawdown

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Low Flow Sampling Field Parameter Measurements
Enclave on 241st Street, Bronx, NY
January 2015

Project:	Enclave on 241st Street	**Site Location:**	Bronx, NY	**Well No:**	SB-3(MW)	**Date:**	1/23/2015
Job Number:	140115301	**Weather:**	30s, Sunny			**Sampling Crew:**	JP + SC
Initial Depth to Water (ft):	11.28	**Well Depth (ft):**	16.00			**Pump Intake Depth (ft):**	13.00

TIME	pH (std. Units)	COND. (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	TEMP. °C	DTW (ft)	Q (mL/m)	NOTES color, odor etc.
13:25							11.28	200	Start pumping
13:30	5.65	1.19	0.70	-91	968	11.23	11.28	200	Cloudy, petroleum odor
13:35	5.58	1.20	0.22	-88	833	11.70	11.28	200	
13:40	5.59	1.19	0.13	-91	643	12.25	11.28	200	
13:45	5.66	1.17	0.20	-106	551	12.43	11.28	200	
13:50	5.87	1.17	0.11	-126	325	12.66	11.28	200	
13:55	5.98	1.18	0.09	-132	315	12.87	11.28	200	
14:00	6.11	1.19	0.07	-152	310	13.00	11.28	200	
14:05	6.15	1.18	0.07	-150	307	13.37	11.28	200	Clear
14:10	6.17	1.19	0.00	-154	250	13.60	11.28	200	
14:15	6.20	1.20	0.00	-160	234	13.65	11.28	200	
14:20	6.22	1.20	0.00	-163	213	13.65	11.28	200	
14:25	6.23	1.20	0.00	-167	180	13.43	11.28	200	Begin sampling, collect DUP

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Low Flow Sampling Field Parameter Measurements
Enclave on 241st Street, Bronx, NY
January 2015

Project:	Enclave on 241st Street	**Site Location:**	Bronx, NY	**Well No:**	SB-4(MW)	**Date:**	1/23/2015
Job Number:	140115301	**Weather:**	30s, Sunny			**Sampling Crew:**	JP + SC
Initial Depth to Water (ft):	11.00	**Well Depth (ft):**	19.50			**Pump Intake Depth (ft):**	17.00

TIME	pH (std. Units)	COND. (mS/cm)	DO (mg/L)	ORP (mV)	Turbidity (NTU)	TEMP. °C	DTW (ft)	Q (mL/m)	NOTES color, odor etc.
16:50							11.42	50	Start pumping
16:55	6.76	0.875	3.87	-32	569	8.65	11.81	50	Clear, no odor
17:00	6.75	0.865	2.91	-59	543	8.76	12.66	50	
17:05	6.75	0.870	2.56	-71	520	9.02	13.54	50	
17:10	6.76	0.870	2.34	-82	437	9.17	14.37	50	
17:15	6.77	0.863	2.12	-99	400	9.30	15.02	50	
17:20	6.77	0.867	1.37	-106	373	9.46	16.11	50	
17:25	6.77	0.862	1.59	-119	200	9.89	16.62	50	Begin sampling
									due to drawdown

Langan Engineering and Environmental Services, Inc.
555 Long Wharf Drive New Haven, CT 06511

ATTACHMENT F

LABORATORY ANALYTICAL REPORTS WITH CHAIN OF CUSTODY DATA

Technical Report

prepared for:

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Justin Hall

Report Date: 01/29/2015
Client Project ID: 140115301
York Project (SDG) No.: 15A0781

Revision No. 2.0

CT Cert. No. PH-0723 New Jersey Cert. No. CT-005 New York Cert. No. 10854 PA Cert. No. 68-04440

120 RESEARCH DRIVE STRATFORD, CT 06615 (203) 325-1371 FAX (203) 357-0166

Report Date: 01/29/2015
Client Project ID: 140115301
York Project (SDG) No.: 15A0781

Langan Engineering & Environmental Services (CT)
Long Wharf Maritime Center, 555 Long Wharf Drive
New Haven CT, 06511
Attention: Justin Hall

Purpose and Results

This report contains the analytical data for the sample(s) identified on the attached chain-of-custody received in our laboratory on January 23, 2015 and listed below. The project was identified as your project: **140115301**.

The analyses were conducted utilizing appropriate EPA, Standard Methods, and ASTM methods as detailed in the data summary tables.

All samples were received in proper condition meeting the customary acceptance requirements for environmental samples except those indicated under the Notes section of this report.

All analyses met the method and laboratory standard operating procedure requirements except as indicated by any data flags, the meaning of which are explained in the attachment to this report, and case narrative if applicable.

The results of the analyses, which are all reported on dry weight basis (soils) unless otherwise noted, are detailed in the following pages.

Please contact Client Services at 203.325.1371 with any questions regarding this report.

York Sample ID	Client Sample ID	Matrix	Date Collected	Date Received
15A0781-01	SB-1 (2.5-4.5)	Soil	01/23/2015	01/23/2015
15A0781-02	SB-1 (7-9)	Soil	01/23/2015	01/23/2015
15A0781-03	SB-2 (1.5-3.5)	Soil	01/23/2015	01/23/2015
15A0781-04	SB-2 (8-10)	Soil	01/23/2015	01/23/2015
15A0781-05	SB-3 (1-3)	Soil	01/23/2015	01/23/2015
15A0781-06	SB-4 (1.5-3.5)	Soil	01/23/2015	01/23/2015
15A0781-07	SB-3 (11-13)	Soil	01/23/2015	01/23/2015
15A0781-08	SB-4 (6-8)	Soil	01/23/2015	01/23/2015
15A0781-09	SB-5 (1-3)	Soil	01/23/2015	01/23/2015
15A0781-10	SB-5 (14-16)	Soil	01/23/2015	01/23/2015
15A0781-11	SB-6 (0-2)	Soil	01/23/2015	01/23/2015
15A0781-12	DUP-1	Soil	01/23/2015	01/23/2015
15A0781-13	Trip Blank	Water	01/23/2015	01/23/2015
15A0781-14	SB-1 (MW)	Water	01/23/2015	01/23/2015
15A0781-15	SB-2 (MW)	Water	01/23/2015	01/23/2015
15A0781-16	SB-3 (MW)	Water	01/23/2015	01/23/2015
15A0781-17	SB-4 (MW)	Water	01/23/2015	01/23/2015
15A0781-18	DUP	Water	01/23/2015	01/23/2015

General Notes for York Project (SDG) No.: 15A0781

1. The RLs and MDLs (Reporting Limit and Method Detection Limit respectively) reported are adjusted for any dilution necessary due to the levels of target and/or non-target analytes and matrix interference. The RL(REPORTING LIMIT) is based upon the lowest standard utilized for the calibration where applicable.
2. Samples are retained for a period of thirty days after submittal of report, unless other arrangements are made.
3. York's liability for the above data is limited to the dollar value paid to York for the referenced project.
4. This report shall not be reproduced without the written approval of York Analytical Laboratories, Inc.
5. All samples were received in proper condition for analysis with proper documentation, unless otherwise noted.
6. All analyses conducted met method or Laboratory SOP requirements. See the Qualifiers and/or Narrative sections for further information.
7. It is noted that no analyses reported herein were subcontracted to another laboratory, unless noted in the report.
8. This report reflects results that relate only to the samples submitted on the attached chain-of-custody form(s) received by York.

Approved By: 

Date: 01/29/2015

Benjamin Gulizia
Laboratory Director

Sample Information

Client Sample ID: SB-1 (2.5-4.5)

York Sample ID: 15A0781-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:00 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	45	91	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
110-82-7	Cyclohexane	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
591-78-6	2-Hexanone	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
67-64-1	**Acetone**	**180**		ug/kg dry	4.5	9.1	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
107-02-8	Acrolein	ND		ug/kg dry	4.5	9.1	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
71-43-2	Benzene	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
75-25-2	Bromoform	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS

Sample Information

Client Sample ID: SB-1 (2.5-4.5)

York Sample ID: 15A0781-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:00 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
75-00-3	Chloroethane	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
67-66-3	Chloroform	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
100-41-4	**Ethyl Benzene**	**7.1**		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
79-20-9	Methyl acetate	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
75-09-2	Methylene chloride	ND		ug/kg dry	4.5	9.1	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
95-47-6	**o-Xylene**	**18**		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
179601-23-1	**p- & m- Xylenes**	**34**		ug/kg dry	4.5	9.1	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
100-42-5	Styrene	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
108-88-3	Toluene	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.3	4.5	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS
1330-20-7	**Xylenes, Total**	**52**		ug/kg dry	6.8	14	1	EPA 8260C	01/28/2015 07:50	01/28/2015 16:43	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*114 %*	*77-125*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*100 %*	*76-130*

Sample Information

Client Sample ID: SB-1 (2.5-4.5)

York Sample ID: 15A0781-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:00 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
2037-26-5	*Surrogate: Toluene-d8*	*104 %*			*85-120*						

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	**Acenaphthene**	**54.1**	J	ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
208-96-8	**Acenaphthylene**	**315**		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
98-86-2	Acetophenone	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
62-53-3	Aniline	ND		ug/kg dry	183	366	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
120-12-7	**Anthracene**	**202**		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
1912-24-9	Atrazine	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
92-87-5	Benzidine	ND		ug/kg dry	183	366	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
56-55-3	**Benzo(a)anthracene**	**904**		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
50-32-8	**Benzo(a)pyrene**	**454**		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
205-99-2	**Benzo(b)fluoranthene**	**456**		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
191-24-2	**Benzo(g,h,i)perylene**	**787**		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
65-85-0	Benzoic acid	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
207-08-9	**Benzo(k)fluoranthene**	**638**		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
105-60-2	Caprolactam	ND		ug/kg dry	91.4	183	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
86-74-8	**Carbazole**	**57.0**	J	ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
218-01-9	**Chrysene**	**1020**		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
53-70-3	**Dibenzo(a,h)anthracene**	**289**		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH

Sample Information

Client Sample ID: SB-1 (2.5-4.5)

York Sample ID: 15A0781-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:00 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	91.4	183	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	91.4	183	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
117-81-7	**Bis(2-ethylhexyl)phthalate**	**337**		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
206-44-0	**Fluoranthene**	**771**		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
86-73-7	**Fluorene**	**175**		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**629**		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
78-59-1	Isophorone	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
91-57-6	**2-Methylnaphthalene**	**110**		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
91-20-3	Naphthalene	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	91.4	183	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	91.4	183	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	91.4	183	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	91.4	183	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH

Sample Information

Client Sample ID: SB-1 (2.5-4.5)

York Sample ID: 15A0781-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:00 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
85-01-8	**Phenanthrene**	**229**		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
108-95-2	Phenol	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
129-00-0	**Pyrene**	**2430**		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	91.4	183	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	91.4	183	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	45.8	91.4	2	EPA 8270D	01/23/2015 23:21	01/26/2015 12:21	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*49.8 %*	*10-99*
4165-62-2	*Surrogate: Phenol-d5*	*54.7 %*	*10-108*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*54.0 %*	*10-119*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*53.5 %*	*10-114*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*63.0 %*	*10-106*
1718-51-0	*Surrogate: Terphenyl-d14*	*92.8 %*	*10-123*

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.71	2.71	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:24	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	2.71	2.71	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:24	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	2.71	2.71	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:24	JW
309-00-2	Aldrin	ND		ug/kg dry	2.71	2.71	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:24	JW
319-84-6	alpha-BHC	ND		ug/kg dry	2.71	2.71	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:24	JW
319-85-7	beta-BHC	ND		ug/kg dry	2.71	2.71	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:24	JW
57-74-9	Chlordane, total	ND		ug/kg dry	108	108	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:24	JW
5103-74-2	gamma-Chlordane	ND		ug/kg dry	2.71	2.71	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:24	JW
319-86-8	delta-BHC	ND		ug/kg dry	2.71	2.71	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:24	JW
60-57-1	Dieldrin	ND		ug/kg dry	2.71	2.71	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:24	JW
959-98-8	Endosulfan I	ND		ug/kg dry	2.71	2.71	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:24	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	2.71	2.71	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:24	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.71	2.71	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:24	JW
72-20-8	Endrin	ND		ug/kg dry	2.71	2.71	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:24	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.71	2.71	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:24	JW

Sample Information

Client Sample ID: SB-1 (2.5-4.5)

York Sample ID: 15A0781-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:00 pm	01/23/2015

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
53494-70-5	Endrin ketone	ND		ug/kg dry	2.71	2.71	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:24	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.71	2.71	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:24	JW
76-44-8	Heptachlor	ND		ug/kg dry	2.71	2.71	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:24	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.71	2.71	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:24	JW
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.71	2.71	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:24	JW
72-43-5	Methoxychlor	ND		ug/kg dry	13.6	13.6	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:24	JW
8001-35-2	Toxaphene	ND		ug/kg dry	137	137	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:24	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*93.1 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*93.0 %*	*30-140*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0274	0.0274	1	EPA 8082A	01/23/2015 22:02	01/26/2015 09:51	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0274	0.0274	1	EPA 8082A	01/23/2015 22:02	01/26/2015 09:51	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0274	0.0274	1	EPA 8082A	01/23/2015 22:02	01/26/2015 09:51	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0274	0.0274	1	EPA 8082A	01/23/2015 22:02	01/26/2015 09:51	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0274	0.0274	1	EPA 8082A	01/23/2015 22:02	01/26/2015 09:51	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0274	0.0274	1	EPA 8082A	01/23/2015 22:02	01/26/2015 09:51	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0274	0.0274	1	EPA 8082A	01/23/2015 22:02	01/26/2015 09:51	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0274	0.0274	1	EPA 8082A	01/23/2015 22:02	01/26/2015 09:51	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*78.8 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*58.7 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8510**		mg/kg dry	1.10	1.10	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:02	MW
7440-36-0	Antimony	ND		mg/kg dry	0.548	0.548	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:02	MW
7440-38-2	**Arsenic**	**6.43**		mg/kg dry	1.10	1.10	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:02	MW
7440-39-3	**Barium**	**137**		mg/kg dry	1.10	1.10	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:02	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.110	0.110	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:02	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.329	0.329	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:02	MW

Sample Information

Client Sample ID: SB-1 (2.5-4.5) **York Sample ID:** 15A0781-01

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:00 pm	01/23/2015

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-70-2	**Calcium**	**11500**		mg/kg dry	0.548	5.48	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:02	MW
7440-47-3	**Chromium**	**23.8**		mg/kg dry	0.548	0.548	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:02	MW
7440-48-4	**Cobalt**	**7.64**		mg/kg dry	0.548	0.548	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:02	MW
7440-50-8	**Copper**	**60.2**		mg/kg dry	0.548	0.548	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:02	MW
7439-89-6	**Iron**	**16600**		mg/kg dry	2.19	2.19	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:02	MW
7439-92-1	**Lead**	**417**		mg/kg dry	0.329	0.329	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:02	MW
7439-95-4	**Magnesium**	**6170**		mg/kg dry	5.48	5.48	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:02	MW
7439-96-5	**Manganese**	**233**		mg/kg dry	0.548	0.548	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:02	MW
7440-02-0	**Nickel**	**22.6**		mg/kg dry	0.548	0.548	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:02	MW
7440-09-7	**Potassium**	**1690**		mg/kg dry	5.48	5.48	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:02	MW
7782-49-2	**Selenium**	**3.95**		mg/kg dry	1.10	1.10	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:02	MW
7440-22-4	Silver	ND		mg/kg dry	0.548	0.548	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:02	MW
7440-23-5	**Sodium**	**245**		mg/kg dry	11.0	11.0	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:02	MW
7440-28-0	Thallium	ND		mg/kg dry	1.10	1.10	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:02	MW
7440-62-2	**Vanadium**	**26.8**		mg/kg dry	1.10	1.10	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:02	MW
7440-66-6	**Zinc**	**427**		mg/kg dry	1.10	1.10	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:02	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.130**		mg/kg dry	0.0329	0.0329	1	EPA 7473	01/26/2015 06:44	01/26/2015 10:07	ALD

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**91.3**		%	0.100	0.100	1	SM 2540G	01/26/2015 08:22	01/26/2015 15:30	KK

Sample Information

Client Sample ID: SB-1 (7-9) **York Sample ID:** 15A0781-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:05 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Information

Client Sample ID: **SB-1 (7-9)** **York Sample ID:** **15A0781-02**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:05 pm	01/23/2015

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	85	170	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
110-82-7	Cyclohexane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
78-93-3	**2-Butanone**	**12**	CCV-E	ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
591-78-6	2-Hexanone	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
67-64-1	**Acetone**	**59**	Cal-E, CCV-E	ug/kg dry	4.2	8.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
107-02-8	Acrolein	ND		ug/kg dry	4.2	8.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
71-43-2	Benzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
75-25-2	Bromoform	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS

Sample Information

Client Sample ID: SB-1 (7-9)

York Sample ID: 15A0781-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:05 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
79-20-9	Methyl acetate	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
75-09-2	**Methylene chloride**	**4.7**	J	ug/kg dry	4.2	8.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
95-47-6	**o-Xylene**	**2.2**	J	ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
179601-23-1	**p- & m- Xylenes**	**5.1**	J	ug/kg dry	4.2	8.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
100-42-5	Styrene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
108-88-3	Toluene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS
1330-20-7	**Xylenes, Total**	**7.3**	J	ug/kg dry	6.3	13	1	EPA 8260C	01/26/2015 08:00	01/26/2015 19:04	SS

	Surrogate Recoveries	Result		Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*114 %*		*77-125*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*132 %*	S-08	*76-130*
2037-26-5	*Surrogate: Toluene-d8*	*105 %*		*85-120*

Sample Information

Client Sample ID: SB-1 (7-9)

York Sample ID: 15A0781-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:05 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	**Acenaphthene**	**116**		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
208-96-8	**Acenaphthylene**	**363**		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
98-86-2	Acetophenone	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
62-53-3	Aniline	ND		ug/kg dry	185	370	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
120-12-7	**Anthracene**	**561**		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
1912-24-9	Atrazine	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
100-52-7	Benzaldehyde	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
92-87-5	Benzidine	ND		ug/kg dry	185	370	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
56-55-3	**Benzo(a)anthracene**	**814**		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
50-32-8	**Benzo(a)pyrene**	**637**		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
205-99-2	**Benzo(b)fluoranthene**	**774**		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
191-24-2	**Benzo(g,h,i)perylene**	**656**		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
65-85-0	Benzoic acid	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
207-08-9	**Benzo(k)fluoranthene**	**807**		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
105-60-2	Caprolactam	ND		ug/kg dry	92.3	184	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
86-74-8	**Carbazole**	**70.1**	J	ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
218-01-9	**Chrysene**	**1920**		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
53-70-3	**Dibenzo(a,h)anthracene**	**212**		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
132-64-9	**Dibenzofuran**	**78.2**	J	ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR

Sample Information

Client Sample ID: SB-1 (7-9)

York Sample ID: 15A0781-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:05 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	92.3	184	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	92.3	184	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
206-44-0	**Fluoranthene**	**2640**		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
86-73-7	**Fluorene**	**337**		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**589**		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
78-59-1	Isophorone	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
91-20-3	Naphthalene	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	92.3	184	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	92.3	184	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	92.3	184	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	92.3	184	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
87-86-5	**Pentachlorophenol**	**180**		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
85-01-8	**Phenanthrene**	**517**		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
108-95-2	Phenol	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
129-00-0	**Pyrene**	**2620**		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR

Sample Information

Client Sample ID: SB-1 (7-9)

York Sample ID: 15A0781-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:05 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	92.3	184	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	92.3	184	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	46.2	92.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:46	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*38.1 %*	*10-99*
4165-62-2	*Surrogate: Phenol-d5*	*47.1 %*	*10-108*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*45.0 %*	*10-119*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*59.0 %*	*10-114*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*66.9 %*	*10-106*
1718-51-0	*Surrogate: Terphenyl-d14*	*47.6 %*	*10-123*

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.74	2.74	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:43	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	2.74	2.74	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:43	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	2.74	2.74	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:43	JW
309-00-2	Aldrin	ND		ug/kg dry	2.74	2.74	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:43	JW
319-84-6	alpha-BHC	ND		ug/kg dry	2.74	2.74	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:43	JW
319-85-7	beta-BHC	ND		ug/kg dry	2.74	2.74	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:43	JW
57-74-9	Chlordane, total	ND		ug/kg dry	110	110	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:43	JW
5103-74-2	gamma-Chlordane	ND		ug/kg dry	2.74	2.74	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:43	JW
319-86-8	delta-BHC	ND		ug/kg dry	2.74	2.74	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:43	JW
60-57-1	Dieldrin	ND		ug/kg dry	2.74	2.74	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:43	JW
959-98-8	Endosulfan I	ND		ug/kg dry	2.74	2.74	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:43	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	2.74	2.74	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:43	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.74	2.74	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:43	JW
72-20-8	Endrin	ND		ug/kg dry	2.74	2.74	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:43	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.74	2.74	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:43	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	2.74	2.74	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:43	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.74	2.74	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:43	JW
76-44-8	Heptachlor	ND		ug/kg dry	2.74	2.74	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:43	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.74	2.74	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:43	JW
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.74	2.74	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:43	JW

Sample Information

Client Sample ID: SB-1 (7-9) **York Sample ID:** 15A0781-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:05 pm	01/23/2015

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-43-5	Methoxychlor	ND		ug/kg dry	13.7	13.7	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:43	JW
8001-35-2	Toxaphene	ND		ug/kg dry	139	139	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:43	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*79.7 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*80.4 %*	*30-140*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0276	0.0276	1	EPA 8082A	01/23/2015 22:02	01/26/2015 10:14	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0276	0.0276	1	EPA 8082A	01/23/2015 22:02	01/26/2015 10:14	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0276	0.0276	1	EPA 8082A	01/23/2015 22:02	01/26/2015 10:14	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0276	0.0276	1	EPA 8082A	01/23/2015 22:02	01/26/2015 10:14	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0276	0.0276	1	EPA 8082A	01/23/2015 22:02	01/26/2015 10:14	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0276	0.0276	1	EPA 8082A	01/23/2015 22:02	01/26/2015 10:14	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0276	0.0276	1	EPA 8082A	01/23/2015 22:02	01/26/2015 10:14	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0276	0.0276	1	EPA 8082A	01/23/2015 22:02	01/26/2015 10:14	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.0 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*65.7 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7860**		mg/kg dry	1.11	1.11	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:06	MW
7440-36-0	Antimony	ND		mg/kg dry	0.553	0.553	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:06	MW
7440-38-2	**Arsenic**	**4.48**		mg/kg dry	1.11	1.11	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:06	MW
7440-39-3	**Barium**	**122**		mg/kg dry	1.11	1.11	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:06	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.111	0.111	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:06	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.332	0.332	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:06	MW
7440-70-2	**Calcium**	**9550**		mg/kg dry	0.553	5.53	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:06	MW
7440-47-3	**Chromium**	**16.7**		mg/kg dry	0.553	0.553	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:06	MW
7440-48-4	**Cobalt**	**6.60**		mg/kg dry	0.553	0.553	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:06	MW
7440-50-8	**Copper**	**39.7**		mg/kg dry	0.553	0.553	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:06	MW
7439-89-6	**Iron**	**14900**		mg/kg dry	2.21	2.21	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:06	MW
7439-92-1	**Lead**	**234**		mg/kg dry	0.332	0.332	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:06	MW

Sample Information

Client Sample ID: SB-1 (7-9) **York Sample ID:** 15A0781-02

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:05 pm	01/23/2015

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**5560**		mg/kg dry	5.53	5.53	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:06	MW
7439-96-5	**Manganese**	**230**		mg/kg dry	0.553	0.553	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:06	MW
7440-02-0	**Nickel**	**16.9**		mg/kg dry	0.553	0.553	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:06	MW
7440-09-7	**Potassium**	**1500**		mg/kg dry	5.53	5.53	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:06	MW
7782-49-2	**Selenium**	**3.19**		mg/kg dry	1.11	1.11	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:06	MW
7440-22-4	Silver	ND		mg/kg dry	0.553	0.553	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:06	MW
7440-23-5	**Sodium**	**177**		mg/kg dry	11.1	11.1	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:06	MW
7440-28-0	Thallium	ND		mg/kg dry	1.11	1.11	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:06	MW
7440-62-2	**Vanadium**	**23.5**		mg/kg dry	1.11	1.11	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:06	MW
7440-66-6	**Zinc**	**271**		mg/kg dry	1.11	1.11	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:06	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.182**		mg/kg dry	0.0332	0.0332	1	EPA 7473	01/26/2015 06:44	01/26/2015 10:16	ALD

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**90.4**		%	0.100	0.100	1	SM 2540G	01/26/2015 08:22	01/26/2015 15:30	KK

Sample Information

Client Sample ID: SB-2 (1.5-3.5) **York Sample ID:** 15A0781-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:10 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS

Sample Information

Client Sample ID: SB-2 (1.5-3.5)

York Sample ID: 15A0781-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:10 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
95-63-6	**1,2,4-Trimethylbenzene**	**3200**		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
108-67-8	**1,3,5-Trimethylbenzene**	**550**		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	4200	8400	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
110-82-7	Cyclohexane	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
78-93-3	2-Butanone	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
591-78-6	2-Hexanone	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
67-64-1	Acetone	ND		ug/kg dry	420	840	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
107-02-8	Acrolein	ND		ug/kg dry	420	840	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
71-43-2	Benzene	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
75-25-2	Bromoform	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
74-83-9	Bromomethane	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
75-00-3	Chloroethane	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
67-66-3	Chloroform	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
74-87-3	Chloromethane	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS

Sample Information

Client Sample ID: SB-2 (1.5-3.5)

York Sample ID: 15A0781-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:10 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
74-95-3	Dibromomethane	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
108-87-2	Methylcyclohexane	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
79-20-9	Methyl acetate	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
75-09-2	Methylene chloride	ND		ug/kg dry	420	840	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
95-47-6	o-Xylene	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
179601-23-1	**p- & m- Xylenes**	**580**	J	ug/kg dry	420	840	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
100-42-5	Styrene	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
108-88-3	Toluene	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	210	420	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS
1330-20-7	**Xylenes, Total**	**740**	J	ug/kg dry	630	1300	100	EPA 8260C	01/28/2015 07:50	01/28/2015 13:50	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*104 %*	*77-125*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*97.5 %*	*76-130*
2037-26-5	*Surrogate: Toluene-d8*	*101 %*	*85-120*

Sample Information

Client Sample ID: SB-2 (1.5-3.5)

York Sample ID: 15A0781-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:10 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
208-96-8	**Acenaphthylene**	**325**		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
98-86-2	Acetophenone	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
62-53-3	Aniline	ND		ug/kg dry	444	889	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
120-12-7	**Anthracene**	**176**	J	ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
1912-24-9	Atrazine	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
100-52-7	Benzaldehyde	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
92-87-5	Benzidine	ND		ug/kg dry	444	889	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
56-55-3	**Benzo(a)anthracene**	**179**	J	ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
50-32-8	**Benzo(a)pyrene**	**183**	J	ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
205-99-2	**Benzo(b)fluoranthene**	**255**		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
191-24-2	**Benzo(g,h,i)perylene**	**635**		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
65-85-0	Benzoic acid	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
207-08-9	**Benzo(k)fluoranthene**	**197**	J	ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
105-60-2	Caprolactam	ND		ug/kg dry	222	443	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
86-74-8	Carbazole	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
218-01-9	**Chrysene**	**686**		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
84-74-2	**Di-n-butyl phthalate**	**521**		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR

Sample Information

Client Sample ID: SB-2 (1.5-3.5)

York Sample ID: 15A0781-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:10 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	222	443	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	222	443	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
206-44-0	**Fluoranthene**	**573**		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
86-73-7	Fluorene	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**252**		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
78-59-1	Isophorone	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
91-57-6	**2-Methylnaphthalene**	**357**		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
91-20-3	**Naphthalene**	**213**	J	ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	222	443	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	222	443	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	222	443	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	222	443	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
85-01-8	**Phenanthrene**	**475**		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
108-95-2	Phenol	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
129-00-0	**Pyrene**	**725**		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR

Sample Information

Client Sample ID: SB-2 (1.5-3.5)

York Sample ID: 15A0781-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:10 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	222	443	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	222	443	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	111	222	5	EPA 8270D	01/23/2015 23:21	01/26/2015 12:48	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*40.3 %*	*10-99*
4165-62-2	*Surrogate: Phenol-d5*	*43.4 %*	*10-108*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*41.7 %*	*10-119*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*54.2 %*	*10-114*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*56.9 %*	*10-106*
1718-51-0	*Surrogate: Terphenyl-d14*	*40.4 %*	*10-123*

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.63	2.63	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:58	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	2.63	2.63	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:58	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	2.63	2.63	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:58	JW
309-00-2	Aldrin	ND		ug/kg dry	2.63	2.63	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:58	JW
319-84-6	alpha-BHC	ND		ug/kg dry	2.63	2.63	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:58	JW
319-85-7	beta-BHC	ND		ug/kg dry	2.63	2.63	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:58	JW
57-74-9	Chlordane, total	ND		ug/kg dry	105	105	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:58	JW
5103-74-2	**gamma-Chlordane**	**4.88**		ug/kg dry	2.63	2.63	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:58	JW
319-86-8	delta-BHC	ND		ug/kg dry	2.63	2.63	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:58	JW
60-57-1	Dieldrin	ND		ug/kg dry	2.63	2.63	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:58	JW
959-98-8	Endosulfan I	ND		ug/kg dry	2.63	2.63	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:58	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	2.63	2.63	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:58	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.63	2.63	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:58	JW
72-20-8	Endrin	ND		ug/kg dry	2.63	2.63	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:58	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.63	2.63	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:58	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	2.63	2.63	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:58	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.63	2.63	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:58	JW
76-44-8	Heptachlor	ND		ug/kg dry	2.63	2.63	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:58	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.63	2.63	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:58	JW
5103-71-9	**alpha-Chlordane**	**4.64**		ug/kg dry	2.63	2.63	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:58	JW

Sample Information

Client Sample ID: SB-2 (1.5-3.5) **York Sample ID:** 15A0781-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:10 pm	01/23/2015

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-43-5	Methoxychlor	ND		ug/kg dry	13.2	13.2	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:58	JW
8001-35-2	Toxaphene	ND		ug/kg dry	133	133	5	EPA 8081B	01/23/2015 22:02	01/26/2015 10:58	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*88.9 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*85.0 %*	*30-140*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0266	0.0266	1	EPA 8082A	01/23/2015 22:02	01/26/2015 10:40	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0266	0.0266	1	EPA 8082A	01/23/2015 22:02	01/26/2015 10:40	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0266	0.0266	1	EPA 8082A	01/23/2015 22:02	01/26/2015 10:40	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0266	0.0266	1	EPA 8082A	01/23/2015 22:02	01/26/2015 10:40	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0266	0.0266	1	EPA 8082A	01/23/2015 22:02	01/26/2015 10:40	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0266	0.0266	1	EPA 8082A	01/23/2015 22:02	01/26/2015 10:40	AMC
11096-82-5	**Aroclor 1260**	**0.0585**		mg/kg dry	0.0266	0.0266	1	EPA 8082A	01/23/2015 22:02	01/26/2015 10:40	AMC
1336-36-3	*** Total PCBs**	**0.0585**		mg/kg dry	0.0266	0.0266	1	EPA 8082A	01/23/2015 22:02	01/26/2015 10:40	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.4 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*54.2 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**8140**		mg/kg dry	1.06	1.06	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:11	MW
7440-36-0	Antimony	ND		mg/kg dry	0.532	0.532	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:11	MW
7440-38-2	**Arsenic**	**4.80**		mg/kg dry	1.06	1.06	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:11	MW
7440-39-3	**Barium**	**186**		mg/kg dry	1.06	1.06	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:11	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.106	0.106	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:11	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.319	0.319	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:11	MW
7440-70-2	**Calcium**	**8910**		mg/kg dry	0.532	5.32	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:11	MW
7440-47-3	**Chromium**	**20.0**		mg/kg dry	0.532	0.532	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:11	MW
7440-48-4	**Cobalt**	**6.90**		mg/kg dry	0.532	0.532	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:11	MW
7440-50-8	**Copper**	**68.1**		mg/kg dry	0.532	0.532	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:11	MW
7439-89-6	**Iron**	**15500**		mg/kg dry	2.13	2.13	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:11	MW
7439-92-1	**Lead**	**322**		mg/kg dry	0.319	0.319	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:11	MW

Sample Information

Client Sample ID: SB-2 (1.5-3.5) **York Sample ID:** 15A0781-03

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:10 pm	01/23/2015

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**3530**		mg/kg dry	5.32	5.32	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:11	MW
7439-96-5	**Manganese**	**249**		mg/kg dry	0.532	0.532	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:11	MW
7440-02-0	**Nickel**	**18.8**		mg/kg dry	0.532	0.532	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:11	MW
7440-09-7	**Potassium**	**1550**		mg/kg dry	5.32	5.32	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:11	MW
7782-49-2	**Selenium**	**4.16**		mg/kg dry	1.06	1.06	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:11	MW
7440-22-4	Silver	ND		mg/kg dry	0.532	0.532	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:11	MW
7440-23-5	**Sodium**	**196**		mg/kg dry	10.6	10.6	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:11	MW
7440-28-0	Thallium	ND		mg/kg dry	1.06	1.06	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:11	MW
7440-62-2	**Vanadium**	**27.1**		mg/kg dry	1.06	1.06	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:11	MW
7440-66-6	**Zinc**	**193**		mg/kg dry	1.06	1.06	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:11	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.200**		mg/kg dry	0.0319	0.0319	1	EPA 7473	01/26/2015 06:44	01/26/2015 10:25	ALD

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**94.0**		%	0.100	0.100	1	SM 2540G	01/26/2015 08:22	01/26/2015 15:30	KK

Sample Information

Client Sample ID: SB-2 (8-10) **York Sample ID:** 15A0781-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:15 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS

Sample Information

Client Sample ID: SB-2 (8-10)

York Sample ID: 15A0781-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:15 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	71	140	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
110-82-7	Cyclohexane	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
78-93-3	2-Butanone	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
591-78-6	2-Hexanone	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
67-64-1	Acetone	ND		ug/kg dry	3.5	7.1	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
107-02-8	Acrolein	ND		ug/kg dry	3.5	7.1	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
71-43-2	Benzene	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
75-25-2	Bromoform	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
75-00-3	Chloroethane	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
67-66-3	Chloroform	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
74-87-3	Chloromethane	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS

Sample Information

Client Sample ID: **SB-2 (8-10)** **York Sample ID:** **15A0781-04**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:15 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
74-95-3	Dibromomethane	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
108-87-2	Methylcyclohexane	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
79-20-9	Methyl acetate	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
75-09-2	Methylene chloride	ND		ug/kg dry	3.5	7.1	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
95-47-6	o-Xylene	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	3.5	7.1	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
100-42-5	Styrene	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
108-88-3	Toluene	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	1.8	3.5	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	5.3	11	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:14	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*110 %*	*77-125*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*99.7 %*	*76-130*
2037-26-5	*Surrogate: Toluene-d8*	*97.4 %*	*85-120*

Sample Information

Client Sample ID: SB-2 (8-10)

York Sample ID: 15A0781-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:15 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
98-86-2	Acetophenone	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
62-53-3	Aniline	ND		ug/kg dry	96.8	194	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
120-12-7	Anthracene	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
1912-24-9	Atrazine	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
92-87-5	Benzidine	ND		ug/kg dry	96.8	194	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
56-55-3	Benzo(a)anthracene	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
65-85-0	Benzoic acid	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
105-60-2	Caprolactam	ND		ug/kg dry	48.4	96.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
86-74-8	Carbazole	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
218-01-9	Chrysene	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH

Sample Information

Client Sample ID: SB-2 (8-10)

York Sample ID: 15A0781-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:15 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	48.4	96.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	48.4	96.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
206-44-0	Fluoranthene	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
86-73-7	Fluorene	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
78-59-1	Isophorone	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
91-20-3	Naphthalene	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	48.4	96.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	48.4	96.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	48.4	96.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	48.4	96.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
85-01-8	Phenanthrene	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH

Sample Information

Client Sample ID: SB-2 (8-10) **York Sample ID:** 15A0781-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:15 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-95-2	Phenol	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
129-00-0	Pyrene	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	48.4	96.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	48.4	96.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	24.2	48.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:46	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*46.2 %*	*10-99*
4165-62-2	*Surrogate: Phenol-d5*	*50.6 %*	*10-108*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*49.6 %*	*10-119*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*43.1 %*	*10-114*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*54.2 %*	*10-106*
1718-51-0	*Surrogate: Terphenyl-d14*	*44.4 %*	*10-123*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.87	2.87	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:13	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	2.87	2.87	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:13	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	2.87	2.87	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:13	JW
309-00-2	Aldrin	ND		ug/kg dry	2.87	2.87	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:13	JW
319-84-6	alpha-BHC	ND		ug/kg dry	2.87	2.87	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:13	JW
319-85-7	beta-BHC	ND		ug/kg dry	2.87	2.87	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:13	JW
57-74-9	Chlordane, total	ND		ug/kg dry	115	115	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:13	JW
5103-74-2	gamma-Chlordane	ND		ug/kg dry	2.87	2.87	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:13	JW
319-86-8	delta-BHC	ND		ug/kg dry	2.87	2.87	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:13	JW
60-57-1	Dieldrin	ND		ug/kg dry	2.87	2.87	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:13	JW
959-98-8	Endosulfan I	ND		ug/kg dry	2.87	2.87	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:13	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	2.87	2.87	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:13	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.87	2.87	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:13	JW
72-20-8	Endrin	ND		ug/kg dry	2.87	2.87	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:13	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.87	2.87	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:13	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	2.87	2.87	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:13	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.87	2.87	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:13	JW
76-44-8	Heptachlor	ND		ug/kg dry	2.87	2.87	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:13	JW

Sample Information

Client Sample ID: SB-2 (8-10)

York Sample ID: 15A0781-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:15 pm	01/23/2015

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.87	2.87	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:13	JW
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.87	2.87	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:13	JW
72-43-5	Methoxychlor	ND		ug/kg dry	14.4	14.4	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:13	JW
8001-35-2	Toxaphene	ND		ug/kg dry	145	145	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:13	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*97.8 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*115 %*	*30-140*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0290	0.0290	1	EPA 8082A	01/23/2015 22:02	01/26/2015 11:04	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0290	0.0290	1	EPA 8082A	01/23/2015 22:02	01/26/2015 11:04	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0290	0.0290	1	EPA 8082A	01/23/2015 22:02	01/26/2015 11:04	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0290	0.0290	1	EPA 8082A	01/23/2015 22:02	01/26/2015 11:04	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0290	0.0290	1	EPA 8082A	01/23/2015 22:02	01/26/2015 11:04	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0290	0.0290	1	EPA 8082A	01/23/2015 22:02	01/26/2015 11:04	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0290	0.0290	1	EPA 8082A	01/23/2015 22:02	01/26/2015 11:04	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0290	0.0290	1	EPA 8082A	01/23/2015 22:02	01/26/2015 11:04	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*82.3 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*56.2 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**13000**		mg/kg dry	1.16	1.16	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:16	MW
7440-36-0	Antimony	ND		mg/kg dry	0.580	0.580	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:16	MW
7440-38-2	**Arsenic**	**4.33**		mg/kg dry	1.16	1.16	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:16	MW
7440-39-3	**Barium**	**88.8**		mg/kg dry	1.16	1.16	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:16	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.116	0.116	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:16	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.348	0.348	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:16	MW
7440-70-2	**Calcium**	**2610**		mg/kg dry	0.580	5.80	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:16	MW
7440-47-3	**Chromium**	**23.4**		mg/kg dry	0.580	0.580	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:16	MW
7440-48-4	**Cobalt**	**7.74**		mg/kg dry	0.580	0.580	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:16	MW

Sample Information

Client Sample ID: SB-2 (8-10) **York Sample ID:** 15A0781-04

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:15 pm	01/23/2015

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**19.5**		mg/kg dry	0.580	0.580	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:16	MW
7439-89-6	**Iron**	**18700**		mg/kg dry	2.32	2.32	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:16	MW
7439-92-1	**Lead**	**8.39**		mg/kg dry	0.348	0.348	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:16	MW
7439-95-4	**Magnesium**	**4230**		mg/kg dry	5.80	5.80	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:16	MW
7439-96-5	**Manganese**	**220**		mg/kg dry	0.580	0.580	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:16	MW
7440-02-0	**Nickel**	**21.0**		mg/kg dry	0.580	0.580	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:16	MW
7440-09-7	**Potassium**	**1230**		mg/kg dry	5.80	5.80	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:16	MW
7782-49-2	**Selenium**	**3.08**		mg/kg dry	1.16	1.16	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:16	MW
7440-22-4	Silver	ND		mg/kg dry	0.580	0.580	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:16	MW
7440-23-5	**Sodium**	**101**		mg/kg dry	11.6	11.6	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:16	MW
7440-28-0	Thallium	ND		mg/kg dry	1.16	1.16	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:16	MW
7440-62-2	**Vanadium**	**29.1**		mg/kg dry	1.16	1.16	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:16	MW
7440-66-6	**Zinc**	**44.9**		mg/kg dry	1.16	1.16	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:16	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0348	0.0348	1	EPA 7473	01/26/2015 06:44	01/26/2015 10:34	ALD

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**86.2**		%	0.100	0.100	1	SM 2540G	01/26/2015 08:22	01/26/2015 15:30	KK

Sample Information

Client Sample ID: SB-3 (1-3) **York Sample ID:** 15A0781-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:20 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS

Sample Information

Client Sample ID: SB-3 (1-3)

York Sample ID: 15A0781-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:20 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	76	150	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
110-82-7	Cyclohexane	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
78-93-3	2-Butanone	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
591-78-6	2-Hexanone	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
67-64-1	Acetone	ND		ug/kg dry	3.8	7.6	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
107-02-8	Acrolein	ND		ug/kg dry	3.8	7.6	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
71-43-2	Benzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
75-25-2	Bromoform	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
75-00-3	Chloroethane	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
67-66-3	Chloroform	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS

Sample Information

Client Sample ID: **SB-3 (1-3)** **York Sample ID:** **15A0781-05**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:20 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
74-95-3	Dibromomethane	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
100-41-4	**Ethyl Benzene**	**4.3**		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
108-87-2	Methylcyclohexane	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
79-20-9	Methyl acetate	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
75-09-2	Methylene chloride	ND		ug/kg dry	3.8	7.6	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
95-47-6	**o-Xylene**	**9.1**		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
179601-23-1	**p- & m- Xylenes**	**20**		ug/kg dry	3.8	7.6	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
100-42-5	Styrene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
127-18-4	**Tetrachloroethylene**	**5.2**		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
108-88-3	Toluene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	1.9	3.8	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS
1330-20-7	**Xylenes, Total**	**29**		ug/kg dry	5.7	11	1	EPA 8260C	01/26/2015 08:00	01/26/2015 20:50	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*115 %*	*77-125*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*105 %*	*76-130*
2037-26-5	*Surrogate: Toluene-d8*	*103 %*	*85-120*

Sample Information

Client Sample ID: SB-3 (1-3)

York Sample ID: 15A0781-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:20 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
98-86-2	Acetophenone	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
62-53-3	Aniline	ND		ug/kg dry	187	373	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
120-12-7	**Anthracene**	**103**		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
1912-24-9	Atrazine	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
100-52-7	Benzaldehyde	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
92-87-5	Benzidine	ND		ug/kg dry	187	373	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
56-55-3	**Benzo(a)anthracene**	**387**		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
50-32-8	**Benzo(a)pyrene**	**250**		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
205-99-2	**Benzo(b)fluoranthene**	**297**		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
191-24-2	**Benzo(g,h,i)perylene**	**179**		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
65-85-0	Benzoic acid	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
207-08-9	**Benzo(k)fluoranthene**	**351**		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
105-60-2	Caprolactam	ND		ug/kg dry	93.3	186	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
86-74-8	**Carbazole**	**83.5**	J	ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
218-01-9	**Chrysene**	**843**		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
53-70-3	**Dibenzo(a,h)anthracene**	**73.1**	J	ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
132-64-9	**Dibenzofuran**	**73.1**	J	ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR

Sample Information

Client Sample ID: SB-3 (1-3)

York Sample ID: 15A0781-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:20 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	93.3	186	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	93.3	186	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
206-44-0	**Fluoranthene**	**1580**		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
86-73-7	**Fluorene**	**76.8**	J	ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**176**		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
78-59-1	Isophorone	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
91-57-6	**2-Methylnaphthalene**	**78.3**	J	ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
91-20-3	**Naphthalene**	**90.9**	J	ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	93.3	186	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	93.3	186	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	93.3	186	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	93.3	186	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
85-01-8	**Phenanthrene**	**1440**		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
108-95-2	Phenol	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
129-00-0	**Pyrene**	**1390**		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR

Sample Information

Client Sample ID: SB-3 (1-3) **York Sample ID:** 15A0781-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:20 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	93.3	186	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	93.3	186	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	46.7	93.3	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:15	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*53.2 %*	*10-99*
4165-62-2	*Surrogate: Phenol-d5*	*58.6 %*	*10-108*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*55.5 %*	*10-119*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*67.5 %*	*10-114*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*69.4 %*	*10-106*
1718-51-0	*Surrogate: Terphenyl-d14*	*65.3 %*	*10-123*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.77	2.77	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:28	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	2.77	2.77	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:28	JW
50-29-3	**4,4'-DDT**	**4.25**		ug/kg dry	2.77	2.77	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:28	JW
309-00-2	Aldrin	ND		ug/kg dry	2.77	2.77	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:28	JW
319-84-6	alpha-BHC	ND		ug/kg dry	2.77	2.77	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:28	JW
319-85-7	beta-BHC	ND		ug/kg dry	2.77	2.77	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:28	JW
57-74-9	Chlordane, total	ND		ug/kg dry	111	111	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:28	JW
5103-74-2	gamma-Chlordane	ND		ug/kg dry	2.77	2.77	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:28	JW
319-86-8	delta-BHC	ND		ug/kg dry	2.77	2.77	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:28	JW
60-57-1	Dieldrin	ND		ug/kg dry	2.77	2.77	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:28	JW
959-98-8	Endosulfan I	ND		ug/kg dry	2.77	2.77	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:28	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	2.77	2.77	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:28	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.77	2.77	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:28	JW
72-20-8	Endrin	ND		ug/kg dry	2.77	2.77	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:28	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.77	2.77	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:28	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	2.77	2.77	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:28	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.77	2.77	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:28	JW
76-44-8	Heptachlor	ND		ug/kg dry	2.77	2.77	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:28	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.77	2.77	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:28	JW
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.77	2.77	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:28	JW

Sample Information

Client Sample ID: SB-3 (1-3) **York Sample ID:** 15A0781-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:20 pm	01/23/2015

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-43-5	Methoxychlor	ND		ug/kg dry	13.8	13.8	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:28	JW
8001-35-2	Toxaphene	ND		ug/kg dry	140	140	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:28	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*101 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*83.5 %*	*30-140*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0279	0.0279	1	EPA 8082A	01/23/2015 22:02	01/26/2015 11:30	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0279	0.0279	1	EPA 8082A	01/23/2015 22:02	01/26/2015 11:30	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0279	0.0279	1	EPA 8082A	01/23/2015 22:02	01/26/2015 11:30	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0279	0.0279	1	EPA 8082A	01/23/2015 22:02	01/26/2015 11:30	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0279	0.0279	1	EPA 8082A	01/23/2015 22:02	01/26/2015 11:30	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0279	0.0279	1	EPA 8082A	01/23/2015 22:02	01/26/2015 11:30	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0279	0.0279	1	EPA 8082A	01/23/2015 22:02	01/26/2015 11:30	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0279	0.0279	1	EPA 8082A	01/23/2015 22:02	01/26/2015 11:30	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*88.2 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*61.7 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9410**		mg/kg dry	1.12	1.12	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:21	MW
7440-36-0	Antimony	ND		mg/kg dry	0.559	0.559	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:21	MW
7440-38-2	**Arsenic**	**5.92**		mg/kg dry	1.12	1.12	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:21	MW
7440-39-3	**Barium**	**110**		mg/kg dry	1.12	1.12	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:21	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.112	0.112	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:21	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.335	0.335	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:21	MW
7440-70-2	**Calcium**	**11900**		mg/kg dry	0.559	5.59	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:21	MW
7440-47-3	**Chromium**	**17.8**		mg/kg dry	0.559	0.559	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:21	MW
7440-48-4	**Cobalt**	**6.79**		mg/kg dry	0.559	0.559	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:21	MW
7440-50-8	**Copper**	**55.2**		mg/kg dry	0.559	0.559	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:21	MW
7439-89-6	**Iron**	**15800**		mg/kg dry	2.24	2.24	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:21	MW
7439-92-1	**Lead**	**221**		mg/kg dry	0.335	0.335	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:21	MW

Sample Information

Client Sample ID: SB-3 (1-3) **York Sample ID:** 15A0781-05

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:20 pm	01/23/2015

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**8000**		mg/kg dry	5.59	5.59	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:21	MW
7439-96-5	**Manganese**	**303**		mg/kg dry	0.559	0.559	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:21	MW
7440-02-0	**Nickel**	**18.0**		mg/kg dry	0.559	0.559	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:21	MW
7440-09-7	**Potassium**	**1380**		mg/kg dry	5.59	5.59	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:21	MW
7782-49-2	**Selenium**	**3.46**		mg/kg dry	1.12	1.12	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:21	MW
7440-22-4	Silver	ND		mg/kg dry	0.559	0.559	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:21	MW
7440-23-5	**Sodium**	**128**		mg/kg dry	11.2	11.2	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:21	MW
7440-28-0	Thallium	ND		mg/kg dry	1.12	1.12	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:21	MW
7440-62-2	**Vanadium**	**24.3**		mg/kg dry	1.12	1.12	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:21	MW
7440-66-6	**Zinc**	**275**		mg/kg dry	1.12	1.12	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:21	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.144**		mg/kg dry	0.0335	0.0335	1	EPA 7473	01/26/2015 06:44	01/26/2015 10:43	ALD

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**89.4**		%	0.100	0.100	1	SM 2540G	01/26/2015 08:22	01/26/2015 15:30	KK

Sample Information

Client Sample ID: SB-4 (1.5-3.5) **York Sample ID:** 15A0781-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:30 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes: Rep-04

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS

Sample Information

Client Sample ID: SB-4 (1.5-3.5)

York Sample ID: 15A0781-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:30 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes: Rep-04

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	10000	20000	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
110-82-7	Cyclohexane	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
78-93-3	2-Butanone	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
591-78-6	2-Hexanone	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
67-64-1	Acetone	ND		ug/kg dry	500	1000	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
107-02-8	Acrolein	ND		ug/kg dry	500	1000	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
71-43-2	Benzene	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
75-25-2	Bromoform	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
74-83-9	Bromomethane	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
75-00-3	Chloroethane	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
67-66-3	Chloroform	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
74-87-3	Chloromethane	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS

Sample Information

Client Sample ID: SB-4 (1.5-3.5)

York Sample ID: 15A0781-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:30 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes: Rep-04

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
74-95-3	Dibromomethane	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
108-87-2	Methylcyclohexane	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
79-20-9	Methyl acetate	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
75-09-2	**Methylene chloride**	**800**	J	ug/kg dry	500	1000	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
95-47-6	o-Xylene	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	500	1000	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
100-42-5	Styrene	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
108-88-3	Toluene	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	250	500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	750	1500	100	EPA 8260C	01/26/2015 14:15	01/27/2015 07:26	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*109 %*	*77-125*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*92.9 %*	*76-130*
2037-26-5	*Surrogate: Toluene-d8*	*100 %*	*85-120*

Sample Information

Client Sample ID: SB-4 (1.5-3.5)

York Sample ID: 15A0781-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:30 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	**Acenaphthene**	**4980**		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
208-96-8	**Acenaphthylene**	**12200**		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
98-86-2	Acetophenone	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
62-53-3	Aniline	ND		ug/kg dry	4730	9450	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
120-12-7	**Anthracene**	**19100**		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
1912-24-9	Atrazine	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
100-52-7	Benzaldehyde	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
92-87-5	Benzidine	ND		ug/kg dry	4730	9450	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
56-55-3	**Benzo(a)anthracene**	**14000**		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
50-32-8	**Benzo(a)pyrene**	**6430**		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
205-99-2	**Benzo(b)fluoranthene**	**7150**		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
191-24-2	**Benzo(g,h,i)perylene**	**6730**		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
65-85-0	Benzoic acid	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
207-08-9	**Benzo(k)fluoranthene**	**10000**		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
92-52-4	**1,1'-Biphenyl**	**3110**		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
105-60-2	Caprolactam	ND		ug/kg dry	2360	4710	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
86-74-8	**Carbazole**	**7960**		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
218-01-9	**Chrysene**	**31300**		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
53-70-3	**Dibenzo(a,h)anthracene**	**3850**		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
132-64-9	**Dibenzofuran**	**12500**		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR

Sample Information

Client Sample ID: SB-4 (1.5-3.5)

York Sample ID: 15A0781-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:30 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	2360	4710	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	2360	4710	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
206-44-0	**Fluoranthene**	**61000**		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
86-73-7	**Fluorene**	**26500**		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**6900**		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
78-59-1	Isophorone	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
91-57-6	**2-Methylnaphthalene**	**17400**		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
91-20-3	**Naphthalene**	**15400**		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	2360	4710	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	2360	4710	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	2360	4710	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	2360	4710	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
85-01-8	**Phenanthrene**	**90300**		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
108-95-2	Phenol	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
129-00-0	**Pyrene**	**48400**		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR

Sample Information

Client Sample ID: SB-4 (1.5-3.5)

York Sample ID: 15A0781-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:30 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	2360	4710	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	2360	4710	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	1180	2360	50	EPA 8270D	01/23/2015 23:21	01/26/2015 14:22	SR

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*42.7 %*		*10-99*
4165-62-2	*Surrogate: Phenol-d5*	*59.8 %*		*10-108*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*54.0 %*		*10-119*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*71.7 %*		*10-114*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*50.0 %*		*10-106*
1718-51-0	*Surrogate: Terphenyl-d14*	*%*	S-06	*10-123*

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.80	2.80	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:43	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	2.80	2.80	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:43	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	2.80	2.80	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:43	JW
309-00-2	Aldrin	ND		ug/kg dry	2.80	2.80	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:43	JW
319-84-6	alpha-BHC	ND		ug/kg dry	2.80	2.80	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:43	JW
319-85-7	beta-BHC	ND		ug/kg dry	2.80	2.80	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:43	JW
57-74-9	Chlordane, total	ND		ug/kg dry	112	112	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:43	JW
5103-74-2	gamma-Chlordane	ND		ug/kg dry	2.80	2.80	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:43	JW
319-86-8	delta-BHC	ND		ug/kg dry	2.80	2.80	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:43	JW
60-57-1	Dieldrin	ND		ug/kg dry	2.80	2.80	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:43	JW
959-98-8	Endosulfan I	ND		ug/kg dry	2.80	2.80	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:43	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	2.80	2.80	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:43	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.80	2.80	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:43	JW
72-20-8	Endrin	ND		ug/kg dry	2.80	2.80	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:43	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.80	2.80	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:43	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	2.80	2.80	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:43	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.80	2.80	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:43	JW
76-44-8	Heptachlor	ND		ug/kg dry	2.80	2.80	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:43	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.80	2.80	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:43	JW
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.80	2.80	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:43	JW

Sample Information

Client Sample ID: SB-4 (1.5-3.5) **York Sample ID:** 15A0781-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:30 pm	01/23/2015

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-43-5	Methoxychlor	ND		ug/kg dry	14.0	14.0	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:43	JW
8001-35-2	Toxaphene	ND		ug/kg dry	142	142	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:43	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*87.6 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*79.0 %*	*30-140*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0283	0.0283	1	EPA 8082A	01/23/2015 22:02	01/26/2015 11:54	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0283	0.0283	1	EPA 8082A	01/23/2015 22:02	01/26/2015 11:54	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0283	0.0283	1	EPA 8082A	01/23/2015 22:02	01/26/2015 11:54	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0283	0.0283	1	EPA 8082A	01/23/2015 22:02	01/26/2015 11:54	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0283	0.0283	1	EPA 8082A	01/23/2015 22:02	01/26/2015 11:54	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0283	0.0283	1	EPA 8082A	01/23/2015 22:02	01/26/2015 11:54	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0283	0.0283	1	EPA 8082A	01/23/2015 22:02	01/26/2015 11:54	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0283	0.0283	1	EPA 8082A	01/23/2015 22:02	01/26/2015 11:54	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*77.8 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*58.7 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9240**		mg/kg dry	1.13	1.13	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:25	MW
7440-36-0	Antimony	ND		mg/kg dry	0.566	0.566	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:25	MW
7440-38-2	**Arsenic**	**5.40**		mg/kg dry	1.13	1.13	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:25	MW
7440-39-3	**Barium**	**169**		mg/kg dry	1.13	1.13	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:25	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.113	0.113	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:25	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.340	0.340	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:25	MW
7440-70-2	**Calcium**	**3210**		mg/kg dry	0.566	5.66	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:25	MW
7440-47-3	**Chromium**	**19.9**		mg/kg dry	0.566	0.566	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:25	MW
7440-48-4	**Cobalt**	**7.47**		mg/kg dry	0.566	0.566	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:25	MW
7440-50-8	**Copper**	**37.7**		mg/kg dry	0.566	0.566	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:25	MW
7439-89-6	**Iron**	**15300**		mg/kg dry	2.26	2.26	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:25	MW
7439-92-1	**Lead**	**249**		mg/kg dry	0.340	0.340	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:25	MW

Sample Information

Client Sample ID: SB-4 (1.5-3.5) **York Sample ID:** 15A0781-06

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:30 pm	01/23/2015

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**3290**		mg/kg dry	5.66	5.66	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:25	MW
7439-96-5	**Manganese**	**183**		mg/kg dry	0.566	0.566	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:25	MW
7440-02-0	**Nickel**	**18.0**		mg/kg dry	0.566	0.566	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:25	MW
7440-09-7	**Potassium**	**1410**		mg/kg dry	5.66	5.66	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:25	MW
7782-49-2	**Selenium**	**3.63**		mg/kg dry	1.13	1.13	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:25	MW
7440-22-4	Silver	ND		mg/kg dry	0.566	0.566	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:25	MW
7440-23-5	**Sodium**	**135**		mg/kg dry	11.3	11.3	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:25	MW
7440-28-0	Thallium	ND		mg/kg dry	1.13	1.13	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:25	MW
7440-62-2	**Vanadium**	**26.1**		mg/kg dry	1.13	1.13	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:25	MW
7440-66-6	**Zinc**	**147**		mg/kg dry	1.13	1.13	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:25	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.141**		mg/kg dry	0.0340	0.0340	1	EPA 7473	01/26/2015 06:44	01/26/2015 10:53	ALD

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**88.4**		%	0.100	0.100	1	SM 2540G	01/26/2015 08:22	01/26/2015 15:30	KK

Sample Information

Client Sample ID: SB-3 (11-13) **York Sample ID:** 15A0781-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:25 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS

Sample Information

Client Sample ID: SB-3 (11-13) **York Sample ID:** 15A0781-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:25 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
95-63-6	**1,2,4-Trimethylbenzene**	**460**		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	7300	15000	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
110-82-7	Cyclohexane	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
78-93-3	2-Butanone	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
591-78-6	2-Hexanone	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
67-64-1	Acetone	ND		ug/kg dry	360	730	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
107-02-8	Acrolein	ND		ug/kg dry	360	730	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
71-43-2	Benzene	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
75-25-2	Bromoform	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
74-83-9	Bromomethane	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
75-00-3	Chloroethane	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
67-66-3	Chloroform	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
74-87-3	Chloromethane	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS

Sample Information

Client Sample ID: SB-3 (11-13)

York Sample ID: 15A0781-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:25 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
74-95-3	Dibromomethane	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
108-87-2	**Methylcyclohexane**	**1400**		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
79-20-9	Methyl acetate	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
75-09-2	**Methylene chloride**	**440**	J	ug/kg dry	360	730	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
104-51-8	**n-Butylbenzene**	**450**		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
103-65-1	**n-Propylbenzene**	**510**		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
95-47-6	o-Xylene	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	360	730	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
100-42-5	Styrene	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
108-88-3	Toluene	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	180	360	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	550	1100	100	EPA 8260C	01/26/2015 14:15	01/27/2015 08:01	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*96.8 %*	*77-125*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*94.0 %*	*76-130*
2037-26-5	*Surrogate: Toluene-d8*	*105 %*	*85-120*

Sample Information

Client Sample ID: SB-3 (11-13)

York Sample ID: 15A0781-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:25 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	**Acenaphthene**	**28.3**	J	ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
208-96-8	Acenaphthylene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
98-86-2	Acetophenone	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
62-53-3	Aniline	ND		ug/kg dry	90.9	182	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
120-12-7	Anthracene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
1912-24-9	Atrazine	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
92-87-5	Benzidine	ND		ug/kg dry	90.9	182	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
56-55-3	**Benzo(a)anthracene**	**76.9**		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
50-32-8	**Benzo(a)pyrene**	**49.4**		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
205-99-2	**Benzo(b)fluoranthene**	**87.5**		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
65-85-0	Benzoic acid	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
207-08-9	**Benzo(k)fluoranthene**	**108**		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
105-60-2	Caprolactam	ND		ug/kg dry	45.4	90.7	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
86-74-8	Carbazole	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
218-01-9	**Chrysene**	**103**		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
132-64-9	Dibenzofuran	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH

Sample Information

Client Sample ID: SB-3 (11-13)

York Sample ID: 15A0781-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:25 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	45.4	90.7	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	45.4	90.7	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
206-44-0	**Fluoranthene**	**217**		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
86-73-7	**Fluorene**	**42.5**	J	ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**26.9**	J	ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
78-59-1	Isophorone	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
91-57-6	**2-Methylnaphthalene**	**1080**		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
91-20-3	Naphthalene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	45.4	90.7	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	45.4	90.7	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	45.4	90.7	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	45.4	90.7	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
85-01-8	**Phenanthrene**	**305**		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
108-95-2	Phenol	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH

Sample Information

Client Sample ID: SB-3 (11-13) **York Sample ID:** 15A0781-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:25 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
129-00-0	**Pyrene**	**210**		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	45.4	90.7	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	45.4	90.7	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 11:18	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*55.4 %*	*10-99*
4165-62-2	*Surrogate: Phenol-d5*	*58.8 %*	*10-108*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*64.7 %*	*10-119*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*47.6 %*	*10-114*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*64.2 %*	*10-106*
1718-51-0	*Surrogate: Terphenyl-d14*	*48.9 %*	*10-123*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:58	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:58	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:58	JW
309-00-2	Aldrin	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:58	JW
319-84-6	alpha-BHC	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:58	JW
319-85-7	beta-BHC	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:58	JW
57-74-9	Chlordane, total	ND		ug/kg dry	108	108	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:58	JW
5103-74-2	gamma-Chlordane	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:58	JW
319-86-8	delta-BHC	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:58	JW
60-57-1	Dieldrin	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:58	JW
959-98-8	Endosulfan I	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:58	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:58	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:58	JW
72-20-8	Endrin	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:58	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:58	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:58	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:58	JW
76-44-8	Heptachlor	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:58	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:58	JW

Sample Information

Client Sample ID: SB-3 (11-13) **York Sample ID:** 15A0781-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:25 pm	01/23/2015

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:58	JW
72-43-5	Methoxychlor	ND		ug/kg dry	13.5	13.5	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:58	JW
8001-35-2	Toxaphene	ND		ug/kg dry	136	136	5	EPA 8081B	01/23/2015 22:02	01/26/2015 11:58	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*93.3 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*108 %*	*30-140*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0272	0.0272	1	EPA 8082A	01/23/2015 22:02	01/26/2015 12:17	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0272	0.0272	1	EPA 8082A	01/23/2015 22:02	01/26/2015 12:17	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0272	0.0272	1	EPA 8082A	01/23/2015 22:02	01/26/2015 12:17	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0272	0.0272	1	EPA 8082A	01/23/2015 22:02	01/26/2015 12:17	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0272	0.0272	1	EPA 8082A	01/23/2015 22:02	01/26/2015 12:17	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0272	0.0272	1	EPA 8082A	01/23/2015 22:02	01/26/2015 12:17	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0272	0.0272	1	EPA 8082A	01/23/2015 22:02	01/26/2015 12:17	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0272	0.0272	1	EPA 8082A	01/23/2015 22:02	01/26/2015 12:17	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*87.7 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*65.7 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**5210**		mg/kg dry	1.09	1.09	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:30	MW
7440-36-0	Antimony	ND		mg/kg dry	0.544	0.544	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:30	MW
7440-38-2	**Arsenic**	**2.45**		mg/kg dry	1.09	1.09	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:30	MW
7440-39-3	**Barium**	**36.1**		mg/kg dry	1.09	1.09	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:30	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.109	0.109	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:30	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.327	0.327	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:30	MW
7440-70-2	**Calcium**	**3630**		mg/kg dry	0.544	5.44	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:30	MW
7440-47-3	**Chromium**	**10.2**		mg/kg dry	0.544	0.544	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:30	MW
7440-48-4	**Cobalt**	**5.30**		mg/kg dry	0.544	0.544	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:30	MW
7440-50-8	**Copper**	**16.6**		mg/kg dry	0.544	0.544	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:30	MW

Sample Information

Client Sample ID: SB-3 (11-13) **York Sample ID:** 15A0781-07

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:25 pm	01/23/2015

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	**Iron**	**11900**		mg/kg dry	2.18	2.18	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:30	MW
7439-92-1	**Lead**	**9.13**		mg/kg dry	0.327	0.327	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:30	MW
7439-95-4	**Magnesium**	**2780**		mg/kg dry	5.44	5.44	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:30	MW
7439-96-5	**Manganese**	**137**		mg/kg dry	0.544	0.544	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:30	MW
7440-02-0	**Nickel**	**15.1**		mg/kg dry	0.544	0.544	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:30	MW
7440-09-7	**Potassium**	**1460**		mg/kg dry	5.44	5.44	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:30	MW
7782-49-2	**Selenium**	**2.38**		mg/kg dry	1.09	1.09	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:30	MW
7440-22-4	Silver	ND		mg/kg dry	0.544	0.544	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:30	MW
7440-23-5	**Sodium**	**144**		mg/kg dry	10.9	10.9	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:30	MW
7440-28-0	Thallium	ND		mg/kg dry	1.09	1.09	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:30	MW
7440-62-2	**Vanadium**	**16.1**		mg/kg dry	1.09	1.09	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:30	MW
7440-66-6	**Zinc**	**24.5**		mg/kg dry	1.09	1.09	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:30	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0327	0.0327	1	EPA 7473	01/26/2015 06:44	01/26/2015 11:02	ALD

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**91.9**		%	0.100	0.100	1	SM 2540G	01/26/2015 08:22	01/26/2015 15:30	KK

Sample Information

Client Sample ID: SB-4 (6-8) **York Sample ID:** 15A0781-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:35 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS

Sample Information

Client Sample ID: **SB-4 (6-8)** **York Sample ID:** **15A0781-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:35 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	90	180	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
110-82-7	Cyclohexane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
78-93-3	**2-Butanone**	**16**		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
591-78-6	2-Hexanone	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
67-64-1	**Acetone**	**78**	Cal-E	ug/kg dry	4.5	9.0	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
107-02-8	Acrolein	ND		ug/kg dry	4.5	9.0	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
71-43-2	Benzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
75-25-2	Bromoform	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
67-66-3	Chloroform	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS

Sample Information

Client Sample ID: **SB-4 (6-8)** **York Sample ID:** **15A0781-08**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:35 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
100-41-4	**Ethyl Benzene**	**6.7**		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
79-20-9	Methyl acetate	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
75-09-2	Methylene chloride	ND		ug/kg dry	4.5	9.0	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
95-47-6	**o-Xylene**	**15**		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
179601-23-1	**p- & m- Xylenes**	**33**		ug/kg dry	4.5	9.0	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
100-42-5	Styrene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
108-88-3	Toluene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.2	4.5	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS
1330-20-7	**Xylenes, Total**	**48**		ug/kg dry	6.7	13	1	EPA 8260C	01/26/2015 14:15	01/27/2015 08:36	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*109 %*	*77-125*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*114 %*	*76-130*
2037-26-5	*Surrogate: Toluene-d8*	*102 %*	*85-120*

Sample Information

Client Sample ID: SB-4 (6-8)

York Sample ID: 15A0781-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:35 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	**Acenaphthene**	**35.8**	J	ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
208-96-8	**Acenaphthylene**	**89.8**		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
98-86-2	Acetophenone	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
62-53-3	Aniline	ND		ug/kg dry	104	208	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
120-12-7	**Anthracene**	**150**		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
1912-24-9	Atrazine	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
100-52-7	Benzaldehyde	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
92-87-5	Benzidine	ND		ug/kg dry	104	208	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
56-55-3	**Benzo(a)anthracene**	**272**		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
50-32-8	**Benzo(a)pyrene**	**178**		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
205-99-2	**Benzo(b)fluoranthene**	**148**		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
191-24-2	**Benzo(g,h,i)perylene**	**76.9**		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
65-85-0	Benzoic acid	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
207-08-9	**Benzo(k)fluoranthene**	**204**		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
105-60-2	Caprolactam	ND		ug/kg dry	52.0	104	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
86-74-8	**Carbazole**	**67.0**		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
218-01-9	**Chrysene**	**270**		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
53-70-3	**Dibenzo(a,h)anthracene**	**39.1**	J	ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
132-64-9	**Dibenzofuran**	**92.8**		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR

Sample Information

Client Sample ID: SB-4 (6-8)

York Sample ID: 15A0781-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:35 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	52.0	104	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	52.0	104	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
206-44-0	**Fluoranthene**	**617**		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
86-73-7	**Fluorene**	**207**		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
193-39-5	**Indeno(1,2,3-cd)pyrene**	**79.4**		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
78-59-1	Isophorone	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
91-57-6	**2-Methylnaphthalene**	**134**		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
91-20-3	**Naphthalene**	**135**		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	52.0	104	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	52.0	104	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	52.0	104	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	52.0	104	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
85-01-8	**Phenanthrene**	**816**		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
108-95-2	Phenol	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
129-00-0	**Pyrene**	**512**		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR

Sample Information

Client Sample ID: SB-4 (6-8) **York Sample ID:** 15A0781-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:35 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	52.0	104	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	52.0	104	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	26.1	52.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:42	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*51.4 %*	*10-99*
4165-62-2	*Surrogate: Phenol-d5*	*56.2 %*	*10-108*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*53.4 %*	*10-119*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*61.6 %*	*10-114*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*67.5 %*	*10-106*
1718-51-0	*Surrogate: Terphenyl-d14*	*67.4 %*	*10-123*

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	3.09	3.09	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:13	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	3.09	3.09	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:13	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	3.09	3.09	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:13	JW
309-00-2	Aldrin	ND		ug/kg dry	3.09	3.09	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:13	JW
319-84-6	alpha-BHC	ND		ug/kg dry	3.09	3.09	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:13	JW
319-85-7	beta-BHC	ND		ug/kg dry	3.09	3.09	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:13	JW
57-74-9	Chlordane, total	ND		ug/kg dry	124	124	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:13	JW
5103-74-2	gamma-Chlordane	ND		ug/kg dry	3.09	3.09	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:13	JW
319-86-8	delta-BHC	ND		ug/kg dry	3.09	3.09	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:13	JW
60-57-1	Dieldrin	ND		ug/kg dry	3.09	3.09	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:13	JW
959-98-8	Endosulfan I	ND		ug/kg dry	3.09	3.09	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:13	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	3.09	3.09	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:13	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	3.09	3.09	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:13	JW
72-20-8	Endrin	ND		ug/kg dry	3.09	3.09	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:13	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	3.09	3.09	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:13	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	3.09	3.09	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:13	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	3.09	3.09	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:13	JW
76-44-8	Heptachlor	ND		ug/kg dry	3.09	3.09	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:13	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	3.09	3.09	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:13	JW
5103-71-9	alpha-Chlordane	ND		ug/kg dry	3.09	3.09	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:13	JW

Sample Information

Client Sample ID: SB-4 (6-8) **York Sample ID:** 15A0781-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:35 pm	01/23/2015

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-43-5	Methoxychlor	ND		ug/kg dry	15.4	15.4	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:13	JW
8001-35-2	Toxaphene	ND		ug/kg dry	156	156	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:13	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*94.8 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*108 %*	*30-140*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0312	0.0312	1	EPA 8082A	01/23/2015 22:02	01/26/2015 12:43	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0312	0.0312	1	EPA 8082A	01/23/2015 22:02	01/26/2015 12:43	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0312	0.0312	1	EPA 8082A	01/23/2015 22:02	01/26/2015 12:43	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0312	0.0312	1	EPA 8082A	01/23/2015 22:02	01/26/2015 12:43	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0312	0.0312	1	EPA 8082A	01/23/2015 22:02	01/26/2015 12:43	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0312	0.0312	1	EPA 8082A	01/23/2015 22:02	01/26/2015 12:43	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0312	0.0312	1	EPA 8082A	01/23/2015 22:02	01/26/2015 12:43	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0312	0.0312	1	EPA 8082A	01/23/2015 22:02	01/26/2015 12:43	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*88.7 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*68.7 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**16600**		mg/kg dry	1.25	1.25	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:35	MW
7440-36-0	Antimony	ND		mg/kg dry	0.624	0.624	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:35	MW
7440-38-2	**Arsenic**	**4.12**		mg/kg dry	1.25	1.25	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:35	MW
7440-39-3	**Barium**	**86.9**		mg/kg dry	1.25	1.25	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:35	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.125	0.125	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:35	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.374	0.374	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:35	MW
7440-70-2	**Calcium**	**3220**		mg/kg dry	0.624	6.24	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:35	MW
7440-47-3	**Chromium**	**26.7**		mg/kg dry	0.624	0.624	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:35	MW
7440-48-4	**Cobalt**	**6.81**		mg/kg dry	0.624	0.624	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:35	MW
7440-50-8	**Copper**	**14.1**		mg/kg dry	0.624	0.624	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:35	MW
7439-89-6	**Iron**	**18300**		mg/kg dry	2.50	2.50	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:35	MW
7439-92-1	**Lead**	**20.8**		mg/kg dry	0.374	0.374	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:35	MW

Sample Information

Client Sample ID: SB-4 (6-8) **York Sample ID:** 15A0781-08

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:35 pm	01/23/2015

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**3730**		mg/kg dry	6.24	6.24	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:35	MW
7439-96-5	**Manganese**	**288**		mg/kg dry	0.624	0.624	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:35	MW
7440-02-0	**Nickel**	**18.4**		mg/kg dry	0.624	0.624	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:35	MW
7440-09-7	**Potassium**	**913**		mg/kg dry	6.24	6.24	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:35	MW
7782-49-2	**Selenium**	**4.15**		mg/kg dry	1.25	1.25	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:35	MW
7440-22-4	Silver	ND		mg/kg dry	0.624	0.624	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:35	MW
7440-23-5	**Sodium**	**85.8**		mg/kg dry	12.5	12.5	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:35	MW
7440-28-0	Thallium	ND		mg/kg dry	1.25	1.25	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:35	MW
7440-62-2	**Vanadium**	**34.5**		mg/kg dry	1.25	1.25	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:35	MW
7440-66-6	**Zinc**	**42.8**		mg/kg dry	1.25	1.25	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:35	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.0926**		mg/kg dry	0.0374	0.0374	1	EPA 7473	01/26/2015 06:44	01/26/2015 11:11	ALD

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**80.1**		%	0.100	0.100	1	SM 2540G	01/26/2015 08:22	01/26/2015 15:30	KK

Sample Information

Client Sample ID: SB-5 (1-3) **York Sample ID:** 15A0781-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:40 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS

Sample Information

Client Sample ID: SB-5 (1-3) **York Sample ID:** 15A0781-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:40 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	84	170	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
110-82-7	Cyclohexane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
78-93-3	2-Butanone	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
591-78-6	2-Hexanone	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
67-64-1	**Acetone**	**45**	Cal-E	ug/kg dry	4.2	8.4	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
107-02-8	Acrolein	ND		ug/kg dry	4.2	8.4	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
71-43-2	Benzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
75-25-2	Bromoform	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
74-83-9	Bromomethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
75-00-3	Chloroethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
67-66-3	Chloroform	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
74-87-3	Chloromethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS

Sample Information

Client Sample ID: **SB-5 (1-3)** **York Sample ID:** **15A0781-09**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:40 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
74-95-3	Dibromomethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
108-87-2	Methylcyclohexane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
79-20-9	Methyl acetate	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
75-09-2	Methylene chloride	ND		ug/kg dry	4.2	8.4	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
95-47-6	o-Xylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	4.2	8.4	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
100-42-5	Styrene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
108-88-3	Toluene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	2.1	4.2	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	6.3	13	1	EPA 8260C	01/26/2015 14:15	01/27/2015 09:11	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*109 %*	*77-125*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*118 %*	*76-130*
2037-26-5	*Surrogate: Toluene-d8*	*105 %*	*85-120*

Sample Information

Client Sample ID: SB-5 (1-3)

York Sample ID: 15A0781-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:40 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	**Acenaphthene**	**190**		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
208-96-8	**Acenaphthylene**	**87.5**	J	ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
98-86-2	Acetophenone	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
62-53-3	Aniline	ND		ug/kg dry	194	388	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
120-12-7	**Anthracene**	**394**		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
1912-24-9	Atrazine	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
100-52-7	Benzaldehyde	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
92-87-5	Benzidine	ND		ug/kg dry	194	388	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
56-55-3	**Benzo(a)anthracene**	**1030**		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
50-32-8	**Benzo(a)pyrene**	**371**		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
205-99-2	**Benzo(b)fluoranthene**	**305**		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
191-24-2	**Benzo(g,h,i)perylene**	**243**		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
65-85-0	Benzoic acid	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
207-08-9	**Benzo(k)fluoranthene**	**443**		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
100-51-6	Benzyl alcohol	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
105-60-2	Caprolactam	ND		ug/kg dry	96.9	194	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
86-74-8	Carbazole	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
106-47-8	4-Chloroaniline	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
95-57-8	2-Chlorophenol	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
218-01-9	**Chrysene**	**1060**		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
53-70-3	**Dibenzo(a,h)anthracene**	**114**		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
132-64-9	**Dibenzofuran**	**123**		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH

Sample Information

Client Sample ID: SB-5 (1-3)

York Sample ID: 15A0781-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:40 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
84-66-2	Diethyl phthalate	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
131-11-3	Dimethyl phthalate	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	96.9	194	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	96.9	194	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
121-14-2	**2,4-Dinitrotoluene**	**63.5**	J	ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 13:25	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
117-81-7	**Bis(2-ethylhexyl)phthalate**	**119**		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
206-44-0	**Fluoranthene**	**1880**		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
86-73-7	**Fluorene**	**355**		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
118-74-1	Hexachlorobenzene	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
67-72-1	Hexachloroethane	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**235**		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
78-59-1	Isophorone	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
95-48-7	2-Methylphenol	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
91-20-3	Naphthalene	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
100-01-6	4-Nitroaniline	ND		ug/kg dry	96.9	194	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
88-74-4	2-Nitroaniline	ND		ug/kg dry	96.9	194	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
99-09-2	3-Nitroaniline	ND		ug/kg dry	96.9	194	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
98-95-3	Nitrobenzene	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
88-75-5	2-Nitrophenol	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
100-02-7	4-Nitrophenol	ND		ug/kg dry	96.9	194	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
87-86-5	Pentachlorophenol	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
85-01-8	**Phenanthrene**	**1790**		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
108-95-2	Phenol	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
129-00-0	**Pyrene**	**2260**		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH

Sample Information

Client Sample ID: SB-5 (1-3) **York Sample ID:** 15A0781-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:40 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	96.9	194	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	96.9	194	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	48.6	96.9	2	EPA 8270D	01/23/2015 23:21	01/26/2015 11:50	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*60.9 %*	*10-99*
4165-62-2	*Surrogate: Phenol-d5*	*65.7 %*	*10-108*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*63.9 %*	*10-119*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*62.0 %*	*10-114*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*55.6 %*	*10-106*
1718-51-0	*Surrogate: Terphenyl-d14*	*76.2 %*	*10-123*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.88	2.88	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:25	JW
72-55-9	**4,4'-DDE**	**4.76**		ug/kg dry	2.88	2.88	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:25	JW
50-29-3	**4,4'-DDT**	**10.9**		ug/kg dry	2.88	2.88	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:25	JW
309-00-2	Aldrin	ND		ug/kg dry	2.88	2.88	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:25	JW
319-84-6	alpha-BHC	ND		ug/kg dry	2.88	2.88	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:25	JW
319-85-7	beta-BHC	ND		ug/kg dry	2.88	2.88	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:25	JW
57-74-9	**Chlordane, total**	**1470**		ug/kg dry	115	115	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:25	JW
5103-74-2	**gamma-Chlordane**	**114**		ug/kg dry	2.88	2.88	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:25	JW
319-86-8	delta-BHC	ND		ug/kg dry	2.88	2.88	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:25	JW
60-57-1	Dieldrin	ND		ug/kg dry	2.88	2.88	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:25	JW
959-98-8	Endosulfan I	ND		ug/kg dry	2.88	2.88	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:25	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	2.88	2.88	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:25	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.88	2.88	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:25	JW
72-20-8	Endrin	ND		ug/kg dry	2.88	2.88	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:25	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.88	2.88	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:25	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	2.88	2.88	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:25	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.88	2.88	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:25	JW
76-44-8	**Heptachlor**	**9.10**		ug/kg dry	2.88	2.88	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:25	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.88	2.88	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:25	JW
5103-71-9	**alpha-Chlordane**	**111**		ug/kg dry	2.88	2.88	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:25	JW

Sample Information

Client Sample ID: SB-5 (1-3) **York Sample ID:** 15A0781-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:40 pm	01/23/2015

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-43-5	Methoxychlor	ND		ug/kg dry	14.4	14.4	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:25	JW
8001-35-2	Toxaphene	ND		ug/kg dry	146	146	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:25	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*84.2 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*98.5 %*	*30-140*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0290	0.0290	1	EPA 8082A	01/23/2015 22:02	01/26/2015 13:08	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0290	0.0290	1	EPA 8082A	01/23/2015 22:02	01/26/2015 13:08	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0290	0.0290	1	EPA 8082A	01/23/2015 22:02	01/26/2015 13:08	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0290	0.0290	1	EPA 8082A	01/23/2015 22:02	01/26/2015 13:08	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0290	0.0290	1	EPA 8082A	01/23/2015 22:02	01/26/2015 13:08	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0290	0.0290	1	EPA 8082A	01/23/2015 22:02	01/26/2015 13:08	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0290	0.0290	1	EPA 8082A	01/23/2015 22:02	01/26/2015 13:08	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0290	0.0290	1	EPA 8082A	01/23/2015 22:02	01/26/2015 13:08	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*80.3 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*61.2 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**9400**		mg/kg dry	1.16	1.16	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:40	MW
7440-36-0	Antimony	ND		mg/kg dry	0.581	0.581	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:40	MW
7440-38-2	**Arsenic**	**6.37**		mg/kg dry	1.16	1.16	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:40	MW
7440-39-3	**Barium**	**142**		mg/kg dry	1.16	1.16	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:40	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.116	0.116	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:40	MW
7440-43-9	**Cadmium**	**0.497**		mg/kg dry	0.349	0.349	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:40	MW
7440-70-2	**Calcium**	**35100**		mg/kg dry	0.581	5.81	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:40	MW
7440-47-3	**Chromium**	**20.3**		mg/kg dry	0.581	0.581	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:40	MW
7440-48-4	**Cobalt**	**8.29**		mg/kg dry	0.581	0.581	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:40	MW
7440-50-8	**Copper**	**112**		mg/kg dry	0.581	0.581	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:40	MW
7439-89-6	**Iron**	**18500**		mg/kg dry	2.32	2.32	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:40	MW
7439-92-1	**Lead**	**256**		mg/kg dry	0.349	0.349	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:40	MW

Sample Information

Client Sample ID: SB-5 (1-3) **York Sample ID:** 15A0781-09

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:40 pm	01/23/2015

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**6940**		mg/kg dry	5.81	5.81	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:40	MW
7439-96-5	**Manganese**	**251**		mg/kg dry	0.581	0.581	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:40	MW
7440-02-0	**Nickel**	**21.3**		mg/kg dry	0.581	0.581	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:40	MW
7440-09-7	**Potassium**	**2590**		mg/kg dry	5.81	5.81	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:40	MW
7782-49-2	**Selenium**	**4.08**		mg/kg dry	1.16	1.16	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:40	MW
7440-22-4	Silver	ND		mg/kg dry	0.581	0.581	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:40	MW
7440-23-5	**Sodium**	**193**		mg/kg dry	11.6	11.6	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:40	MW
7440-28-0	Thallium	ND		mg/kg dry	1.16	1.16	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:40	MW
7440-62-2	**Vanadium**	**30.4**		mg/kg dry	1.16	1.16	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:40	MW
7440-66-6	**Zinc**	**500**		mg/kg dry	1.16	1.16	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:40	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.148**		mg/kg dry	0.0349	0.0349	1	EPA 7473	01/26/2015 06:44	01/26/2015 11:20	ALD

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**86.1**		%	0.100	0.100	1	SM 2540G	01/26/2015 08:22	01/26/2015 15:30	KK

Sample Information

Client Sample ID: SB-5 (14-16) **York Sample ID:** 15A0781-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:45 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS

Sample Information

Client Sample ID: **SB-5 (14-16)** **York Sample ID:** **15A0781-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:45 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	73	150	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
110-82-7	Cyclohexane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
78-93-3	2-Butanone	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
591-78-6	2-Hexanone	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
67-64-1	**Acetone**	**14**	Cal-E	ug/kg dry	3.6	7.3	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
107-02-8	Acrolein	ND		ug/kg dry	3.6	7.3	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
71-43-2	Benzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
75-25-2	Bromoform	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
75-00-3	Chloroethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
67-66-3	Chloroform	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
74-87-3	Chloromethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS

Sample Information

Client Sample ID: **SB-5 (14-16)** **York Sample ID:** **15A0781-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:45 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
74-95-3	Dibromomethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
108-87-2	Methylcyclohexane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
79-20-9	Methyl acetate	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
75-09-2	Methylene chloride	ND		ug/kg dry	3.6	7.3	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
95-47-6	o-Xylene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	3.6	7.3	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
100-42-5	Styrene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
108-88-3	Toluene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	1.8	3.6	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	5.5	11	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:17	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*118 %*	*77-125*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*100 %*	*76-130*
2037-26-5	*Surrogate: Toluene-d8*	*101 %*	*85-120*

Sample Information

Client Sample ID: **SB-5 (14-16)** **York Sample ID:** **15A0781-10**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:45 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
98-86-2	Acetophenone	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
62-53-3	Aniline	ND		ug/kg dry	90.9	182	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
120-12-7	Anthracene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
1912-24-9	Atrazine	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
100-52-7	Benzaldehyde	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
92-87-5	Benzidine	ND		ug/kg dry	90.9	182	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
56-55-3	**Benzo(a)anthracene**	**33.4**	J	ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
50-32-8	Benzo(a)pyrene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
205-99-2	Benzo(b)fluoranthene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
65-85-0	Benzoic acid	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
207-08-9	Benzo(k)fluoranthene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
105-60-2	Caprolactam	ND		ug/kg dry	45.4	90.7	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
86-74-8	Carbazole	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
218-01-9	**Chrysene**	**36.7**	J	ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR

Sample Information

Client Sample ID: SB-5 (14-16) **York Sample ID:** 15A0781-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:45 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	45.4	90.7	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	45.4	90.7	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
206-44-0	**Fluoranthene**	**73.7**		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
86-73-7	Fluorene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
78-59-1	Isophorone	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
91-20-3	Naphthalene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	45.4	90.7	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	45.4	90.7	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	45.4	90.7	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	45.4	90.7	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
85-01-8	**Phenanthrene**	**80.2**		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR

Sample Information

Client Sample ID: SB-5 (14-16) **York Sample ID:** 15A0781-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:45 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-95-2	Phenol	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
129-00-0	**Pyrene**	**63.2**		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	45.4	90.7	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	45.4	90.7	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	22.8	45.4	1	EPA 8270D	01/23/2015 23:21	01/26/2015 10:13	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*44.1 %*	*10-99*
4165-62-2	*Surrogate: Phenol-d5*	*49.8 %*	*10-108*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*47.5 %*	*10-119*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*55.7 %*	*10-114*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*60.4 %*	*10-106*
1718-51-0	*Surrogate: Terphenyl-d14*	*62.2 %*	*10-123*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:39	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:39	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:39	JW
309-00-2	Aldrin	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:39	JW
319-84-6	alpha-BHC	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:39	JW
319-85-7	beta-BHC	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:39	JW
57-74-9	**Chlordane, total**	**389**		ug/kg dry	108	108	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:39	JW
5103-74-2	**gamma-Chlordane**	**29.9**		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:39	JW
319-86-8	delta-BHC	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:39	JW
60-57-1	Dieldrin	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:39	JW
959-98-8	Endosulfan I	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:39	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:39	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:39	JW
72-20-8	Endrin	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:39	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:39	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:39	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:39	JW
76-44-8	Heptachlor	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:39	JW

Sample Information

Client Sample ID: SB-5 (14-16) **York Sample ID:** 15A0781-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:45 pm	01/23/2015

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:39	JW
5103-71-9	**alpha-Chlordane**	**26.0**		ug/kg dry	2.69	2.69	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:39	JW
72-43-5	Methoxychlor	ND		ug/kg dry	13.5	13.5	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:39	JW
8001-35-2	Toxaphene	ND		ug/kg dry	136	136	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:39	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*100 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*117 %*	*30-140*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0272	0.0272	1	EPA 8082A	01/23/2015 22:02	01/26/2015 13:33	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0272	0.0272	1	EPA 8082A	01/23/2015 22:02	01/26/2015 13:33	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0272	0.0272	1	EPA 8082A	01/23/2015 22:02	01/26/2015 13:33	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0272	0.0272	1	EPA 8082A	01/23/2015 22:02	01/26/2015 13:33	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0272	0.0272	1	EPA 8082A	01/23/2015 22:02	01/26/2015 13:33	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0272	0.0272	1	EPA 8082A	01/23/2015 22:02	01/26/2015 13:33	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0272	0.0272	1	EPA 8082A	01/23/2015 22:02	01/26/2015 13:33	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0272	0.0272	1	EPA 8082A	01/23/2015 22:02	01/26/2015 13:33	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*93.6 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*76.6 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**6400**		mg/kg dry	1.09	1.09	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:45	MW
7440-36-0	Antimony	ND		mg/kg dry	0.544	0.544	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:45	MW
7440-38-2	**Arsenic**	**3.58**		mg/kg dry	1.09	1.09	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:45	MW
7440-39-3	**Barium**	**53.6**		mg/kg dry	1.09	1.09	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:45	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.109	0.109	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:45	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.327	0.327	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:45	MW
7440-70-2	**Calcium**	**13300**		mg/kg dry	0.544	5.44	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:45	MW
7440-47-3	**Chromium**	**12.8**		mg/kg dry	0.544	0.544	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:45	MW
7440-48-4	**Cobalt**	**6.88**		mg/kg dry	0.544	0.544	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:45	MW

Sample Information

Client Sample ID: SB-5 (14-16) **York Sample ID:** 15A0781-10

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:45 pm	01/23/2015

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-50-8	**Copper**	**18.1**		mg/kg dry	0.544	0.544	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:45	MW
7439-89-6	**Iron**	**15500**		mg/kg dry	2.18	2.18	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:45	MW
7439-92-1	**Lead**	**12.4**		mg/kg dry	0.327	0.327	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:45	MW
7439-95-4	**Magnesium**	**5840**		mg/kg dry	5.44	5.44	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:45	MW
7439-96-5	**Manganese**	**291**		mg/kg dry	0.544	0.544	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:45	MW
7440-02-0	**Nickel**	**17.8**		mg/kg dry	0.544	0.544	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:45	MW
7440-09-7	**Potassium**	**1810**		mg/kg dry	5.44	5.44	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:45	MW
7782-49-2	**Selenium**	**3.20**		mg/kg dry	1.09	1.09	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:45	MW
7440-22-4	Silver	ND		mg/kg dry	0.544	0.544	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:45	MW
7440-23-5	**Sodium**	**163**		mg/kg dry	10.9	10.9	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:45	MW
7440-28-0	Thallium	ND		mg/kg dry	1.09	1.09	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:45	MW
7440-62-2	**Vanadium**	**18.2**		mg/kg dry	1.09	1.09	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:45	MW
7440-66-6	**Zinc**	**39.8**		mg/kg dry	1.09	1.09	1	EPA 6010C	01/26/2015 09:05	01/26/2015 12:45	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0327	0.0327	1	EPA 7473	01/26/2015 06:44	01/26/2015 11:29	ALD

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**91.8**		%	0.100	0.100	1	SM 2540G	01/26/2015 08:22	01/26/2015 15:30	KK

Sample Information

Client Sample ID: SB-6 (0-2) **York Sample ID:** 15A0781-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:50 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS

Sample Information

Client Sample ID: SB-6 (0-2)

York Sample ID: 15A0781-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:50 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	78	160	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
110-82-7	Cyclohexane	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
78-93-3	2-Butanone	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
591-78-6	2-Hexanone	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
67-64-1	Acetone	ND		ug/kg dry	3.9	7.8	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
107-02-8	Acrolein	ND		ug/kg dry	3.9	7.8	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
71-43-2	Benzene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
75-25-2	Bromoform	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
74-83-9	Bromomethane	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
75-00-3	Chloroethane	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
67-66-3	Chloroform	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS

Sample Information

Client Sample ID: SB-6 (0-2)

York Sample ID: 15A0781-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:50 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
74-87-3	Chloromethane	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
74-95-3	Dibromomethane	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
108-87-2	Methylcyclohexane	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
79-20-9	Methyl acetate	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
75-09-2	Methylene chloride	ND		ug/kg dry	3.9	7.8	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
104-51-8	n-Butylbenzene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
103-65-1	n-Propylbenzene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
95-47-6	o-Xylene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	3.9	7.8	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
100-42-5	Styrene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
108-88-3	Toluene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	1.9	3.9	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	5.8	12	1	EPA 8260C	01/27/2015 08:22	01/27/2015 13:53	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*116 %*	*77-125*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*91.8 %*	*76-130*
2037-26-5	*Surrogate: Toluene-d8*	*99.3 %*	*85-120*

Sample Information

Client Sample ID: SB-6 (0-2)

York Sample ID: 15A0781-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:50 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
98-86-2	Acetophenone	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
62-53-3	Aniline	ND		ug/kg dry	192	384	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
120-12-7	Anthracene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
1912-24-9	Atrazine	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
100-52-7	Benzaldehyde	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
92-87-5	Benzidine	ND		ug/kg dry	192	384	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
56-55-3	**Benzo(a)anthracene**	**197**		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
50-32-8	**Benzo(a)pyrene**	**143**		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
205-99-2	**Benzo(b)fluoranthene**	**119**		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
191-24-2	**Benzo(g,h,i)perylene**	**75.2**	J	ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
65-85-0	Benzoic acid	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
207-08-9	**Benzo(k)fluoranthene**	**161**		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
105-60-2	Caprolactam	ND		ug/kg dry	96.0	192	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
86-74-8	Carbazole	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
218-01-9	**Chrysene**	**219**		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR

Sample Information

Client Sample ID: SB-6 (0-2)

York Sample ID: 15A0781-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:50 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	96.0	192	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	96.0	192	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
206-44-0	**Fluoranthene**	**361**		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
86-73-7	Fluorene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
78-59-1	Isophorone	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
91-57-6	2-Methylnaphthalene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
91-20-3	Naphthalene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	96.0	192	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	96.0	192	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	96.0	192	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	96.0	192	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
85-01-8	**Phenanthrene**	**226**		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR

Sample Information

Client Sample ID: SB-6 (0-2) **York Sample ID:** 15A0781-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:50 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-95-2	Phenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
129-00-0	**Pyrene**	**355**		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	96.0	192	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	96.0	192	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	48.1	96.0	2	EPA 8270D	01/23/2015 23:21	01/26/2015 10:44	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*49.0 %*	*10-99*
4165-62-2	*Surrogate: Phenol-d5*	*55.3 %*	*10-108*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*52.6 %*	*10-119*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*62.8 %*	*10-114*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*65.4 %*	*10-106*
1718-51-0	*Surrogate: Terphenyl-d14*	*68.1 %*	*10-123*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.85	2.85	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:54	JW
72-55-9	**4,4'-DDE**	**6.72**		ug/kg dry	2.85	2.85	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:54	JW
50-29-3	**4,4'-DDT**	**33.8**		ug/kg dry	2.85	2.85	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:54	JW
309-00-2	Aldrin	ND		ug/kg dry	2.85	2.85	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:54	JW
319-84-6	alpha-BHC	ND		ug/kg dry	2.85	2.85	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:54	JW
319-85-7	beta-BHC	ND		ug/kg dry	2.85	2.85	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:54	JW
57-74-9	**Chlordane, total**	**567**		ug/kg dry	114	114	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:54	JW
5103-74-2	**gamma-Chlordane**	**41.8**		ug/kg dry	2.85	2.85	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:54	JW
319-86-8	delta-BHC	ND		ug/kg dry	2.85	2.85	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:54	JW
60-57-1	Dieldrin	ND		ug/kg dry	2.85	2.85	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:54	JW
959-98-8	Endosulfan I	ND		ug/kg dry	2.85	2.85	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:54	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	2.85	2.85	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:54	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.85	2.85	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:54	JW
72-20-8	Endrin	ND		ug/kg dry	2.85	2.85	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:54	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.85	2.85	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:54	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	2.85	2.85	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:54	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.85	2.85	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:54	JW
76-44-8	Heptachlor	ND		ug/kg dry	2.85	2.85	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:54	JW

Sample Information

Client Sample ID: SB-6 (0-2) **York Sample ID:** 15A0781-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:50 pm	01/23/2015

Pesticides, 8081 target list

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1024-57-3	**Heptachlor epoxide**	**8.72**		ug/kg dry	2.85	2.85	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:54	JW
5103-71-9	**alpha-Chlordane**	**42.6**		ug/kg dry	2.85	2.85	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:54	JW
72-43-5	Methoxychlor	ND		ug/kg dry	14.2	14.2	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:54	JW
8001-35-2	Toxaphene	ND		ug/kg dry	144	144	5	EPA 8081B	01/23/2015 22:02	01/26/2015 12:54	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*104 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*111 %*	*30-140*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0288	0.0288	1	EPA 8082A	01/23/2015 22:02	01/26/2015 14:01	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0288	0.0288	1	EPA 8082A	01/23/2015 22:02	01/26/2015 14:01	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0288	0.0288	1	EPA 8082A	01/23/2015 22:02	01/26/2015 14:01	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0288	0.0288	1	EPA 8082A	01/23/2015 22:02	01/26/2015 14:01	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0288	0.0288	1	EPA 8082A	01/23/2015 22:02	01/26/2015 14:01	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0288	0.0288	1	EPA 8082A	01/23/2015 22:02	01/26/2015 14:01	AMC
11096-82-5	**Aroclor 1260**	**0.0881**		mg/kg dry	0.0288	0.0288	1	EPA 8082A	01/23/2015 22:02	01/26/2015 14:01	AMC
1336-36-3	*** Total PCBs**	**0.0881**		mg/kg dry	0.0288	0.0288	1	EPA 8082A	01/23/2015 22:02	01/26/2015 14:01	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*87.7 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*64.7 %*	*30-140*

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**12400**		mg/kg dry	1.15	1.15	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:02	MW
7440-36-0	Antimony	ND		mg/kg dry	0.576	0.576	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:02	MW
7440-38-2	**Arsenic**	**5.57**		mg/kg dry	1.15	1.15	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:02	MW
7440-39-3	**Barium**	**114**		mg/kg dry	1.15	1.15	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:02	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.115	0.115	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:02	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.345	0.345	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:02	MW
7440-70-2	**Calcium**	**5660**		mg/kg dry	0.576	5.76	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:02	MW
7440-47-3	**Chromium**	**22.9**		mg/kg dry	0.576	0.576	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:02	MW
7440-48-4	**Cobalt**	**7.86**		mg/kg dry	0.576	0.576	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:02	MW
7440-50-8	**Copper**	**31.4**		mg/kg dry	0.576	0.576	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:02	MW

Sample Information

Client Sample ID: SB-6 (0-2) **York Sample ID:** 15A0781-11

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 4:50 pm	01/23/2015

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	**Iron**	**19100**		mg/kg dry	2.30	2.30	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:02	MW
7439-92-1	**Lead**	**224**		mg/kg dry	0.345	0.345	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:02	MW
7439-95-4	**Magnesium**	**3580**		mg/kg dry	5.76	5.76	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:02	MW
7439-96-5	**Manganese**	**328**		mg/kg dry	0.576	0.576	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:02	MW
7440-02-0	**Nickel**	**19.3**		mg/kg dry	0.576	0.576	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:02	MW
7440-09-7	**Potassium**	**1420**		mg/kg dry	5.76	5.76	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:02	MW
7782-49-2	**Selenium**	**4.06**		mg/kg dry	1.15	1.15	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:02	MW
7440-22-4	Silver	ND		mg/kg dry	0.576	0.576	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:02	MW
7440-23-5	**Sodium**	**130**		mg/kg dry	11.5	11.5	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:02	MW
7440-28-0	Thallium	ND		mg/kg dry	1.15	1.15	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:02	MW
7440-62-2	**Vanadium**	**29.0**		mg/kg dry	1.15	1.15	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:02	MW
7440-66-6	**Zinc**	**126**		mg/kg dry	1.15	1.15	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:02	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	**Mercury**	**0.176**		mg/kg dry	0.0345	0.0345	1	EPA 7473	01/26/2015 06:44	01/26/2015 11:39	ALD

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**86.9**		%	0.100	0.100	1	SM 2540G	01/26/2015 08:22	01/26/2015 15:30	KK

Sample Information

Client Sample ID: DUP-1 **York Sample ID:** 15A0781-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 12:00 am	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS

Sample Information

Client Sample ID: DUP-1 **York Sample ID:** 15A0781-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 12:00 am	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
75-34-3	1,1-Dichloroethane	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
75-35-4	1,1-Dichloroethylene	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
74-97-5	Bromochloromethane	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
95-63-6	**1,2,4-Trimethylbenzene**	**450**		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
106-93-4	1,2-Dibromoethane	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
107-06-2	1,2-Dichloroethane	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
78-87-5	1,2-Dichloropropane	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
123-91-1	1,4-Dioxane	ND		ug/kg dry	7500	15000	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
110-82-7	Cyclohexane	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
78-93-3	2-Butanone	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
591-78-6	2-Hexanone	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
67-64-1	Acetone	ND		ug/kg dry	370	750	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
107-02-8	Acrolein	ND		ug/kg dry	370	750	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
107-13-1	Acrylonitrile	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
71-43-2	Benzene	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
75-27-4	Bromodichloromethane	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
75-25-2	Bromoform	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
74-83-9	Bromomethane	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
75-15-0	Carbon disulfide	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
56-23-5	Carbon tetrachloride	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
108-90-7	Chlorobenzene	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
75-00-3	Chloroethane	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
67-66-3	Chloroform	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
74-87-3	Chloromethane	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS

Sample Information

Client Sample ID: **DUP-1**

York Sample ID: **15A0781-12**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 12:00 am	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5035A

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
124-48-1	Dibromochloromethane	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
74-95-3	Dibromomethane	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
75-71-8	Dichlorodifluoromethane	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
100-41-4	Ethyl Benzene	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
108-87-2	**Methylcyclohexane**	**1300**		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
98-82-8	Isopropylbenzene	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
79-20-9	Methyl acetate	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
75-09-2	**Methylene chloride**	**420**	J	ug/kg dry	370	750	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
104-51-8	**n-Butylbenzene**	**510**		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
103-65-1	**n-Propylbenzene**	**470**		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
95-47-6	o-Xylene	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
179601-23-1	p- & m- Xylenes	ND		ug/kg dry	370	750	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
99-87-6	p-Isopropyltoluene	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
135-98-8	sec-Butylbenzene	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
100-42-5	Styrene	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
98-06-6	tert-Butylbenzene	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
127-18-4	Tetrachloroethylene	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
108-88-3	Toluene	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
79-01-6	Trichloroethylene	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
75-69-4	Trichlorofluoromethane	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
75-01-4	Vinyl Chloride	ND		ug/kg dry	190	370	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS
1330-20-7	Xylenes, Total	ND		ug/kg dry	560	1100	100	EPA 8260C	01/27/2015 08:22	01/27/2015 14:28	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*102 %*	*77-125*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*92.6 %*	*76-130*
2037-26-5	*Surrogate: Toluene-d8*	*99.1 %*	*85-120*

Sample Information

Client Sample ID: DUP-1 **York Sample ID:** 15A0781-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 12:00 am	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
208-96-8	Acenaphthylene	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
98-86-2	Acetophenone	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
62-53-3	Aniline	ND		ug/kg dry	91.2	182	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
120-12-7	Anthracene	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
1912-24-9	Atrazine	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
100-52-7	Benzaldehyde	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
92-87-5	Benzidine	ND		ug/kg dry	91.2	182	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
56-55-3	**Benzo(a)anthracene**	**37.9**	J	ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
50-32-8	**Benzo(a)pyrene**	**31.0**	J	ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
205-99-2	**Benzo(b)fluoranthene**	**33.5**	J	ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
191-24-2	Benzo(g,h,i)perylene	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
65-85-0	Benzoic acid	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
207-08-9	**Benzo(k)fluoranthene**	**33.1**	J	ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
100-51-6	Benzyl alcohol	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
85-68-7	Benzyl butyl phthalate	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
92-52-4	1,1'-Biphenyl	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
101-55-3	4-Bromophenyl phenyl ether	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
105-60-2	Caprolactam	ND		ug/kg dry	45.6	91.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
86-74-8	Carbazole	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
59-50-7	4-Chloro-3-methylphenol	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
106-47-8	4-Chloroaniline	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
111-44-4	Bis(2-chloroethyl)ether	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
91-58-7	2-Chloronaphthalene	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
95-57-8	2-Chlorophenol	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
218-01-9	**Chrysene**	**48.4**		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
53-70-3	Dibenzo(a,h)anthracene	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
132-64-9	Dibenzofuran	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
84-74-2	Di-n-butyl phthalate	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
95-50-1	1,2-Dichlorobenzene	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
541-73-1	1,3-Dichlorobenzene	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
106-46-7	1,4-Dichlorobenzene	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR

Sample Information

Client Sample ID: DUP-1 **York Sample ID:** 15A0781-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 12:00 am	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-94-1	3,3'-Dichlorobenzidine	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
120-83-2	2,4-Dichlorophenol	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
84-66-2	Diethyl phthalate	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
105-67-9	2,4-Dimethylphenol	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
131-11-3	Dimethyl phthalate	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/kg dry	45.6	91.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
51-28-5	2,4-Dinitrophenol	ND		ug/kg dry	45.6	91.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
121-14-2	2,4-Dinitrotoluene	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
606-20-2	2,6-Dinitrotoluene	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
117-84-0	Di-n-octyl phthalate	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
206-44-0	**Fluoranthene**	**91.8**		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
86-73-7	Fluorene	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
118-74-1	Hexachlorobenzene	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
87-68-3	Hexachlorobutadiene	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
77-47-4	Hexachlorocyclopentadiene	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
67-72-1	Hexachloroethane	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
78-59-1	Isophorone	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
91-57-6	**2-Methylnaphthalene**	**847**		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
95-48-7	2-Methylphenol	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
65794-96-9	3- & 4-Methylphenols	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
91-20-3	**Naphthalene**	**184**		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
100-01-6	4-Nitroaniline	ND		ug/kg dry	45.6	91.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
88-74-4	2-Nitroaniline	ND		ug/kg dry	45.6	91.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
99-09-2	3-Nitroaniline	ND		ug/kg dry	45.6	91.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
98-95-3	Nitrobenzene	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
88-75-5	2-Nitrophenol	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
100-02-7	4-Nitrophenol	ND		ug/kg dry	45.6	91.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
621-64-7	N-nitroso-di-n-propylamine	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
62-75-9	N-Nitrosodimethylamine	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
86-30-6	N-Nitrosodiphenylamine	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
87-86-5	Pentachlorophenol	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
85-01-8	**Phenanthrene**	**116**		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
108-95-2	Phenol	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR

Sample Information

Client Sample ID: DUP-1 **York Sample ID:** 15A0781-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 12:00 am	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3550C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
129-00-0	**Pyrene**	**91.4**		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/kg dry	45.6	91.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/kg dry	45.6	91.0	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
120-82-1	1,2,4-Trichlorobenzene	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
88-06-2	2,4,6-Trichlorophenol	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR
95-95-4	2,4,5-Trichlorophenol	ND		ug/kg dry	22.8	45.6	1	EPA 8270D	01/23/2015 23:21	01/26/2015 09:11	SR

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*61.5 %*	*10-99*
4165-62-2	*Surrogate: Phenol-d5*	*65.0 %*	*10-108*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*62.1 %*	*10-119*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*67.9 %*	*10-114*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*73.4 %*	*10-106*
1718-51-0	*Surrogate: Terphenyl-d14*	*72.0 %*	*10-123*

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
72-54-8	4,4'-DDD	ND		ug/kg dry	2.70	2.70	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:09	JW
72-55-9	4,4'-DDE	ND		ug/kg dry	2.70	2.70	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:09	JW
50-29-3	4,4'-DDT	ND		ug/kg dry	2.70	2.70	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:09	JW
309-00-2	Aldrin	ND		ug/kg dry	2.70	2.70	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:09	JW
319-84-6	alpha-BHC	ND		ug/kg dry	2.70	2.70	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:09	JW
319-85-7	beta-BHC	ND		ug/kg dry	2.70	2.70	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:09	JW
57-74-9	Chlordane, total	ND		ug/kg dry	108	108	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:09	JW
5103-74-2	gamma-Chlordane	ND		ug/kg dry	2.70	2.70	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:09	JW
319-86-8	delta-BHC	ND		ug/kg dry	2.70	2.70	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:09	JW
60-57-1	Dieldrin	ND		ug/kg dry	2.70	2.70	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:09	JW
959-98-8	Endosulfan I	ND		ug/kg dry	2.70	2.70	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:09	JW
33213-65-9	Endosulfan II	ND		ug/kg dry	2.70	2.70	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:09	JW
1031-07-8	Endosulfan sulfate	ND		ug/kg dry	2.70	2.70	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:09	JW
72-20-8	Endrin	ND		ug/kg dry	2.70	2.70	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:09	JW
7421-93-4	Endrin aldehyde	ND		ug/kg dry	2.70	2.70	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:09	JW
53494-70-5	Endrin ketone	ND		ug/kg dry	2.70	2.70	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:09	JW
58-89-9	gamma-BHC (Lindane)	ND		ug/kg dry	2.70	2.70	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:09	JW
76-44-8	Heptachlor	ND		ug/kg dry	2.70	2.70	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:09	JW
1024-57-3	Heptachlor epoxide	ND		ug/kg dry	2.70	2.70	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:09	JW

Sample Information

Client Sample ID: DUP-1 **York Sample ID:** 15A0781-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 12:00 am	01/23/2015

Pesticides, 8081 target list

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
5103-71-9	alpha-Chlordane	ND		ug/kg dry	2.70	2.70	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:09	JW
72-43-5	Methoxychlor	ND		ug/kg dry	13.5	13.5	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:09	JW
8001-35-2	Toxaphene	ND		ug/kg dry	137	137	5	EPA 8081B	01/23/2015 22:02	01/26/2015 13:09	JW

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*107 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*127 %*	*30-140*

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3545A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		mg/kg dry	0.0273	0.0273	1	EPA 8082A	01/23/2015 22:02	01/26/2015 14:30	AMC
11104-28-2	Aroclor 1221	ND		mg/kg dry	0.0273	0.0273	1	EPA 8082A	01/23/2015 22:02	01/26/2015 14:30	AMC
11141-16-5	Aroclor 1232	ND		mg/kg dry	0.0273	0.0273	1	EPA 8082A	01/23/2015 22:02	01/26/2015 14:30	AMC
53469-21-9	Aroclor 1242	ND		mg/kg dry	0.0273	0.0273	1	EPA 8082A	01/23/2015 22:02	01/26/2015 14:30	AMC
12672-29-6	Aroclor 1248	ND		mg/kg dry	0.0273	0.0273	1	EPA 8082A	01/23/2015 22:02	01/26/2015 14:30	AMC
11097-69-1	Aroclor 1254	ND		mg/kg dry	0.0273	0.0273	1	EPA 8082A	01/23/2015 22:02	01/26/2015 14:30	AMC
11096-82-5	Aroclor 1260	ND		mg/kg dry	0.0273	0.0273	1	EPA 8082A	01/23/2015 22:02	01/26/2015 14:30	AMC
1336-36-3	* Total PCBs	ND		mg/kg dry	0.0273	0.0273	1	EPA 8082A	01/23/2015 22:02	01/26/2015 14:30	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*92.1 %*	*30-140*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*83.6 %*	*30-140*

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**5950**		mg/kg dry	1.09	1.09	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:07	MW
7440-36-0	Antimony	ND		mg/kg dry	0.546	0.546	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:07	MW
7440-38-2	**Arsenic**	**2.47**		mg/kg dry	1.09	1.09	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:07	MW
7440-39-3	**Barium**	**43.7**		mg/kg dry	1.09	1.09	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:07	MW
7440-41-7	Beryllium	ND		mg/kg dry	0.109	0.109	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:07	MW
7440-43-9	Cadmium	ND		mg/kg dry	0.328	0.328	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:07	MW
7440-70-2	**Calcium**	**2180**		mg/kg dry	0.546	5.46	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:07	MW
7440-47-3	**Chromium**	**10.8**		mg/kg dry	0.546	0.546	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:07	MW
7440-48-4	**Cobalt**	**4.74**		mg/kg dry	0.546	0.546	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:07	MW
7440-50-8	**Copper**	**15.4**		mg/kg dry	0.546	0.546	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:07	MW

Sample Information

Client Sample ID: DUP-1 **York Sample ID:** 15A0781-12

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Soil	January 23, 2015 12:00 am	01/23/2015

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3050B

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-89-6	**Iron**	**12000**		mg/kg dry	2.18	2.18	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:07	MW
7439-92-1	**Lead**	**6.75**		mg/kg dry	0.328	0.328	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:07	MW
7439-95-4	**Magnesium**	**2490**		mg/kg dry	5.46	5.46	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:07	MW
7439-96-5	**Manganese**	**153**		mg/kg dry	0.546	0.546	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:07	MW
7440-02-0	**Nickel**	**14.6**		mg/kg dry	0.546	0.546	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:07	MW
7440-09-7	**Potassium**	**1660**		mg/kg dry	5.46	5.46	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:07	MW
7782-49-2	**Selenium**	**2.76**		mg/kg dry	1.09	1.09	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:07	MW
7440-22-4	Silver	ND		mg/kg dry	0.546	0.546	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:07	MW
7440-23-5	**Sodium**	**182**		mg/kg dry	10.9	10.9	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:07	MW
7440-28-0	Thallium	ND		mg/kg dry	1.09	1.09	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:07	MW
7440-62-2	**Vanadium**	**14.8**		mg/kg dry	1.09	1.09	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:07	MW
7440-66-6	**Zinc**	**22.4**		mg/kg dry	1.09	1.09	1	EPA 6010C	01/26/2015 09:05	01/26/2015 13:07	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 soil

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/kg dry	0.0328	0.0328	1	EPA 7473	01/26/2015 06:44	01/26/2015 11:48	ALD

Total Solids

Log-in Notes:

Sample Notes:

Sample Prepared by Method: % Solids Prep

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
solids	*** % Solids**	**91.5**		%	0.100	0.100	1	SM 2540G	01/26/2015 08:22	01/26/2015 15:30	KK

Sample Information

Client Sample ID: Trip Blank **York Sample ID:** 15A0781-13

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 12:00 am	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS

Sample Information

Client Sample ID: **Trip Blank**

York Sample ID: **15A0781-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 12:00 am	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS

Sample Information

Client Sample ID: **Trip Blank** **York Sample ID:** **15A0781-13**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 12:00 am	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
100-41-4	Ethyl Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
95-47-6	o-Xylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
179601-23-1	p- & m- Xylenes	ND		ug/L	0.50	1.0	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS
1330-20-7	* Xylenes, Total	ND		ug/L	0.60	1.5	1	EPA 8260C	01/28/2015 08:44	01/28/2015 13:57	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*106 %*	*69-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*103 %*	*79-122*
2037-26-5	*Surrogate: Toluene-d8*	*91.4 %*	*81-117*

Sample Information

Client Sample ID: **SB-1 (MW)** **York Sample ID:** **15A0781-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 4:35 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
108-67-8	1,3,5-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
67-64-1	**Acetone**	**11**	B	ug/L	1.0	2.0	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
71-43-2	Benzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS

Sample Information

Client Sample ID: **SB-1 (MW)** **York Sample ID:** **15A0781-14**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 4:35 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
100-41-4	**Ethyl Benzene**	**1.2**		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
1634-04-4	**Methyl tert-butyl ether (MTBE)**	**1.5**		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
95-47-6	**o-Xylene**	**2.5**		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
179601-23-1	**p- & m- Xylenes**	**5.0**		ug/L	0.50	1.0	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
108-88-3	Toluene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS
1330-20-7	*** Xylenes, Total**	**7.5**		ug/L	0.60	1.5	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:26	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*100 %*	*69-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*102 %*	*79-122*
2037-26-5	*Surrogate: Toluene-d8*	*92.6 %*	*81-117*

Sample Information

Client Sample ID: SB-1 (MW)

York Sample ID: 15A0781-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 4:35 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:04	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:04	KH
98-86-2	Acetophenone	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
62-53-3	Aniline	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
120-12-7	Anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:04	KH
1912-24-9	Atrazine	ND		ug/L	0.541	0.541	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
100-52-7	Benzaldehyde	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
92-87-5	Benzidine	ND		ug/L	10.8	21.6	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:04	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:04	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:04	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:04	KH
65-85-0	Benzoic acid	ND		ug/L	27.0	54.1	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:04	KH
100-51-6	Benzyl alcohol	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
92-52-4	1,1'-Biphenyl	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
105-60-2	Caprolactam	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
86-74-8	Carbazole	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
106-47-8	4-Chloroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
95-57-8	2-Chlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
218-01-9	Chrysene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:04	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:04	KH
132-64-9	Dibenzofuran	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH

Sample Information

Client Sample ID: SB-1 (MW)

York Sample ID: 15A0781-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 4:35 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
117-81-7	Bis(2-ethylhexyl)phthalate	ND		ug/L	0.541	0.541	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
206-44-0	Fluoranthene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:04	KH
86-73-7	Fluorene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:04	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0216	0.0216	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:04	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.541	0.541	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:04	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:04	KH
67-72-1	Hexachloroethane	ND		ug/L	0.541	0.541	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:04	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:04	KH
78-59-1	Isophorone	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
95-48-7	2-Methylphenol	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
91-20-3	Naphthalene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:04	KH
99-09-2	3-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
100-01-6	4-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
98-95-3	Nitrobenzene	ND		ug/L	0.270	0.270	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:04	KH
100-02-7	4-Nitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.541	0.541	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:04	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.270	0.270	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:04	KH
85-01-8	Phenanthrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH

Sample Information

Client Sample ID: SB-1 (MW)

York Sample ID: 15A0781-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 4:35 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
108-95-2	Phenol	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:04	KH
129-00-0	Pyrene	ND		ug/L	0.0541	0.0541	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.70	5.41	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:32	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*31.2 %*	*10-47*
4165-62-2	*Surrogate: Phenol-d5*	*27.6 %*	*10-37*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*60.2 %*	*10-109*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*60.9 %*	*10-97*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*51.9 %*	*10-112*
1718-51-0	*Surrogate: Terphenyl-d14*	*59.4 %*	*10-137*

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.118	0.118	1	EPA 8082A	01/26/2015 07:55	01/26/2015 16:57	AMC
11104-28-2	Aroclor 1221	ND		ug/L	0.118	0.118	1	EPA 8082A	01/26/2015 07:55	01/26/2015 16:57	AMC
11141-16-5	Aroclor 1232	ND		ug/L	0.118	0.118	1	EPA 8082A	01/26/2015 07:55	01/26/2015 16:57	AMC
53469-21-9	Aroclor 1242	ND		ug/L	0.118	0.118	1	EPA 8082A	01/26/2015 07:55	01/26/2015 16:57	AMC
12672-29-6	Aroclor 1248	ND		ug/L	0.118	0.118	1	EPA 8082A	01/26/2015 07:55	01/26/2015 16:57	AMC
11097-69-1	Aroclor 1254	ND		ug/L	0.118	0.118	1	EPA 8082A	01/26/2015 07:55	01/26/2015 16:57	AMC
11096-82-5	Aroclor 1260	ND		ug/L	0.118	0.118	1	EPA 8082A	01/26/2015 07:55	01/26/2015 16:57	AMC
1336-36-3	* Total PCBs	ND		ug/L	0.118	0.118	1	EPA 8082A	01/26/2015 07:55	01/26/2015 16:57	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*94.1 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*43.8 %*	*30-120*

Sample Information

Client Sample ID: SB-1 (MW) **York Sample ID:** 15A0781-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 4:35 pm	01/23/2015

Metals, Dissolved - Target Analyte (TAL)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**1.90**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:27	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:27	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:27	MW
7440-39-3	**Barium**	**0.186**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:27	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:27	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:27	MW
7440-70-2	**Calcium**	**89.2**		mg/L	0.050	0.050	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:27	MW
7440-47-3	**Chromium**	**0.005**		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:27	MW
7440-48-4	**Cobalt**	**0.008**		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:27	MW
7440-50-8	**Copper**	**0.010**		mg/L	0.003	0.003	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:27	MW
7439-89-6	**Iron**	**2.29**		mg/L	0.020	0.020	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:27	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:27	MW
7439-95-4	**Magnesium**	**47.4**		mg/L	0.050	0.050	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:27	MW
7439-96-5	**Manganese**	**2.69**		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:27	MW
7440-02-0	**Nickel**	**0.018**		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:27	MW
7440-09-7	**Potassium**	**7.88**		mg/L	0.050	0.050	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:27	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:27	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:27	MW
7440-23-5	**Sodium**	**32.3**		mg/L	0.100	0.100	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:27	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:27	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:27	MW
7440-66-6	**Zinc**	**0.076**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:27	MW

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**12.3**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:33	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:33	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:33	MW
7440-39-3	**Barium**	**0.307**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:33	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:33	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:33	MW
7440-70-2	**Calcium**	**107**		mg/L	0.050	0.050	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:33	MW
7440-47-3	**Chromium**	**0.034**		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:33	MW
7440-48-4	**Cobalt**	**0.020**		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:33	MW
7440-50-8	**Copper**	**0.025**		mg/L	0.003	0.003	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:33	MW
7439-89-6	**Iron**	**20.2**		mg/L	0.020	0.020	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:33	MW

Sample Information

Client Sample ID: SB-1 (MW) **York Sample ID:** 15A0781-14

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 4:35 pm	01/23/2015

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-92-1	**Lead**	**0.012**		mg/L	0.003	0.003	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:33	MW
7439-95-4	**Magnesium**	**60.7**		mg/L	0.050	0.050	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:33	MW
7439-96-5	**Manganese**	**3.59**		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:33	MW
7440-02-0	**Nickel**	**0.047**		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:33	MW
7440-09-7	**Potassium**	**9.92**		mg/L	0.050	0.050	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:33	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:33	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:33	MW
7440-23-5	**Sodium**	**33.1**		mg/L	0.100	0.100	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:33	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:33	MW
7440-62-2	**Vanadium**	**0.034**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:33	MW
7440-66-6	**Zinc**	**0.171**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:33	MW

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	01/26/2015 06:46	01/26/2015 12:54	ALD

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	01/26/2015 06:46	01/26/2015 12:54	ALD

Sample Information

Client Sample ID: SB-2 (MW) **York Sample ID:** 15A0781-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 3:50 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS

Sample Information

Client Sample ID: **SB-2 (MW)** **York Sample ID:** **15A0781-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 3:50 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
95-63-6	**1,2,4-Trimethylbenzene**	**1.9**		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
108-67-8	**1,3,5-Trimethylbenzene**	**0.41**	J	ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
78-93-3	**2-Butanone**	**3.2**		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
108-10-1	**4-Methyl-2-pentanone**	**4.0**		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
67-64-1	**Acetone**	**9.0**	B	ug/L	1.0	2.0	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
71-43-2	**Benzene**	**0.97**		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
74-87-3	**Chloromethane**	**3.5**		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS

Sample Information

Client Sample ID: **SB-2 (MW)** **York Sample ID:** **15A0781-15**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 3:50 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
100-41-4	**Ethyl Benzene**	**1.0**		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
103-65-1	n-Propylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
95-47-6	**o-Xylene**	**2.3**		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
179601-23-1	**p- & m- Xylenes**	**4.1**		ug/L	0.50	1.0	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
108-88-3	**Toluene**	**2.5**		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS
1330-20-7	*** Xylenes, Total**	**6.3**		ug/L	0.60	1.5	1	EPA 8260C	01/28/2015 08:44	01/28/2015 14:55	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*99.9 %*	*69-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*101 %*	*79-122*
2037-26-5	*Surrogate: Toluene-d8*	*95.0 %*	*81-117*

Sample Information

Client Sample ID: SB-2 (MW)

York Sample ID: 15A0781-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 3:50 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0690	0.0690	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:35	KH
208-96-8	Acenaphthylene	ND		ug/L	0.0690	0.0690	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:35	KH
98-86-2	Acetophenone	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
62-53-3	Aniline	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
120-12-7	Anthracene	ND		ug/L	0.0690	0.0690	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:35	KH
1912-24-9	Atrazine	ND		ug/L	0.690	0.690	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
100-52-7	Benzaldehyde	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
92-87-5	Benzidine	ND		ug/L	13.8	27.6	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0690	0.0690	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:35	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0690	0.0690	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:35	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0690	0.0690	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:35	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0690	0.0690	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:35	KH
65-85-0	Benzoic acid	ND		ug/L	34.5	69.0	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0690	0.0690	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:35	KH
100-51-6	Benzyl alcohol	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
92-52-4	1,1'-Biphenyl	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
105-60-2	Caprolactam	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
86-74-8	Carbazole	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
106-47-8	4-Chloroaniline	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
95-57-8	2-Chlorophenol	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
218-01-9	Chrysene	ND		ug/L	0.0690	0.0690	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:35	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0690	0.0690	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:35	KH
132-64-9	Dibenzofuran	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH

Sample Information

Client Sample ID: SB-2 (MW)

York Sample ID: 15A0781-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 3:50 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
84-66-2	Diethyl phthalate	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
131-11-3	Dimethyl phthalate	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
117-81-7	**Bis(2-ethylhexyl)phthalate**	**1.50**		ug/L	0.690	0.690	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:35	KH
206-44-0	Fluoranthene	ND		ug/L	0.0690	0.0690	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:35	KH
86-73-7	**Fluorene**	**0.0966**		ug/L	0.0690	0.0690	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:35	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0276	0.0276	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:35	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.690	0.690	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
67-72-1	Hexachloroethane	ND		ug/L	0.690	0.690	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:35	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0690	0.0690	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:35	KH
78-59-1	Isophorone	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
91-57-6	2-Methylnaphthalene	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
95-48-7	2-Methylphenol	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
91-20-3	**Naphthalene**	**0.828**		ug/L	0.0690	0.0690	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:35	KH
99-09-2	3-Nitroaniline	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
100-01-6	4-Nitroaniline	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
88-74-4	2-Nitroaniline	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
98-95-3	Nitrobenzene	ND		ug/L	0.345	0.345	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:35	KH
100-02-7	4-Nitrophenol	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
88-75-5	2-Nitrophenol	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.690	0.690	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:35	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.345	0.345	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:35	KH
85-01-8	**Phenanthrene**	**0.166**		ug/L	0.0690	0.0690	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:35	KH
108-95-2	Phenol	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH

Sample Information

Client Sample ID: SB-2 (MW) **York Sample ID:** 15A0781-15

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 3:50 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
129-00-0	Pyrene	ND		ug/L	0.0690	0.0690	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:35	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	3.45	6.90	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:39	KH

	Surrogate Recoveries	Result		Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*62.8 %*	S-08	*10-47*
4165-62-2	*Surrogate: Phenol-d5*	*45.2 %*	S-08	*10-37*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*79.6 %*		*10-109*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*71.4 %*		*10-97*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*58.5 %*		*10-112*
1718-51-0	*Surrogate: Terphenyl-d14*	*71.6 %*		*10-137*

Sample Information

Client Sample ID: SB-3 (MW) **York Sample ID:** 15A0781-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 2:25 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
74-97-5	Bromochloromethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS

Sample Information

Client Sample ID: **SB-3 (MW)** **York Sample ID:** **15A0781-16**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 2:25 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
108-67-8	**1,3,5-Trimethylbenzene**	**61**		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
123-91-1	1,4-Dioxane	ND		ug/L	400	800	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
110-82-7	**Cyclohexane**	**180**		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
78-93-3	2-Butanone	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
591-78-6	2-Hexanone	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
67-64-1	Acetone	ND		ug/L	10	20	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
107-02-8	Acrolein	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
107-13-1	Acrylonitrile	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
71-43-2	**Benzene**	**65**		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
75-27-4	Bromodichloromethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
75-25-2	Bromoform	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
74-83-9	Bromomethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
75-15-0	Carbon disulfide	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
56-23-5	Carbon tetrachloride	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
108-90-7	Chlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
75-00-3	Chloroethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
67-66-3	Chloroform	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
74-87-3	Chloromethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
124-48-1	Dibromochloromethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
74-95-3	Dibromomethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
100-41-4	**Ethyl Benzene**	**120**		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
108-87-2	**Methylcyclohexane**	**110**		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
98-82-8	**Isopropylbenzene**	**29**		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
79-20-9	Methyl acetate	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS

Sample Information

Client Sample ID: **SB-3 (MW)** **York Sample ID:** **15A0781-16**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 2:25 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
75-09-2	Methylene chloride	ND		ug/L	10	20	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
104-51-8	**n-Butylbenzene**	**23**	B	ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
103-65-1	**n-Propylbenzene**	**97**		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
95-47-6	**o-Xylene**	**5.0**		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
179601-23-1	**p- & m- Xylenes**	**42**		ug/L	5.0	10	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
99-87-6	**p-Isopropyltoluene**	**3.9**	J	ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
135-98-8	**sec-Butylbenzene**	**8.4**		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
100-42-5	Styrene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	5.0	10	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
98-06-6	tert-Butylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
127-18-4	Tetrachloroethylene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
108-88-3	**Toluene**	**12**		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
79-01-6	Trichloroethylene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
75-01-4	Vinyl Chloride	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS
1330-20-7	*** Xylenes, Total**	**47**		ug/L	6.0	15	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:16	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*73.8 %*	*69-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*105 %*	*79-122*
2037-26-5	*Surrogate: Toluene-d8*	*96.0 %*	*81-117*

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	Acenaphthene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:35	KH
208-96-8	**Acenaphthylene**	**0.0700**		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:35	KH
98-86-2	Acetophenone	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
62-53-3	Aniline	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
120-12-7	**Anthracene**	**0.110**		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:35	KH
1912-24-9	Atrazine	ND		ug/L	0.500	0.500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:35	KH
100-52-7	Benzaldehyde	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
92-87-5	Benzidine	ND		ug/L	10.0	20.0	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH

Sample Information

Client Sample ID: SB-3 (MW)

York Sample ID: 15A0781-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 2:25 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:35	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:35	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:35	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:35	KH
65-85-0	Benzoic acid	ND		ug/L	25.0	50.0	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:35	KH
100-51-6	Benzyl alcohol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
92-52-4	1,1'-Biphenyl	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
105-60-2	Caprolactam	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
86-74-8	Carbazole	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
106-47-8	4-Chloroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
95-57-8	2-Chlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
218-01-9	Chrysene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:35	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:35	KH
132-64-9	Dibenzofuran	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH

Sample Information

Client Sample ID: SB-3 (MW)

York Sample ID: 15A0781-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 2:25 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
117-81-7	**Bis(2-ethylhexyl)phthalate**	**1.24**		ug/L	0.500	0.500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:35	KH
206-44-0	Fluoranthene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:35	KH
86-73-7	Fluorene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:35	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0200	0.0200	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:35	KH
87-68-3	Hexachlorobutadiene	ND		ug/L	0.500	0.500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
67-72-1	Hexachloroethane	ND		ug/L	0.500	0.500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:35	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:35	KH
78-59-1	Isophorone	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
91-57-6	**2-Methylnaphthalene**	**33.2**		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
95-48-7	2-Methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
91-20-3	**Naphthalene**	**27.4**		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
99-09-2	3-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
100-01-6	4-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
98-95-3	Nitrobenzene	ND		ug/L	0.250	0.250	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:35	KH
100-02-7	4-Nitrophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.500	0.500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:35	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.250	0.250	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:35	KH
85-01-8	**Phenanthrene**	**0.150**		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:35	KH
108-95-2	Phenol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
129-00-0	Pyrene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 12:35	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 14:08	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*32.6 %*	*10-47*
4165-62-2	*Surrogate: Phenol-d5*	*21.5 %*	*10-37*

Sample Information

Client Sample ID: SB-3 (MW) **York Sample ID:** 15A0781-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 2:25 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
4165-60-0	*Surrogate: Nitrobenzene-d5*	*53.1 %*			*10-109*						
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*51.8 %*			*10-97*						
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*45.0 %*			*10-112*						
1718-51-0	*Surrogate: Terphenyl-d14*	*52.8 %*			*10-137*						

Polychlorinated Biphenyls (PCB)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	0.0500	1	EPA 8082A	01/26/2015 07:55	01/26/2015 17:26	AMC
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	0.0500	1	EPA 8082A	01/26/2015 07:55	01/26/2015 17:26	AMC
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	0.0500	1	EPA 8082A	01/26/2015 07:55	01/26/2015 17:26	AMC
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	0.0500	1	EPA 8082A	01/26/2015 07:55	01/26/2015 17:26	AMC
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	0.0500	1	EPA 8082A	01/26/2015 07:55	01/26/2015 17:26	AMC
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	0.0500	1	EPA 8082A	01/26/2015 07:55	01/26/2015 17:26	AMC
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	0.0500	1	EPA 8082A	01/26/2015 07:55	01/26/2015 17:26	AMC
1336-36-3	* Total PCBs	ND		ug/L	0.0500	0.0500	1	EPA 8082A	01/26/2015 07:55	01/26/2015 17:26	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*70.4 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*54.2 %*	*30-120*

Metals, Dissolved - Target Analyte (TAL)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.262**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:57	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:57	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:57	MW
7440-39-3	**Barium**	**0.129**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:57	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:57	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:57	MW
7440-70-2	**Calcium**	**117**		mg/L	0.050	0.050	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:57	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:57	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:57	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:57	MW
7439-89-6	**Iron**	**1.84**		mg/L	0.020	0.020	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:57	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:57	MW

Sample Information

Client Sample ID: **SB-3 (MW)** **York Sample ID:** **15A0781-16**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 2:25 pm	01/23/2015

Metals, Dissolved - Target Analyte (TAL)

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-95-4	**Magnesium**	**57.5**		mg/L	0.050	0.050	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:57	MW
7439-96-5	**Manganese**	**2.49**		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:57	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:57	MW
7440-09-7	**Potassium**	**4.15**		mg/L	0.050	0.050	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:57	MW
7782-49-2	**Selenium**	**0.010**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:57	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:57	MW
7440-23-5	**Sodium**	**61.5**		mg/L	0.100	0.100	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:57	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:57	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:57	MW
7440-66-6	Zinc	ND		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 09:09	01/26/2015 19:57	MW

Metals, Target Analyte

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**1.14**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:37	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:37	MW
7440-38-2	**Arsenic**	**0.005**		mg/L	0.004	0.004	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:37	MW
7440-39-3	**Barium**	**0.191**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:37	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:37	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:37	MW
7440-70-2	**Calcium**	**118**		mg/L	0.050	0.050	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:37	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:37	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:37	MW
7440-50-8	**Copper**	**0.005**		mg/L	0.003	0.003	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:37	MW
7439-89-6	**Iron**	**15.8**		mg/L	0.020	0.020	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:37	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:37	MW
7439-95-4	**Magnesium**	**59.7**		mg/L	0.050	0.050	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:37	MW
7439-96-5	**Manganese**	**2.57**		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:37	MW
7440-02-0	**Nickel**	**0.007**		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:37	MW
7440-09-7	**Potassium**	**4.51**		mg/L	0.050	0.050	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:37	MW
7782-49-2	**Selenium**	**0.012**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:37	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:37	MW
7440-23-5	**Sodium**	**61.8**		mg/L	0.100	0.100	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:37	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:37	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:37	MW
7440-66-6	**Zinc**	**0.023**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:37	MW

Sample Information

Client Sample ID: SB-3 (MW) **York Sample ID:** 15A0781-16

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 2:25 pm	01/23/2015

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	01/26/2015 06:46	01/26/2015 12:54	ALD

Mercury by 7473, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	01/26/2015 06:46	01/26/2015 12:54	ALD

Sample Information

Client Sample ID: SB-4 (MW) **York Sample ID:** 15A0781-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 5:25 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
74-97-5	Bromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
108-67-8	**1,3,5-Trimethylbenzene**	**0.29**	J	ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS

Sample Information

Client Sample ID: SB-4 (MW)

York Sample ID: 15A0781-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 5:25 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
123-91-1	1,4-Dioxane	ND		ug/L	40	80	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
110-82-7	Cyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
78-93-3	2-Butanone	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
591-78-6	2-Hexanone	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
67-64-1	Acetone	ND		ug/L	1.0	2.0	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
107-02-8	Acrolein	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
107-13-1	Acrylonitrile	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
71-43-2	**Benzene**	**0.33**	J	ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
75-27-4	Bromodichloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
75-25-2	Bromoform	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
74-83-9	Bromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
75-15-0	Carbon disulfide	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
56-23-5	Carbon tetrachloride	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
108-90-7	Chlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
75-00-3	Chloroethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
67-66-3	Chloroform	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
74-87-3	Chloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
124-48-1	Dibromochloromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
74-95-3	Dibromomethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
100-41-4	**Ethyl Benzene**	**0.54**		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
108-87-2	Methylcyclohexane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
98-82-8	Isopropylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
79-20-9	Methyl acetate	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
75-09-2	Methylene chloride	ND		ug/L	1.0	2.0	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
104-51-8	n-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
103-65-1	**n-Propylbenzene**	**0.47**	J	ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
95-47-6	**o-Xylene**	**0.53**		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS

Sample Information

Client Sample ID: SB-4 (MW) **York Sample ID:** 15A0781-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 5:25 pm	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
179601-23-1	**p- & m- Xylenes**	**1.0**		ug/L	0.50	1.0	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
99-87-6	p-Isopropyltoluene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
135-98-8	sec-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
100-42-5	Styrene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	0.50	1.0	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
98-06-6	tert-Butylbenzene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
127-18-4	Tetrachloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
108-88-3	**Toluene**	**0.22**	J	ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
79-01-6	Trichloroethylene	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
75-01-4	Vinyl Chloride	ND		ug/L	0.20	0.50	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS
1330-20-7	*** Xylenes, Total**	**1.6**		ug/L	0.60	1.5	1	EPA 8260C	01/28/2015 08:44	01/28/2015 15:53	SS

	Surrogate Recoveries	Result	Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*103 %*	*69-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*106 %*	*79-122*
2037-26-5	*Surrogate: Toluene-d8*	*93.5 %*	*81-117*

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	**Acenaphthene**	**0.940**		ug/L	0.100	0.100	2	EPA 8270D	01/26/2015 07:51	01/26/2015 15:06	KH
208-96-8	**Acenaphthylene**	**2.36**		ug/L	0.100	0.100	2	EPA 8270D	01/26/2015 07:51	01/26/2015 15:06	KH
98-86-2	Acetophenone	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
62-53-3	Aniline	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
120-12-7	**Anthracene**	**2.08**		ug/L	0.100	0.100	2	EPA 8270D	01/26/2015 07:51	01/26/2015 15:06	KH
1912-24-9	Atrazine	ND		ug/L	1.00	1.00	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
100-52-7	Benzaldehyde	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
92-87-5	Benzidine	ND		ug/L	20.0	40.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
56-55-3	**Benzo(a)anthracene**	**2.40**		ug/L	0.100	0.100	2	EPA 8270D	01/26/2015 07:51	01/26/2015 15:06	KH
50-32-8	**Benzo(a)pyrene**	**1.80**		ug/L	0.100	0.100	2	EPA 8270D	01/26/2015 07:51	01/26/2015 15:06	KH
205-99-2	**Benzo(b)fluoranthene**	**1.00**		ug/L	0.100	0.100	2	EPA 8270D	01/26/2015 07:51	01/26/2015 15:06	KH
191-24-2	**Benzo(g,h,i)perylene**	**1.08**		ug/L	0.100	0.100	2	EPA 8270D	01/26/2015 07:51	01/26/2015 15:06	KH
65-85-0	Benzoic acid	ND		ug/L	50.0	100	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
207-08-9	**Benzo(k)fluoranthene**	**1.46**		ug/L	0.100	0.100	2	EPA 8270D	01/26/2015 07:51	01/26/2015 15:06	KH

Sample Information

Client Sample ID: SB-4 (MW)

York Sample ID: 15A0781-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 5:25 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes: EXT-EM

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
100-51-6	Benzyl alcohol	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
85-68-7	Benzyl butyl phthalate	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
92-52-4	1,1'-Biphenyl	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
105-60-2	Caprolactam	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
86-74-8	Carbazole	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
106-47-8	4-Chloroaniline	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
95-57-8	2-Chlorophenol	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
218-01-9	**Chrysene**	**2.04**		ug/L	0.100	0.100	2	EPA 8270D	01/26/2015 07:51	01/26/2015 15:06	KH
53-70-3	**Dibenzo(a,h)anthracene**	**0.560**		ug/L	0.100	0.100	2	EPA 8270D	01/26/2015 07:51	01/26/2015 15:06	KH
132-64-9	Dibenzofuran	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
84-66-2	Diethyl phthalate	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
131-11-3	Dimethyl phthalate	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
117-81-7	**Bis(2-ethylhexyl)phthalate**	**1.02**		ug/L	1.00	1.00	2	EPA 8270D	01/26/2015 07:51	01/26/2015 15:06	KH
206-44-0	**Fluoranthene**	**6.60**		ug/L	0.100	0.100	2	EPA 8270D	01/26/2015 07:51	01/26/2015 15:06	KH
86-73-7	**Fluorene**	**3.94**		ug/L	0.100	0.100	2	EPA 8270D	01/26/2015 07:51	01/26/2015 15:06	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0400	0.0400	2	EPA 8270D	01/26/2015 07:51	01/26/2015 15:06	KH

Sample Information

Client Sample ID: **SB-4 (MW)** **York Sample ID:** **15A0781-17**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 5:25 pm	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes: **EXT-EM**

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/L	1.00	1.00	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
67-72-1	Hexachloroethane	ND		ug/L	1.00	1.00	2	EPA 8270D	01/26/2015 07:51	01/26/2015 15:06	KH
193-39-5	**Indeno(1,2,3-cd)pyrene**	**1.06**		ug/L	0.100	0.100	2	EPA 8270D	01/26/2015 07:51	01/26/2015 15:06	KH
78-59-1	Isophorone	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
91-57-6	**2-Methylnaphthalene**	**7.42**	J	ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
95-48-7	2-Methylphenol	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
91-20-3	**Naphthalene**	**11.7**		ug/L	0.100	0.100	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
99-09-2	3-Nitroaniline	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
100-01-6	4-Nitroaniline	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
88-74-4	2-Nitroaniline	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
98-95-3	Nitrobenzene	ND		ug/L	0.500	0.500	2	EPA 8270D	01/26/2015 07:51	01/26/2015 15:06	KH
100-02-7	4-Nitrophenol	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
88-75-5	2-Nitrophenol	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	1.00	1.00	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.500	0.500	2	EPA 8270D	01/26/2015 07:51	01/26/2015 15:06	KH
85-01-8	**Phenanthrene**	**12.6**		ug/L	0.100	0.100	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
108-95-2	Phenol	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
129-00-0	**Pyrene**	**5.94**		ug/L	0.100	0.100	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	5.00	10.0	2	EPA 8270D	01/26/2015 07:51	01/26/2015 13:04	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*36.9 %*	*10-47*
4165-62-2	*Surrogate: Phenol-d5*	*24.3 %*	*10-37*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*61.3 %*	*10-109*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*60.3 %*	*10-97*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*56.4 %*	*10-112*
1718-51-0	*Surrogate: Terphenyl-d14*	*62.8 %*	*10-137*

Sample Information

Client Sample ID: SB-4 (MW) **York Sample ID:** 15A0781-17

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 5:25 pm	01/23/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0513	0.0513	1	EPA 8082A	01/26/2015 07:55	01/26/2015 17:55	AMC
11104-28-2	Aroclor 1221	ND		ug/L	0.0513	0.0513	1	EPA 8082A	01/26/2015 07:55	01/26/2015 17:55	AMC
11141-16-5	Aroclor 1232	ND		ug/L	0.0513	0.0513	1	EPA 8082A	01/26/2015 07:55	01/26/2015 17:55	AMC
53469-21-9	Aroclor 1242	ND		ug/L	0.0513	0.0513	1	EPA 8082A	01/26/2015 07:55	01/26/2015 17:55	AMC
12672-29-6	Aroclor 1248	ND		ug/L	0.0513	0.0513	1	EPA 8082A	01/26/2015 07:55	01/26/2015 17:55	AMC
11097-69-1	Aroclor 1254	ND		ug/L	0.0513	0.0513	1	EPA 8082A	01/26/2015 07:55	01/26/2015 17:55	AMC
11096-82-5	Aroclor 1260	ND		ug/L	0.0513	0.0513	1	EPA 8082A	01/26/2015 07:55	01/26/2015 17:55	AMC
1336-36-3	* Total PCBs	ND		ug/L	0.0513	0.0513	1	EPA 8082A	01/26/2015 07:55	01/26/2015 17:55	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*83.7 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*53.7 %*	*30-120*

Metals, Dissolved - Target Analyte (TAL)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.330**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:02	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:02	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:02	MW
7440-39-3	**Barium**	**0.111**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:02	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:02	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:02	MW
7440-70-2	**Calcium**	**124**		mg/L	0.050	0.050	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:02	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:02	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:02	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:02	MW
7439-89-6	**Iron**	**0.070**		mg/L	0.020	0.020	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:02	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:02	MW
7439-95-4	**Magnesium**	**23.7**		mg/L	0.050	0.050	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:02	MW
7439-96-5	**Manganese**	**3.91**		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:02	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:02	MW
7440-09-7	**Potassium**	**7.02**		mg/L	0.050	0.050	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:02	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:02	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:02	MW
7440-23-5	**Sodium**	**32.7**		mg/L	0.100	0.100	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:02	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:02	MW

Sample Information

Client Sample ID: **SB-4 (MW)** **York Sample ID:** **15A0781-17**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 5:25 pm	01/23/2015

Metals, Dissolved - Target Analyte (TAL)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:02	MW
7440-66-6	**Zinc**	**0.017**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:02	MW

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**7.34**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:42	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:42	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:42	MW
7440-39-3	**Barium**	**0.218**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:42	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:42	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:42	MW
7440-70-2	**Calcium**	**126**		mg/L	0.050	0.050	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:42	MW
7440-47-3	**Chromium**	**0.020**		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:42	MW
7440-48-4	**Cobalt**	**0.012**		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:42	MW
7440-50-8	**Copper**	**0.019**		mg/L	0.003	0.003	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:42	MW
7439-89-6	**Iron**	**12.6**		mg/L	0.020	0.020	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:42	MW
7439-92-1	**Lead**	**0.014**		mg/L	0.003	0.003	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:42	MW
7439-95-4	**Magnesium**	**27.8**		mg/L	0.050	0.050	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:42	MW
7439-96-5	**Manganese**	**4.73**		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:42	MW
7440-02-0	**Nickel**	**0.025**		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:42	MW
7440-09-7	**Potassium**	**8.32**		mg/L	0.050	0.050	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:42	MW
7782-49-2	**Selenium**	**0.012**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:42	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:42	MW
7440-23-5	**Sodium**	**32.7**		mg/L	0.100	0.100	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:42	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:42	MW
7440-62-2	**Vanadium**	**0.022**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:42	MW
7440-66-6	**Zinc**	**0.063**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 14:20	01/26/2015 22:42	MW

Sample Information

Client Sample ID: **SB-4 (MW)** **York Sample ID:** **15A0781-17**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 5:25 pm	01/23/2015

Mercury by 7473

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	01/26/2015 06:46	01/26/2015 12:54	ALD

Mercury by 7473, Dissolved

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	01/26/2015 06:46	01/26/2015 12:54	ALD

Sample Information

Client Sample ID: **DUP** **York Sample ID:** **15A0781-18**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 12:00 am	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes: **Sample Notes:**

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
630-20-6	1,1,1,2-Tetrachloroethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
71-55-6	1,1,1-Trichloroethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
79-34-5	1,1,2,2-Tetrachloroethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
79-00-5	1,1,2-Trichloroethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
75-34-3	1,1-Dichloroethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
75-35-4	1,1-Dichloroethylene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
74-97-5	Bromochloromethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
96-18-4	1,2,3-Trichloropropane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
95-63-6	1,2,4-Trimethylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
96-12-8	1,2-Dibromo-3-chloropropane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
106-93-4	1,2-Dibromoethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
107-06-2	1,2-Dichloroethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
78-87-5	1,2-Dichloropropane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
108-67-8	**1,3,5-Trimethylbenzene**	**56**		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS

Sample Information

Client Sample ID: **DUP**

York Sample ID: **15A0781-18**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 12:00 am	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
123-91-1	1,4-Dioxane	ND		ug/L	400	800	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
110-82-7	**Cyclohexane**	**180**		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
78-93-3	2-Butanone	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
591-78-6	2-Hexanone	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
108-10-1	4-Methyl-2-pentanone	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
67-64-1	Acetone	ND		ug/L	10	20	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
107-02-8	Acrolein	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
107-13-1	Acrylonitrile	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
71-43-2	**Benzene**	**63**		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
75-27-4	Bromodichloromethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
75-25-2	Bromoform	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
74-83-9	Bromomethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
75-15-0	Carbon disulfide	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
56-23-5	Carbon tetrachloride	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
108-90-7	Chlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
75-00-3	Chloroethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
67-66-3	Chloroform	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
74-87-3	**Chloromethane**	**3.0**	J	ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
156-59-2	cis-1,2-Dichloroethylene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
10061-01-5	cis-1,3-Dichloropropylene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
124-48-1	Dibromochloromethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
74-95-3	Dibromomethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
75-71-8	Dichlorodifluoromethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
100-41-4	**Ethyl Benzene**	**110**		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
108-87-2	**Methylcyclohexane**	**110**		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
87-68-3	Hexachlorobutadiene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
98-82-8	**Isopropylbenzene**	**28**		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
79-20-9	Methyl acetate	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
1634-04-4	Methyl tert-butyl ether (MTBE)	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
75-09-2	Methylene chloride	ND		ug/L	10	20	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
104-51-8	**n-Butylbenzene**	**21**	B	ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
103-65-1	**n-Propylbenzene**	**92**		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
95-47-6	**o-Xylene**	**4.6**	J	ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
87-61-6	1,2,3-Trichlorobenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
179601-23-1	**p- & m- Xylenes**	**40**		ug/L	5.0	10	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS

Sample Information

Client Sample ID: DUP

York Sample ID: 15A0781-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 12:00 am	01/23/2015

Volatile Organics, 8260 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 5030B

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
99-87-6	**p-Isopropyltoluene**	**3.7**	J	ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
135-98-8	**sec-Butylbenzene**	**7.7**		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
100-42-5	Styrene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
75-65-0	tert-Butyl alcohol (TBA)	ND		ug/L	5.0	10	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
98-06-6	tert-Butylbenzene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
127-18-4	Tetrachloroethylene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
108-88-3	**Toluene**	**11**		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
156-60-5	trans-1,2-Dichloroethylene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
10061-02-6	trans-1,3-Dichloropropylene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
79-01-6	Trichloroethylene	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
75-69-4	Trichlorofluoromethane	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
75-01-4	Vinyl Chloride	ND		ug/L	2.0	5.0	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS
1330-20-7	*** Xylenes, Total**	**45**		ug/L	6.0	15	10	EPA 8260C	01/28/2015 08:44	01/28/2015 17:45	SS

	Surrogate Recoveries	Result		Acceptance Range
17060-07-0	*Surrogate: 1,2-Dichloroethane-d4*	*68.8 %*	S-04	*69-130*
460-00-4	*Surrogate: p-Bromofluorobenzene*	*100 %*		*79-122*
2037-26-5	*Surrogate: Toluene-d8*	*91.9 %*		*81-117*

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
83-32-9	**Acenaphthene**	**0.0800**		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:05	KH
208-96-8	**Acenaphthylene**	**0.0800**		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:05	KH
98-86-2	Acetophenone	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
62-53-3	Aniline	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
120-12-7	**Anthracene**	**0.0900**		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:05	KH
1912-24-9	Atrazine	ND		ug/L	0.500	0.500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:05	KH
100-52-7	Benzaldehyde	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
92-87-5	Benzidine	ND		ug/L	10.0	20.0	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
56-55-3	Benzo(a)anthracene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:05	KH
50-32-8	Benzo(a)pyrene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:05	KH
205-99-2	Benzo(b)fluoranthene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:05	KH
191-24-2	Benzo(g,h,i)perylene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:05	KH
65-85-0	Benzoic acid	ND		ug/L	25.0	50.0	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
207-08-9	Benzo(k)fluoranthene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:05	KH
100-51-6	Benzyl alcohol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH

Sample Information

Client Sample ID: DUP

York Sample ID: 15A0781-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 12:00 am	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
85-68-7	Benzyl butyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
92-52-4	1,1'-Biphenyl	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
101-55-3	4-Bromophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
105-60-2	Caprolactam	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
86-74-8	Carbazole	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
59-50-7	4-Chloro-3-methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
106-47-8	4-Chloroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
111-91-1	Bis(2-chloroethoxy)methane	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
111-44-4	Bis(2-chloroethyl)ether	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
108-60-1	Bis(2-chloroisopropyl)ether	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
91-58-7	2-Chloronaphthalene	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
95-57-8	2-Chlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
7005-72-3	4-Chlorophenyl phenyl ether	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
218-01-9	Chrysene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:05	KH
53-70-3	Dibenzo(a,h)anthracene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:05	KH
132-64-9	Dibenzofuran	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
84-74-2	Di-n-butyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
106-46-7	1,4-Dichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
95-50-1	1,2-Dichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
541-73-1	1,3-Dichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
91-94-1	3,3'-Dichlorobenzidine	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
120-83-2	2,4-Dichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
84-66-2	Diethyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
105-67-9	2,4-Dimethylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
131-11-3	Dimethyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
534-52-1	4,6-Dinitro-2-methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
51-28-5	2,4-Dinitrophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
121-14-2	2,4-Dinitrotoluene	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
606-20-2	2,6-Dinitrotoluene	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
117-84-0	Di-n-octyl phthalate	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
122-66-7	1,2-Diphenylhydrazine (as Azobenzene)	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
117-81-7	**Bis(2-ethylhexyl)phthalate**	**0.790**		ug/L	0.500	0.500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:05	KH
206-44-0	Fluoranthene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:05	KH
86-73-7	**Fluorene**	**0.130**		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:05	KH
118-74-1	Hexachlorobenzene	ND		ug/L	0.0200	0.0200	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:05	KH

Sample Information

Client Sample ID: DUP

York Sample ID: 15A0781-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 12:00 am	01/23/2015

Semi-Volatiles, 8270 - Comprehensive

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3510C

CAS No.	Parameter	Result	Flag	Units	Reported to LOD/MDL	LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
87-68-3	Hexachlorobutadiene	ND		ug/L	0.500	0.500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
77-47-4	Hexachlorocyclopentadiene	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
67-72-1	Hexachloroethane	ND		ug/L	0.500	0.500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:05	KH
193-39-5	Indeno(1,2,3-cd)pyrene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:05	KH
78-59-1	Isophorone	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
91-57-6	**2-Methylnaphthalene**	**33.5**		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
95-48-7	2-Methylphenol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
65794-96-9	3- & 4-Methylphenols	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
91-20-3	**Naphthalene**	**27.7**		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
99-09-2	3-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
100-01-6	4-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
88-74-4	2-Nitroaniline	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
98-95-3	Nitrobenzene	ND		ug/L	0.250	0.250	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:05	KH
100-02-7	4-Nitrophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
88-75-5	2-Nitrophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
621-64-7	N-nitroso-di-n-propylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
62-75-9	N-Nitrosodimethylamine	ND		ug/L	0.500	0.500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:05	KH
86-30-6	N-Nitrosodiphenylamine	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
87-86-5	Pentachlorophenol	ND		ug/L	0.250	0.250	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:05	KH
85-01-8	**Phenanthrene**	**0.130**		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:05	KH
108-95-2	Phenol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
129-00-0	Pyrene	ND		ug/L	0.0500	0.0500	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:05	KH
95-94-3	1,2,4,5-Tetrachlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
58-90-2	2,3,4,6-Tetrachlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
120-82-1	1,2,4-Trichlorobenzene	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
88-06-2	2,4,6-Trichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH
95-95-4	2,4,5-Trichlorophenol	ND		ug/L	2.50	5.00	1	EPA 8270D	01/26/2015 07:51	01/26/2015 13:36	KH

	Surrogate Recoveries	Result	Acceptance Range
367-12-4	*Surrogate: 2-Fluorophenol*	*32.6 %*	*10-47*
4165-62-2	*Surrogate: Phenol-d5*	*19.9 %*	*10-37*
4165-60-0	*Surrogate: Nitrobenzene-d5*	*50.3 %*	*10-109*
321-60-8	*Surrogate: 2-Fluorobiphenyl*	*48.9 %*	*10-97*
118-79-6	*Surrogate: 2,4,6-Tribromophenol*	*43.5 %*	*10-112*
1718-51-0	*Surrogate: Terphenyl-d14*	*49.3 %*	*10-137*

Sample Information

Client Sample ID: DUP

York Sample ID: 15A0781-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 12:00 am	01/23/2015

Polychlorinated Biphenyls (PCB)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA SW846-3510C Low Level

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
12674-11-2	Aroclor 1016	ND		ug/L	0.0500	0.0500	1	EPA 8082A	01/26/2015 07:55	01/26/2015 18:24	AMC
11104-28-2	Aroclor 1221	ND		ug/L	0.0500	0.0500	1	EPA 8082A	01/26/2015 07:55	01/26/2015 18:24	AMC
11141-16-5	Aroclor 1232	ND		ug/L	0.0500	0.0500	1	EPA 8082A	01/26/2015 07:55	01/26/2015 18:24	AMC
53469-21-9	Aroclor 1242	ND		ug/L	0.0500	0.0500	1	EPA 8082A	01/26/2015 07:55	01/26/2015 18:24	AMC
12672-29-6	Aroclor 1248	ND		ug/L	0.0500	0.0500	1	EPA 8082A	01/26/2015 07:55	01/26/2015 18:24	AMC
11097-69-1	Aroclor 1254	ND		ug/L	0.0500	0.0500	1	EPA 8082A	01/26/2015 07:55	01/26/2015 18:24	AMC
11096-82-5	Aroclor 1260	ND		ug/L	0.0500	0.0500	1	EPA 8082A	01/26/2015 07:55	01/26/2015 18:24	AMC
1336-36-3	* Total PCBs	ND		ug/L	0.0500	0.0500	1	EPA 8082A	01/26/2015 07:55	01/26/2015 18:24	AMC

	Surrogate Recoveries	Result	Acceptance Range
877-09-8	*Surrogate: Tetrachloro-m-xylene*	*73.4 %*	*30-120*
2051-24-3	*Surrogate: Decachlorobiphenyl*	*42.8 %*	*30-120*

Metals, Dissolved - Target Analyte (TAL)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**0.288**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:07	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:07	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:07	MW
7440-39-3	**Barium**	**0.177**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:07	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:07	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:07	MW
7440-70-2	**Calcium**	**117**		mg/L	0.050	0.050	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:07	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:07	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:07	MW
7440-50-8	Copper	ND		mg/L	0.003	0.003	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:07	MW
7439-89-6	**Iron**	**14.6**		mg/L	0.020	0.020	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:07	MW
7439-92-1	Lead	ND		mg/L	0.003	0.003	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:07	MW
7439-95-4	**Magnesium**	**58.0**		mg/L	0.050	0.050	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:07	MW
7439-96-5	**Manganese**	**2.49**		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:07	MW
7440-02-0	Nickel	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:07	MW
7440-09-7	**Potassium**	**4.02**		mg/L	0.050	0.050	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:07	MW
7782-49-2	**Selenium**	**0.010**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:07	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:07	MW
7440-23-5	**Sodium**	**60.1**		mg/L	0.100	0.100	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:07	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:07	MW

Sample Information

Client Sample ID: DUP

York Sample ID: 15A0781-18

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 12:00 am	01/23/2015

Metals, Dissolved - Target Analyte (TAL)

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:07	MW
7440-66-6	**Zinc**	**0.017**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 09:09	01/26/2015 20:07	MW

Metals, Target Analyte

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 3010A

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7429-90-5	**Aluminum**	**1.09**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 14:20	01/26/2015 23:00	MW
7440-36-0	Antimony	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 14:20	01/26/2015 23:00	MW
7440-38-2	Arsenic	ND		mg/L	0.004	0.004	1	EPA 6010C	01/26/2015 14:20	01/26/2015 23:00	MW
7440-39-3	**Barium**	**0.177**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 14:20	01/26/2015 23:00	MW
7440-41-7	Beryllium	ND		mg/L	0.001	0.001	1	EPA 6010C	01/26/2015 14:20	01/26/2015 23:00	MW
7440-43-9	Cadmium	ND		mg/L	0.003	0.003	1	EPA 6010C	01/26/2015 14:20	01/26/2015 23:00	MW
7440-70-2	**Calcium**	**109**		mg/L	0.050	0.050	1	EPA 6010C	01/26/2015 14:20	01/26/2015 23:00	MW
7440-47-3	Chromium	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 14:20	01/26/2015 23:00	MW
7440-48-4	Cobalt	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 14:20	01/26/2015 23:00	MW
7440-50-8	**Copper**	**0.008**		mg/L	0.003	0.003	1	EPA 6010C	01/26/2015 14:20	01/26/2015 23:00	MW
7439-89-6	**Iron**	**14.4**		mg/L	0.020	0.020	1	EPA 6010C	01/26/2015 14:20	01/26/2015 23:00	MW
7439-92-1	**Lead**	**0.003**		mg/L	0.003	0.003	1	EPA 6010C	01/26/2015 14:20	01/26/2015 23:00	MW
7439-95-4	**Magnesium**	**54.9**		mg/L	0.050	0.050	1	EPA 6010C	01/26/2015 14:20	01/26/2015 23:00	MW
7439-96-5	**Manganese**	**2.39**		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 14:20	01/26/2015 23:00	MW
7440-02-0	**Nickel**	**0.007**		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 14:20	01/26/2015 23:00	MW
7440-09-7	**Potassium**	**4.30**		mg/L	0.050	0.050	1	EPA 6010C	01/26/2015 14:20	01/26/2015 23:00	MW
7782-49-2	Selenium	ND		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 14:20	01/26/2015 23:00	MW
7440-22-4	Silver	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 14:20	01/26/2015 23:00	MW
7440-23-5	**Sodium**	**58.8**		mg/L	0.100	0.100	1	EPA 6010C	01/26/2015 14:20	01/26/2015 23:00	MW
7440-28-0	Thallium	ND		mg/L	0.005	0.005	1	EPA 6010C	01/26/2015 14:20	01/26/2015 23:00	MW
7440-62-2	Vanadium	ND		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 14:20	01/26/2015 23:00	MW
7440-66-6	**Zinc**	**0.030**		mg/L	0.010	0.010	1	EPA 6010C	01/26/2015 14:20	01/26/2015 23:00	MW

Sample Information

Client Sample ID: **DUP**

York Sample ID: **15A0781-18**

York Project (SDG) No.	Client Project ID	Matrix	Collection Date/Time	Date Received
15A0781	140115301	Water	January 23, 2015 12:00 am	01/23/2015

Mercury by 7473

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	01/26/2015 06:46	01/26/2015 12:54	ALD

Mercury by 7473, Dissolved

Log-in Notes:

Sample Notes:

Sample Prepared by Method: EPA 7473 water

CAS No.	Parameter	Result	Flag	Units	LOD/MDL	Reported to LOQ	Dilution	Reference Method	Date/Time Prepared	Date/Time Analyzed	Analyst
7439-97-6	Mercury	ND		mg/L	0.00020	0.00020	1	EPA 7473	01/26/2015 06:46	01/26/2015 12:54	ALD

Analytical Batch Summary

Batch ID: BA51071 **Preparation Method:** EPA 3545A **Prepared By:** DB

YORK Sample ID	Client Sample ID	Preparation Date
15A0781-01	SB-1 (2.5-4.5)	01/23/15
15A0781-01	SB-1 (2.5-4.5)	01/23/15
15A0781-02	SB-1 (7-9)	01/23/15
15A0781-02	SB-1 (7-9)	01/23/15
15A0781-03	SB-2 (1.5-3.5)	01/23/15
15A0781-03	SB-2 (1.5-3.5)	01/23/15
15A0781-04	SB-2 (8-10)	01/23/15
15A0781-04	SB-2 (8-10)	01/23/15
15A0781-05	SB-3 (1-3)	01/23/15
15A0781-05	SB-3 (1-3)	01/23/15
15A0781-06	SB-4 (1.5-3.5)	01/23/15
15A0781-06	SB-4 (1.5-3.5)	01/23/15
15A0781-07	SB-3 (11-13)	01/23/15
15A0781-07	SB-3 (11-13)	01/23/15
15A0781-08	SB-4 (6-8)	01/23/15
15A0781-08	SB-4 (6-8)	01/23/15
15A0781-09	SB-5 (1-3)	01/23/15
15A0781-09	SB-5 (1-3)	01/23/15
15A0781-10	SB-5 (14-16)	01/23/15
15A0781-10	SB-5 (14-16)	01/23/15
15A0781-11	SB-6 (0-2)	01/23/15
15A0781-11	SB-6 (0-2)	01/23/15
15A0781-12	DUP-1	01/23/15
15A0781-12	DUP-1	01/23/15
BA51071-BLK1	Blank	01/23/15
BA51071-BLK1	Blank	01/23/15
BA51071-BS1	LCS	01/23/15
BA51071-BS2	LCS	01/23/15
BA51071-BSD1	LCS Dup	01/23/15
BA51071-MS1	Matrix Spike	01/23/15

Batch ID: BA51072 **Preparation Method:** EPA 3550C **Prepared By:** SA

YORK Sample ID	Client Sample ID	Preparation Date
15A0781-01	SB-1 (2.5-4.5)	01/23/15
15A0781-02	SB-1 (7-9)	01/23/15
15A0781-03	SB-2 (1.5-3.5)	01/23/15
15A0781-04	SB-2 (8-10)	01/23/15
15A0781-05	SB-3 (1-3)	01/23/15
15A0781-06	SB-4 (1.5-3.5)	01/23/15
15A0781-07	SB-3 (11-13)	01/23/15
15A0781-08	SB-4 (6-8)	01/23/15
15A0781-09	SB-5 (1-3)	01/23/15
15A0781-10	SB-5 (14-16)	01/23/15
15A0781-11	SB-6 (0-2)	01/23/15
15A0781-12	DUP-1	01/23/15

BA51072-BLK1	Blank	01/23/15
BA51072-BS1	LCS	01/23/15
BA51072-BSD1	LCS Dup	01/23/15
BA51072-MS1	Matrix Spike	01/23/15

Batch ID: BA51075 **Preparation Method:** EPA 7473 soil **Prepared By:** ALD

YORK Sample ID	Client Sample ID	Preparation Date
15A0781-01	SB-1 (2.5-4.5)	01/26/15
15A0781-02	SB-1 (7-9)	01/26/15
15A0781-03	SB-2 (1.5-3.5)	01/26/15
15A0781-04	SB-2 (8-10)	01/26/15
15A0781-05	SB-3 (1-3)	01/26/15
15A0781-06	SB-4 (1.5-3.5)	01/26/15
15A0781-07	SB-3 (11-13)	01/26/15
15A0781-08	SB-4 (6-8)	01/26/15
15A0781-09	SB-5 (1-3)	01/26/15
15A0781-10	SB-5 (14-16)	01/26/15
15A0781-11	SB-6 (0-2)	01/26/15
15A0781-12	DUP-1	01/26/15
BA51075-BLK1	Blank	01/26/15
BA51075-SRM1	Reference	01/26/15

Batch ID: BA51076 **Preparation Method:** EPA 7473 water **Prepared By:** ALD

YORK Sample ID	Client Sample ID	Preparation Date
15A0781-14	SB-1 (MW)	01/26/15
15A0781-16	SB-3 (MW)	01/26/15
15A0781-17	SB-4 (MW)	01/26/15
15A0781-18	DUP	01/26/15
BA51076-BLK1	Blank	01/26/15
BA51076-DUP1	Duplicate	01/26/15
BA51076-MS1	Matrix Spike	01/26/15
BA51076-SRM1	Reference	01/26/15

Batch ID: BA51083 **Preparation Method:** EPA 3510C **Prepared By:** KAT

YORK Sample ID	Client Sample ID	Preparation Date
15A0781-14	SB-1 (MW)	01/26/15
15A0781-15	SB-2 (MW)	01/26/15
15A0781-16	SB-3 (MW)	01/26/15
15A0781-17	SB-4 (MW)	01/26/15
15A0781-18	DUP	01/26/15
BA51083-BLK1	Blank	01/26/15
BA51083-BS1	LCS	01/26/15
BA51083-BS2	LCS	01/26/15
BA51083-BSD1	LCS Dup	01/26/15

Batch ID: BA51084 **Preparation Method:** EPA SW846-3510C Low Level **Prepared By:** KAT

YORK Sample ID	Client Sample ID	Preparation Date
15A0781-14	SB-1 (MW)	01/26/15
15A0781-16	SB-3 (MW)	01/26/15
15A0781-17	SB-4 (MW)	01/26/15
15A0781-18	DUP	01/26/15
BA51084-BLK1	Blank	01/26/15
BA51084-BS2	LCS	01/26/15
BA51084-BSD2	LCS Dup	01/26/15

Batch ID: BA51088 **Preparation Method:** % Solids Prep **Prepared By:** SCA

YORK Sample ID	Client Sample ID	Preparation Date
15A0781-01	SB-1 (2.5-4.5)	01/26/15
15A0781-02	SB-1 (7-9)	01/26/15
15A0781-03	SB-2 (1.5-3.5)	01/26/15
15A0781-04	SB-2 (8-10)	01/26/15
15A0781-05	SB-3 (1-3)	01/26/15
15A0781-06	SB-4 (1.5-3.5)	01/26/15
15A0781-07	SB-3 (11-13)	01/26/15
15A0781-08	SB-4 (6-8)	01/26/15
15A0781-09	SB-5 (1-3)	01/26/15
15A0781-10	SB-5 (14-16)	01/26/15
15A0781-11	SB-6 (0-2)	01/26/15
15A0781-12	DUP-1	01/26/15
BA51088-DUP1	Duplicate	01/26/15

Batch ID: BA51096 **Preparation Method:** EPA 3050B **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
15A0781-01	SB-1 (2.5-4.5)	01/26/15
15A0781-02	SB-1 (7-9)	01/26/15
15A0781-03	SB-2 (1.5-3.5)	01/26/15
15A0781-04	SB-2 (8-10)	01/26/15
15A0781-05	SB-3 (1-3)	01/26/15
15A0781-06	SB-4 (1.5-3.5)	01/26/15
15A0781-07	SB-3 (11-13)	01/26/15
15A0781-08	SB-4 (6-8)	01/26/15
15A0781-09	SB-5 (1-3)	01/26/15
15A0781-10	SB-5 (14-16)	01/26/15
15A0781-11	SB-6 (0-2)	01/26/15
15A0781-12	DUP-1	01/26/15
BA51096-BLK1	Blank	01/26/15
BA51096-SRM1	Reference	01/26/15

Batch ID: BA51098 **Preparation Method:** EPA 3010A **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
15A0781-14	SB-1 (MW)	01/26/15
15A0781-16	SB-3 (MW)	01/26/15
15A0781-17	SB-4 (MW)	01/26/15

15A0781-18	DUP	01/26/15
BA51098-BLK1	Blank	01/26/15
BA51098-DUP1	Duplicate	01/26/15
BA51098-MS1	Matrix Spike	01/26/15
BA51098-SRM1	Reference	01/26/15
BA51098-SRM2	Reference	01/26/15

Batch ID: BA51132 **Preparation Method:** EPA 3010A **Prepared By:** MW

YORK Sample ID	Client Sample ID	Preparation Date
15A0781-14	SB-1 (MW)	01/26/15
15A0781-16	SB-3 (MW)	01/26/15
15A0781-17	SB-4 (MW)	01/26/15
15A0781-18	DUP	01/26/15
BA51132-BLK1	Blank	01/26/15
BA51132-SRM1	Reference	01/26/15
BA51132-SRM2	Reference	01/26/15

Batch ID: BA51138 **Preparation Method:** EPA 5035A **Prepared By:** BGS

YORK Sample ID	Client Sample ID	Preparation Date
15A0781-02	SB-1 (7-9)	01/26/15
15A0781-04	SB-2 (8-10)	01/26/15
15A0781-05	SB-3 (1-3)	01/26/15
BA51138-BLK1	Blank	01/26/15
BA51138-BS1	LCS	01/26/15
BA51138-BSD1	LCS Dup	01/26/15

Batch ID: BA51158 **Preparation Method:** EPA 5035A **Prepared By:** OW

YORK Sample ID	Client Sample ID	Preparation Date
15A0781-06	SB-4 (1.5-3.5)	01/26/15
15A0781-07	SB-3 (11-13)	01/26/15
15A0781-08	SB-4 (6-8)	01/26/15
15A0781-09	SB-5 (1-3)	01/26/15
BA51158-BLK1	Blank	01/26/15
BA51158-BS1	LCS	01/26/15
BA51158-BSD1	LCS Dup	01/26/15

Batch ID: BA51159 **Preparation Method:** EPA 5035A **Prepared By:** OW

YORK Sample ID	Client Sample ID	Preparation Date
15A0781-10	SB-5 (14-16)	01/27/15
15A0781-11	SB-6 (0-2)	01/27/15
15A0781-12	DUP-1	01/27/15
BA51159-BLK1	Blank	01/27/15
BA51159-BS1	LCS	01/27/15
BA51159-BSD1	LCS Dup	01/27/15

Batch ID: BA51172 **Preparation Method:** EPA 5030B **Prepared By:** BGS

YORK Sample ID	Client Sample ID	Preparation Date
15A0781-13	Trip Blank	01/28/15
15A0781-14	SB-1 (MW)	01/28/15
15A0781-15	SB-2 (MW)	01/28/15
15A0781-16	SB-3 (MW)	01/28/15
15A0781-17	SB-4 (MW)	01/28/15
15A0781-18	DUP	01/28/15
BA51172-BLK1	Blank	01/28/15
BA51172-BS1	LCS	01/28/15
BA51172-BSD1	LCS Dup	01/28/15

Batch ID: BA51204 **Preparation Method:** EPA 5035A **Prepared By:** BGS

YORK Sample ID	Client Sample ID	Preparation Date
15A0781-01	SB-1 (2.5-4.5)	01/28/15
15A0781-03	SB-2 (1.5-3.5)	01/28/15
BA51204-BLK1	Blank	01/28/15
BA51204-BS1	LCS	01/28/15
BA51204-BSD1	LCS Dup	01/28/15

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51138 - EPA 5035A											
Blank (BA51138-BLK1)											Prepared & Analyzed: 01/26/2015
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	5.0	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
1,4-Dioxane	ND	100	"								
Cyclohexane	ND	5.0	"								
2-Butanone	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrolein	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon disulfide	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Methylcyclohexane	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl acetate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
n-Butylbenzene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	5.0	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51138 - EPA 5035A											
Blank (BA51138-BLK1)								Prepared & Analyzed: 01/26/2015			
n-Propylbenzene	ND	5.0	ug/kg wet								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butyl alcohol (TBA)	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Surrogate: 1,2-Dichloroethane-d4	*50.7*		*ug/L*	*50.0*		*101*	*77-125*				
Surrogate: p-Bromofluorobenzene	*48.4*		*"*	*50.0*		*96.7*	*76-130*				
Surrogate: Toluene-d8	*49.4*		*"*	*50.0*		*98.9*	*85-120*				
LCS (BA51138-BS1)								Prepared & Analyzed: 01/26/2015			
1,1,1,2-Tetrachloroethane	48		ug/L	50.0		97.0	75-129				
1,1,1-Trichloroethane	51		"	50.0		101	71-137				
1,1,2,2-Tetrachloroethane	46		"	50.0		91.5	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	60		"	50.0		121	58-146				
1,1,2-Trichloroethane	46		"	50.0		91.4	83-123				
1,1-Dichloroethane	48		"	50.0		95.9	75-130				
1,1-Dichloroethylene	56		"	50.0		112	64-137				
Bromochloromethane	38		"	50.0		76.1	74-129				
1,2,3-Trichloropropane	45		"	50.0		90.1	81-126				
1,2,4-Trichlorobenzene	50		"	50.0		100	80-141				
1,2,4-Trimethylbenzene	49		"	50.0		97.5	84-125				
1,2-Dibromo-3-chloropropane	42		"	50.0		84.2	74-142				
1,2-Dibromoethane	47		"	50.0		94.5	86-123				
1,2-Dichlorobenzene	50		"	50.0		99.3	85-122				
1,2-Dichloroethane	48		"	50.0		95.5	71-133				
1,2-Dichloropropane	45		"	50.0		89.2	81-122				
1,3,5-Trimethylbenzene	51		"	50.0		102	82-126				
1,3-Dichlorobenzene	52		"	50.0		103	84-124				
1,4-Dichlorobenzene	52		"	50.0		104	84-124				
1,4-Dioxane	1800		"	1000		178	10-228				
Cyclohexane	47		"	50.0		94.6	70-130				
2-Butanone	52		"	50.0		105	58-147				
2-Hexanone	38		"	50.0		75.3	70-139				
4-Methyl-2-pentanone	37		"	50.0		73.2	72-132				
Acetone	48		"	50.0		95.5	36-155				
Acrolein	170		"	50.0		345	10-238	High Bias			
Acrylonitrile	46		"	50.0		91.8	66-141				
Benzene	50		"	50.0		100	77-127				
Bromodichloromethane	46		"	50.0		91.2	81-124				
Bromoform	52		"	50.0		103	80-136				
Bromomethane	63		"	50.0		127	32-177				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51138 - EPA 5035A											
LCS (BA51138-BS1)							Prepared & Analyzed: 01/26/2015				
Carbon disulfide	63		ug/L	50.0		125	10-136				
Carbon tetrachloride	51		"	50.0		102	66-143				
Chlorobenzene	50		"	50.0		101	86-120				
Chloroethane	67		"	50.0		134	51-142				
Chloroform	49		"	50.0		97.6	76-131				
Chloromethane	48		"	50.0		96.6	49-132				
cis-1,2-Dichloroethylene	51		"	50.0		102	74-132				
cis-1,3-Dichloropropylene	48		"	50.0		95.7	81-129				
Dibromochloromethane	49		"	50.0		97.8	10-200				
Dibromomethane	45		"	50.0		90.3	83-124				
Dichlorodifluoromethane	49		"	50.0		98.6	28-158				
Ethyl Benzene	46		"	50.0		92.6	84-125				
Methylcyclohexane	50		"	50.0		100	70-130				
Hexachlorobutadiene	52		"	50.0		105	83-133				
Isopropylbenzene	51		"	50.0		102	81-127				
Methyl acetate	54		"	50.0		108	41-143				
Methyl tert-butyl ether (MTBE)	49		"	50.0		97.4	74-131				
Methylene chloride	68		"	50.0		137	57-141				
n-Butylbenzene	46		"	50.0		92.0	80-130				
1,2,3-Trichlorobenzene	48		"	50.0		96.3	81-140				
n-Propylbenzene	49		"	50.0		98.0	74-136				
o-Xylene	45		"	50.0		90.6	83-123				
p- & m- Xylenes	92		"	100		91.6	82-128				
p-Isopropyltoluene	50		"	50.0		101	85-125				
sec-Butylbenzene	52		"	50.0		103	83-125				
Styrene	50		"	50.0		99.2	86-126				
tert-Butyl alcohol (TBA)	51		"	50.0		102	70-130				
tert-Butylbenzene	50		"	50.0		101	80-127				
Tetrachloroethylene	51		"	50.0		103	80-129				
Toluene	46		"	50.0		92.0	85-121				
trans-1,2-Dichloroethylene	47		"	50.0		94.8	72-132				
trans-1,3-Dichloropropylene	47		"	50.0		93.4	78-132				
Trichloroethylene	48		"	50.0		95.0	84-123				
Trichlorofluoromethane	64		"	50.0		128	62-140				
Vinyl Chloride	57		"	50.0		113	52-130				
Surrogate: 1,2-Dichloroethane-d4	*49.2*		*"*	*50.0*		*98.4*	*77-125*				
Surrogate: p-Bromofluorobenzene	*54.5*		*"*	*50.0*		*109*	*76-130*				
Surrogate: Toluene-d8	*48.2*		*"*	*50.0*		*96.3*	*85-120*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51138 - EPA 5035A											
LCS Dup (BA51138-BSD1)							Prepared & Analyzed: 01/26/2015				
1,1,1,2-Tetrachloroethane	52		ug/L	50.0		105	75-129		7.52	30	
1,1,1-Trichloroethane	52		"	50.0		103	71-137		2.03	30	
1,1,2,2-Tetrachloroethane	47		"	50.0		93.7	79-129		2.35	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	60		"	50.0		121	58-146		0.0496	30	
1,1,2-Trichloroethane	48		"	50.0		95.8	83-123		4.77	30	
1,1-Dichloroethane	50		"	50.0		99.6	75-130		3.77	30	
1,1-Dichloroethylene	57		"	50.0		115	64-137		2.33	30	
Bromochloromethane	39		"	50.0		77.8	74-129		2.26	30	
1,2,3-Trichloropropane	46		"	50.0		91.8	81-126		1.91	30	
1,2,4-Trichlorobenzene	53		"	50.0		106	80-141		5.25	30	
1,2,4-Trimethylbenzene	48		"	50.0		96.3	84-125		1.26	30	
1,2-Dibromo-3-chloropropane	44		"	50.0		88.6	74-142		5.14	30	
1,2-Dibromoethane	51		"	50.0		102	86-123		7.20	30	
1,2-Dichlorobenzene	52		"	50.0		103	85-122		4.01	30	
1,2-Dichloroethane	50		"	50.0		100	71-133		5.04	30	
1,2-Dichloropropane	46		"	50.0		93.0	81-122		4.17	30	
1,3,5-Trimethylbenzene	49		"	50.0		98.9	82-126		3.38	30	
1,3-Dichlorobenzene	51		"	50.0		103	84-124		0.564	30	
1,4-Dichlorobenzene	51		"	50.0		101	84-124		2.51	30	
1,4-Dioxane	1800		"	1000		182	10-228		1.94	30	
Cyclohexane	48		"	50.0		96.8	70-130		2.28	30	
2-Butanone	51		"	50.0		102	58-147		2.36	30	
2-Hexanone	42		"	50.0		83.1	70-139		9.85	30	
4-Methyl-2-pentanone	41		"	50.0		81.6	72-132		10.8	30	
Acetone	47		"	50.0		94.1	36-155		1.50	30	
Acrolein	180		"	50.0		353	10-238	High Bias	2.05	30	
Acrylonitrile	50		"	50.0		99.9	66-141		8.45	30	
Benzene	50		"	50.0		101	77-127		0.676	30	
Bromodichloromethane	48		"	50.0		96.7	81-124		5.83	30	
Bromoform	52		"	50.0		104	80-136		1.06	30	
Bromomethane	63		"	50.0		126	32-177		0.364	30	
Carbon disulfide	60		"	50.0		121	10-136		3.78	30	
Carbon tetrachloride	52		"	50.0		104	66-143		1.50	30	
Chlorobenzene	53		"	50.0		105	86-120		4.34	30	
Chloroethane	68		"	50.0		136	51-142		1.09	30	
Chloroform	50		"	50.0		101	76-131		3.37	30	
Chloromethane	48		"	50.0		97.0	49-132		0.413	30	
cis-1,2-Dichloroethylene	52		"	50.0		105	74-132		2.56	30	
cis-1,3-Dichloropropylene	50		"	50.0		99.8	81-129		4.26	30	
Dibromochloromethane	54		"	50.0		107	10-200		9.41	30	
Dibromomethane	49		"	50.0		97.5	83-124		7.64	30	
Dichlorodifluoromethane	53		"	50.0		105	28-158		6.51	30	
Ethyl Benzene	49		"	50.0		97.5	84-125		5.20	30	
Methylcyclohexane	50		"	50.0		100	70-130		0.299	30	
Hexachlorobutadiene	50		"	50.0		100	83-133		4.38	30	
Isopropylbenzene	49		"	50.0		98.8	81-127		3.21	30	
Methyl acetate	52		"	50.0		104	41-143		3.91	30	
Methyl tert-butyl ether (MTBE)	52		"	50.0		104	74-131		6.86	30	
Methylene chloride	65		"	50.0		129	57-141		5.76	30	
n-Butylbenzene	47		"	50.0		93.2	80-130		1.30	30	
1,2,3-Trichlorobenzene	53		"	50.0		106	81-140		9.17	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51138 - EPA 5035A											
LCS Dup (BA51138-BSD1)								Prepared & Analyzed: 01/26/2015			
n-Propylbenzene	48		ug/L	50.0		95.5	74-136		2.56	30	
o-Xylene	51		"	50.0		101	83-123		11.0	30	
p- & m- Xylenes	100		"	100		99.6	82-128		8.38	30	
p-Isopropyltoluene	50		"	50.0		99.1	85-125		1.68	30	
sec-Butylbenzene	50		"	50.0		101	83-125		2.57	30	
Styrene	53		"	50.0		106	86-126		6.21	30	
tert-Butyl alcohol (TBA)	56		"	50.0		112	70-130		9.53	30	
tert-Butylbenzene	49		"	50.0		98.5	80-127		2.37	30	
Tetrachloroethylene	51		"	50.0		103	80-129		0.195	30	
Toluene	47		"	50.0		94.4	85-121		2.60	30	
trans-1,2-Dichloroethylene	49		"	50.0		97.7	72-132		3.03	30	
trans-1,3-Dichloropropylene	49		"	50.0		98.9	78-132		5.68	30	
Trichloroethylene	51		"	50.0		101	84-123		6.42	30	
Trichlorofluoromethane	66		"	50.0		133	62-140		3.92	30	
Vinyl Chloride	59		"	50.0		118	52-130		4.07	30	
Surrogate: 1,2-Dichloroethane-d4	*49.5*		*"*	*50.0*		*99.0*	*77-125*				
Surrogate: p-Bromofluorobenzene	*51.6*		*"*	*50.0*		*103*	*76-130*				
Surrogate: Toluene-d8	*49.2*		*"*	*50.0*		*98.4*	*85-120*				
Batch BA51158 - EPA 5035A											
Blank (BA51158-BLK1)								Prepared: 01/26/2015 Analyzed: 01/27/2015			
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	5.0	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
1,4-Dioxane	ND	100	"								
Cyclohexane	ND	5.0	"								
2-Butanone	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrolein	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51158 - EPA 5035A											
Blank (BA51158-BLK1)											
Prepared: 01/26/2015 Analyzed: 01/27/2015											
Bromomethane	ND	5.0	ug/kg wet								
Carbon disulfide	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Methylcyclohexane	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl acetate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
n-Butylbenzene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	5.0	"								
n-Propylbenzene	ND	5.0	"								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butyl alcohol (TBA)	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Surrogate: 1,2-Dichloroethane-d4	*55.0*		*ug/L*	*50.0*		*110*	*77-125*				
Surrogate: p-Bromofluorobenzene	*50.4*		*"*	*50.0*		*101*	*76-130*				
Surrogate: Toluene-d8	*48.3*		*"*	*50.0*		*96.7*	*85-120*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51158 - EPA 5035A											
LCS (BA51158-BS1)								Prepared & Analyzed: 01/26/2015			
1,1,1,2-Tetrachloroethane	51		ug/L	50.0		103	75-129				
1,1,1-Trichloroethane	55		"	50.0		111	71-137				
1,1,2,2-Tetrachloroethane	47		"	50.0		94.6	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	63		"	50.0		126	58-146				
1,1,2-Trichloroethane	50		"	50.0		99.2	83-123				
1,1-Dichloroethane	52		"	50.0		104	75-130				
1,1-Dichloroethylene	62		"	50.0		125	64-137				
Bromochloromethane	42		"	50.0		84.8	74-129				
1,2,3-Trichloropropane	49		"	50.0		97.1	81-126				
1,2,4-Trichlorobenzene	51		"	50.0		101	80-141				
1,2,4-Trimethylbenzene	45		"	50.0		90.0	84-125				
1,2-Dibromo-3-chloropropane	52		"	50.0		103	74-142				
1,2-Dibromoethane	52		"	50.0		104	86-123				
1,2-Dichlorobenzene	51		"	50.0		102	85-122				
1,2-Dichloroethane	54		"	50.0		108	71-133				
1,2-Dichloropropane	44		"	50.0		87.8	81-122				
1,3,5-Trimethylbenzene	45		"	50.0		90.0	82-126				
1,3-Dichlorobenzene	49		"	50.0		98.4	84-124				
1,4-Dichlorobenzene	50		"	50.0		99.1	84-124				
1,4-Dioxane	1900		"	1000		185	10-228				
Cyclohexane	47		"	50.0		94.0	70-130				
2-Butanone	60		"	50.0		120	58-147				
2-Hexanone	43		"	50.0		86.8	70-139				
4-Methyl-2-pentanone	43		"	50.0		86.0	72-132				
Acetone	50		"	50.0		101	36-155				
Acrolein	200		"	50.0		405	10-238	High Bias			
Acrylonitrile	56		"	50.0		113	66-141				
Benzene	53		"	50.0		105	77-127				
Bromodichloromethane	48		"	50.0		96.3	81-124				
Bromoform	54		"	50.0		107	80-136				
Bromomethane	63		"	50.0		125	32-177				
Carbon disulfide	67		"	50.0		134	10-136				
Carbon tetrachloride	56		"	50.0		113	66-143				
Chlorobenzene	51		"	50.0		101	86-120				
Chloroethane	68		"	50.0		137	51-142				
Chloroform	55		"	50.0		110	76-131				
Chloromethane	49		"	50.0		98.9	49-132				
cis-1,2-Dichloroethylene	55		"	50.0		110	74-132				
cis-1,3-Dichloropropylene	51		"	50.0		102	81-129				
Dibromochloromethane	53		"	50.0		106	10-200				
Dibromomethane	49		"	50.0		98.3	83-124				
Dichlorodifluoromethane	58		"	50.0		116	28-158				
Ethyl Benzene	48		"	50.0		95.8	84-125				
Methylcyclohexane	47		"	50.0		93.1	70-130				
Hexachlorobutadiene	50		"	50.0		101	83-133				
Isopropylbenzene	49		"	50.0		97.0	81-127				
Methyl acetate	56		"	50.0		111	41-143				
Methyl tert-butyl ether (MTBE)	58		"	50.0		117	74-131				
Methylene chloride	53		"	50.0		106	57-141				
n-Butylbenzene	45		"	50.0		90.8	80-130				
1,2,3-Trichlorobenzene	51		"	50.0		103	81-140				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51158 - EPA 5035A											
LCS (BA51158-BS1)								Prepared & Analyzed: 01/26/2015			
n-Propylbenzene	45		ug/L	50.0		90.3	74-136				
o-Xylene	49		"	50.0		97.1	83-123				
p- & m- Xylenes	94		"	100		94.3	82-128				
p-Isopropyltoluene	48		"	50.0		95.0	85-125				
sec-Butylbenzene	48		"	50.0		95.0	83-125				
Styrene	50		"	50.0		100	86-126				
tert-Butyl alcohol (TBA)	68		"	50.0		136	70-130	High Bias			
tert-Butylbenzene	48		"	50.0		96.8	80-127				
Tetrachloroethylene	52		"	50.0		104	80-129				
Toluene	48		"	50.0		95.5	85-121				
trans-1,2-Dichloroethylene	53		"	50.0		107	72-132				
trans-1,3-Dichloropropylene	49		"	50.0		97.3	78-132				
Trichloroethylene	49		"	50.0		97.4	84-123				
Trichlorofluoromethane	66		"	50.0		132	62-140				
Vinyl Chloride	60		"	50.0		120	52-130				
Surrogate: 1,2-Dichloroethane-d4	*53.1*		*"*	*50.0*		*106*	*77-125*				
Surrogate: p-Bromofluorobenzene	*50.1*		*"*	*50.0*		*100*	*76-130*				
Surrogate: Toluene-d8	*48.6*		*"*	*50.0*		*97.1*	*85-120*				
LCS Dup (BA51158-BSD1)								Prepared & Analyzed: 01/26/2015			
1,1,1,2-Tetrachloroethane	52		ug/L	50.0		103	75-129		0.893	30	
1,1,1-Trichloroethane	53		"	50.0		106	71-137		4.61	30	
1,1,2,2-Tetrachloroethane	48		"	50.0		95.0	79-129		0.464	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	58		"	50.0		117	58-146		7.65	30	
1,1,2-Trichloroethane	49		"	50.0		97.6	83-123		1.61	30	
1,1-Dichloroethane	51		"	50.0		102	75-130		1.71	30	
1,1-Dichloroethylene	59		"	50.0		118	64-137		5.78	30	
Bromochloromethane	41		"	50.0		82.7	74-129		2.58	30	
1,2,3-Trichloropropane	47		"	50.0		94.5	81-126		2.76	30	
1,2,4-Trichlorobenzene	50		"	50.0		100	80-141		1.07	30	
1,2,4-Trimethylbenzene	46		"	50.0		91.2	84-125		1.30	30	
1,2-Dibromo-3-chloropropane	47		"	50.0		94.7	74-142		8.44	30	
1,2-Dibromoethane	52		"	50.0		103	86-123		0.850	30	
1,2-Dichlorobenzene	51		"	50.0		103	85-122		0.293	30	
1,2-Dichloroethane	52		"	50.0		104	71-133		3.75	30	
1,2-Dichloropropane	46		"	50.0		92.5	81-122		5.17	30	
1,3,5-Trimethylbenzene	59		"	50.0		118	82-126		26.6	30	
1,3-Dichlorobenzene	49		"	50.0		98.4	84-124		0.0203	30	
1,4-Dichlorobenzene	51		"	50.0		102	84-124		2.77	30	
1,4-Dioxane	1700		"	1000		174	10-228		6.21	30	
Cyclohexane	45		"	50.0		90.0	70-130		4.30	30	
2-Butanone	57		"	50.0		114	58-147		4.71	30	
2-Hexanone	43		"	50.0		85.1	70-139		2.07	30	
4-Methyl-2-pentanone	42		"	50.0		84.6	72-132		1.57	30	
Acetone	46		"	50.0		91.7	36-155		9.37	30	
Acrolein	180		"	50.0		351	10-238	High Bias	14.2	30	
Acrylonitrile	52		"	50.0		103	66-141		8.79	30	
Benzene	49		"	50.0		98.3	77-127		7.05	30	
Bromodichloromethane	49		"	50.0		98.7	81-124		2.42	30	
Bromoform	53		"	50.0		106	80-136		1.48	30	
Bromomethane	61		"	50.0		122	32-177		2.64	30	
Carbon disulfide	62		"	50.0		124	10-136		7.49	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51158 - EPA 5035A											
LCS Dup (BA51158-BSD1)							Prepared & Analyzed: 01/26/2015				
Carbon tetrachloride	54		ug/L	50.0		108	66-143		4.24	30	
Chlorobenzene	52		"	50.0		104	86-120		2.11	30	
Chloroethane	60		"	50.0		120	51-142		13.0	30	
Chloroform	52		"	50.0		104	76-131		5.83	30	
Chloromethane	46		"	50.0		92.9	49-132		6.34	30	
cis-1,2-Dichloroethylene	52		"	50.0		105	74-132		4.79	30	
cis-1,3-Dichloropropylene	50		"	50.0		100	81-129		1.11	30	
Dibromochloromethane	54		"	50.0		108	10-200		1.50	30	
Dibromomethane	50		"	50.0		100	83-124		1.73	30	
Dichlorodifluoromethane	55		"	50.0		110	28-158		5.48	30	
Ethyl Benzene	48		"	50.0		95.8	84-125		0.0417	30	
Methylcyclohexane	46		"	50.0		92.2	70-130		0.928	30	
Hexachlorobutadiene	49		"	50.0		97.9	83-133		2.76	30	
Isopropylbenzene	48		"	50.0		96.5	81-127		0.579	30	
Methyl acetate	52		"	50.0		104	41-143		6.77	30	
Methyl tert-butyl ether (MTBE)	54		"	50.0		108	74-131		8.38	30	
Methylene chloride	49		"	50.0		98.2	57-141		7.86	30	
n-Butylbenzene	45		"	50.0		90.4	80-130		0.441	30	
1,2,3-Trichlorobenzene	53		"	50.0		106	81-140		3.36	30	
n-Propylbenzene	46		"	50.0		92.7	74-136		2.65	30	
o-Xylene	47		"	50.0		94.4	83-123		2.76	30	
p- & m- Xylenes	95		"	100		94.6	82-128		0.254	30	
p-Isopropyltoluene	46		"	50.0		93.0	85-125		2.17	30	
sec-Butylbenzene	48		"	50.0		95.5	83-125		0.504	30	
Styrene	50		"	50.0		99.8	86-126		0.220	30	
tert-Butyl alcohol (TBA)	60		"	50.0		119	70-130		13.5	30	
tert-Butylbenzene	49		"	50.0		97.3	80-127		0.536	30	
Tetrachloroethylene	54		"	50.0		109	80-129		4.10	30	
Toluene	48		"	50.0		96.5	85-121		1.04	30	
trans-1,2-Dichloroethylene	51		"	50.0		101	72-132		5.05	30	
trans-1,3-Dichloropropylene	49		"	50.0		97.4	78-132		0.0822	30	
Trichloroethylene	48		"	50.0		95.5	84-123		1.97	30	
Trichlorofluoromethane	63		"	50.0		125	62-140		5.63	30	
Vinyl Chloride	58		"	50.0		116	52-130		3.75	30	
Surrogate: 1,2-Dichloroethane-d4	*50.7*		*"*	*50.0*		*101*	*77-125*				
Surrogate: p-Bromofluorobenzene	*48.9*		*"*	*50.0*		*97.8*	*76-130*				
Surrogate: Toluene-d8	*50.2*		*"*	*50.0*		*100*	*85-120*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51159 - EPA 5035A											
Blank (BA51159-BLK1)									Prepared & Analyzed: 01/27/2015		
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	5.0	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
1,4-Dioxane	ND	100	"								
Cyclohexane	ND	5.0	"								
2-Butanone	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrolein	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon disulfide	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Methylcyclohexane	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl acetate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
n-Butylbenzene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	5.0	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51159 - EPA 5035A											
Blank (BA51159-BLK1)								Prepared & Analyzed: 01/27/2015			
n-Propylbenzene	ND	5.0	ug/kg wet								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butyl alcohol (TBA)	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Surrogate: 1,2-Dichloroethane-d4	*55.2*		*ug/L*	*50.0*		*110*	*77-125*				
Surrogate: p-Bromofluorobenzene	*48.7*		*"*	*50.0*		*97.4*	*76-130*				
Surrogate: Toluene-d8	*50.8*		*"*	*50.0*		*102*	*85-120*				
LCS (BA51159-BS1)								Prepared & Analyzed: 01/27/2015			
1,1,1,2-Tetrachloroethane	54		ug/L	50.0		108	75-129				
1,1,1-Trichloroethane	56		"	50.0		111	71-137				
1,1,2,2-Tetrachloroethane	51		"	50.0		102	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	57		"	50.0		113	58-146				
1,1,2-Trichloroethane	51		"	50.0		101	83-123				
1,1-Dichloroethane	51		"	50.0		102	75-130				
1,1-Dichloroethylene	58		"	50.0		116	64-137				
Bromochloromethane	41		"	50.0		82.5	74-129				
1,2,3-Trichloropropane	50		"	50.0		99.9	81-126				
1,2,4-Trichlorobenzene	49		"	50.0		97.4	80-141				
1,2,4-Trimethylbenzene	46		"	50.0		92.5	84-125				
1,2-Dibromo-3-chloropropane	50		"	50.0		101	74-142				
1,2-Dibromoethane	51		"	50.0		102	86-123				
1,2-Dichlorobenzene	53		"	50.0		106	85-122				
1,2-Dichloroethane	52		"	50.0		105	71-133				
1,2-Dichloropropane	46		"	50.0		91.1	81-122				
1,3,5-Trimethylbenzene	60		"	50.0		121	82-126				
1,3-Dichlorobenzene	51		"	50.0		102	84-124				
1,4-Dichlorobenzene	52		"	50.0		103	84-124				
1,4-Dioxane	1800		"	1000		180	10-228				
Cyclohexane	47		"	50.0		94.1	70-130				
2-Butanone	55		"	50.0		111	58-147				
2-Hexanone	46		"	50.0		92.6	70-139				
4-Methyl-2-pentanone	44		"	50.0		87.3	72-132				
Acetone	45		"	50.0		90.0	36-155				
Acrolein	150		"	50.0		298	10-238	High Bias			
Acrylonitrile	51		"	50.0		101	66-141				
Benzene	53		"	50.0		105	77-127				
Bromodichloromethane	50		"	50.0		99.1	81-124				
Bromoform	57		"	50.0		114	80-136				
Bromomethane	58		"	50.0		116	32-177				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51159 - EPA 5035A											
LCS (BA51159-BS1)								Prepared & Analyzed: 01/27/2015			
Carbon disulfide	59		ug/L	50.0		118	10-136				
Carbon tetrachloride	55		"	50.0		109	66-143				
Chlorobenzene	52		"	50.0		104	86-120				
Chloroethane	61		"	50.0		123	51-142				
Chloroform	54		"	50.0		108	76-131				
Chloromethane	46		"	50.0		93.0	49-132				
cis-1,2-Dichloroethylene	52		"	50.0		105	74-132				
cis-1,3-Dichloropropylene	48		"	50.0		96.5	81-129				
Dibromochloromethane	55		"	50.0		110	10-200				
Dibromomethane	49		"	50.0		97.9	83-124				
Dichlorodifluoromethane	55		"	50.0		110	28-158				
Ethyl Benzene	50		"	50.0		99.4	84-125				
Methylcyclohexane	48		"	50.0		95.2	70-130				
Hexachlorobutadiene	48		"	50.0		97.0	83-133				
Isopropylbenzene	48		"	50.0		96.9	81-127				
Methyl acetate	54		"	50.0		107	41-143				
Methyl tert-butyl ether (MTBE)	54		"	50.0		107	74-131				
Methylene chloride	71		"	50.0		143	57-141	High Bias			
n-Butylbenzene	45		"	50.0		90.4	80-130				
1,2,3-Trichlorobenzene	50		"	50.0		101	81-140				
n-Propylbenzene	47		"	50.0		93.8	74-136				
o-Xylene	49		"	50.0		98.3	83-123				
p- & m- Xylenes	96		"	100		96.3	82-128				
p-Isopropyltoluene	48		"	50.0		95.3	85-125				
sec-Butylbenzene	49		"	50.0		98.6	83-125				
Styrene	52		"	50.0		105	86-126				
tert-Butyl alcohol (TBA)	62		"	50.0		124	70-130				
tert-Butylbenzene	51		"	50.0		102	80-127				
Tetrachloroethylene	56		"	50.0		112	80-129				
Toluene	49		"	50.0		97.6	85-121				
trans-1,2-Dichloroethylene	52		"	50.0		104	72-132				
trans-1,3-Dichloropropylene	45		"	50.0		90.3	78-132				
Trichloroethylene	49		"	50.0		98.9	84-123				
Trichlorofluoromethane	61		"	50.0		122	62-140				
Vinyl Chloride	53		"	50.0		106	52-130				
Surrogate: 1,2-Dichloroethane-d4	*50.7*		*"*	*50.0*		*101*	*77-125*				
Surrogate: p-Bromofluorobenzene	*49.3*		*"*	*50.0*		*98.6*	*76-130*				
Surrogate: Toluene-d8	*48.3*		*"*	*50.0*		*96.6*	*85-120*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51159 - EPA 5035A											
LCS Dup (BA51159-BSD1)								Prepared & Analyzed: 01/27/2015			
1,1,1,2-Tetrachloroethane	50		ug/L	50.0		101	75-129		6.93	30	
1,1,1-Trichloroethane	54		"	50.0		109	71-137		2.26	30	
1,1,2,2-Tetrachloroethane	49		"	50.0		97.7	79-129		4.46	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	56		"	50.0		113	58-146		0.495	30	
1,1,2-Trichloroethane	49		"	50.0		98.0	83-123		3.27	30	
1,1-Dichloroethane	52		"	50.0		104	75-130		1.15	30	
1,1-Dichloroethylene	59		"	50.0		119	64-137		2.20	30	
Bromochloromethane	41		"	50.0		81.7	74-129		1.02	30	
1,2,3-Trichloropropane	49		"	50.0		98.2	81-126		1.80	30	
1,2,4-Trichlorobenzene	48		"	50.0		96.6	80-141		0.824	30	
1,2,4-Trimethylbenzene	47		"	50.0		93.1	84-125		0.690	30	
1,2-Dibromo-3-chloropropane	49		"	50.0		97.9	74-142		2.66	30	
1,2-Dibromoethane	52		"	50.0		103	86-123		0.915	30	
1,2-Dichlorobenzene	52		"	50.0		104	85-122		1.62	30	
1,2-Dichloroethane	52		"	50.0		105	71-133		0.134	30	
1,2-Dichloropropane	45		"	50.0		89.8	81-122		1.53	30	
1,3,5-Trimethylbenzene	47		"	50.0		93.9	82-126		25.0	30	
1,3-Dichlorobenzene	50		"	50.0		100	84-124		2.00	30	
1,4-Dichlorobenzene	50		"	50.0		101	84-124		2.37	30	
1,4-Dioxane	1800		"	1000		181	10-228		0.620	30	
Cyclohexane	46		"	50.0		92.2	70-130		2.02	30	
2-Butanone	56		"	50.0		113	58-147		2.00	30	
2-Hexanone	44		"	50.0		87.8	70-139		5.25	30	
4-Methyl-2-pentanone	42		"	50.0		84.6	72-132		3.19	30	
Acetone	47		"	50.0		93.4	36-155		3.71	30	
Acrolein	170		"	50.0		340	10-238	High Bias	12.9	30	
Acrylonitrile	55		"	50.0		111	66-141		8.95	30	
Benzene	53		"	50.0		106	77-127		0.738	30	
Bromodichloromethane	49		"	50.0		97.0	81-124		2.12	30	
Bromoform	54		"	50.0		107	80-136		6.14	30	
Bromomethane	61		"	50.0		122	32-177		4.58	30	
Carbon disulfide	62		"	50.0		125	10-136		5.77	30	
Carbon tetrachloride	55		"	50.0		111	66-143		1.24	30	
Chlorobenzene	51		"	50.0		102	86-120		1.77	30	
Chloroethane	62		"	50.0		124	51-142		0.975	30	
Chloroform	53		"	50.0		105	76-131		2.83	30	
Chloromethane	48		"	50.0		96.0	49-132		3.22	30	
cis-1,2-Dichloroethylene	54		"	50.0		108	74-132		3.06	30	
cis-1,3-Dichloropropylene	46		"	50.0		92.6	81-129		4.19	30	
Dibromochloromethane	54		"	50.0		107	10-200		2.59	30	
Dibromomethane	50		"	50.0		99.5	83-124		1.68	30	
Dichlorodifluoromethane	55		"	50.0		110	28-158		0.309	30	
Ethyl Benzene	47		"	50.0		93.9	84-125		5.71	30	
Methylcyclohexane	47		"	50.0		93.2	70-130		2.12	30	
Hexachlorobutadiene	48		"	50.0		96.6	83-133		0.351	30	
Isopropylbenzene	49		"	50.0		97.4	81-127		0.515	30	
Methyl acetate	50		"	50.0		101	41-143		6.12	30	
Methyl tert-butyl ether (MTBE)	55		"	50.0		110	74-131		2.76	30	
Methylene chloride	64		"	50.0		127	57-141		11.6	30	
n-Butylbenzene	44		"	50.0		88.8	80-130		1.79	30	
1,2,3-Trichlorobenzene	48		"	50.0		95.6	81-140		5.20	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51159 - EPA 5035A											
LCS Dup (BA51159-BSD1)								Prepared & Analyzed: 01/27/2015			
n-Propylbenzene	46		ug/L	50.0		92.5	74-136		1.42	30	
o-Xylene	48		"	50.0		96.6	83-123		1.74	30	
p- & m- Xylenes	94		"	100		93.6	82-128		2.86	30	
p-Isopropyltoluene	48		"	50.0		95.5	85-125		0.168	30	
sec-Butylbenzene	48		"	50.0		95.9	83-125		2.76	30	
Styrene	48		"	50.0		96.6	86-126		7.89	30	
tert-Butyl alcohol (TBA)	62		"	50.0		123	70-130		0.502	30	
tert-Butylbenzene	49		"	50.0		98.8	80-127		2.85	30	
Tetrachloroethylene	56		"	50.0		112	80-129		0.428	30	
Toluene	49		"	50.0		98.1	85-121		0.491	30	
trans-1,2-Dichloroethylene	51		"	50.0		101	72-132		2.69	30	
trans-1,3-Dichloropropylene	46		"	50.0		91.1	78-132		0.816	30	
Trichloroethylene	49		"	50.0		97.9	84-123		1.08	30	
Trichlorofluoromethane	63		"	50.0		127	62-140		3.72	30	
Vinyl Chloride	56		"	50.0		113	52-130		6.13	30	
Surrogate: 1,2-Dichloroethane-d4	*52.2*		*"*	*50.0*		*104*	*77-125*				
Surrogate: p-Bromofluorobenzene	*50.2*		*"*	*50.0*		*100*	*76-130*				
Surrogate: Toluene-d8	*48.3*		*"*	*50.0*		*96.7*	*85-120*				
Batch BA51172 - EPA 5030B											
Blank (BA51172-BLK1)								Prepared & Analyzed: 01/28/2015			
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L								
1,1,1-Trichloroethane	ND	0.50	"								
1,1,2,2-Tetrachloroethane	ND	0.50	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	"								
1,1,2-Trichloroethane	ND	0.50	"								
1,1-Dichloroethane	ND	0.50	"								
1,1-Dichloroethylene	ND	0.50	"								
Bromochloromethane	ND	0.50	"								
1,2,3-Trichloropropane	ND	0.50	"								
1,2,4-Trichlorobenzene	0.45	0.50	"								
1,2,4-Trimethylbenzene	ND	0.50	"								
1,2-Dibromo-3-chloropropane	ND	0.50	"								
1,2-Dibromoethane	ND	0.50	"								
1,2-Dichlorobenzene	ND	0.50	"								
1,2-Dichloroethane	ND	0.50	"								
1,2-Dichloropropane	ND	0.50	"								
1,3,5-Trimethylbenzene	ND	0.50	"								
1,3-Dichlorobenzene	ND	0.50	"								
1,4-Dichlorobenzene	ND	0.50	"								
1,4-Dioxane	ND	80	"								
Cyclohexane	ND	0.50	"								
2-Butanone	ND	0.50	"								
2-Hexanone	ND	0.50	"								
4-Methyl-2-pentanone	ND	0.50	"								
Acetone	2.2	2.0	"								
Acrolein	ND	0.50	"								
Acrylonitrile	ND	0.50	"								
Benzene	ND	0.50	"								
Bromodichloromethane	ND	0.50	"								
Bromoform	ND	0.50	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51172 - EPA 5030B											
Blank (BA51172-BLK1)									Prepared & Analyzed: 01/28/2015		
Bromomethane	ND	0.50	ug/L								
Carbon disulfide	ND	0.50	"								
Carbon tetrachloride	ND	0.50	"								
Chlorobenzene	ND	0.50	"								
Chloroethane	ND	0.50	"								
Chloroform	ND	0.50	"								
Chloromethane	ND	0.50	"								
cis-1,2-Dichloroethylene	ND	0.50	"								
cis-1,3-Dichloropropylene	ND	0.50	"								
Dibromochloromethane	ND	0.50	"								
Dibromomethane	ND	0.50	"								
Dichlorodifluoromethane	ND	0.50	"								
Ethyl Benzene	ND	0.50	"								
Methylcyclohexane	ND	0.50	"								
Hexachlorobutadiene	0.47	0.50	"								
Isopropylbenzene	ND	0.50	"								
Methyl acetate	ND	0.50	"								
Methyl tert-butyl ether (MTBE)	ND	0.50	"								
Methylene chloride	ND	2.0	"								
n-Butylbenzene	0.28	0.50	"								
n-Propylbenzene	ND	0.50	"								
o-Xylene	ND	0.50	"								
1,2,3-Trichlorobenzene	0.62	0.50	"								
p- & m- Xylenes	ND	1.0	"								
p-Isopropyltoluene	ND	0.50	"								
sec-Butylbenzene	ND	0.50	"								
Styrene	ND	0.50	"								
tert-Butyl alcohol (TBA)	ND	1.0	"								
tert-Butylbenzene	ND	0.50	"								
Tetrachloroethylene	ND	0.50	"								
Toluene	ND	0.50	"								
trans-1,2-Dichloroethylene	ND	0.50	"								
trans-1,3-Dichloropropylene	ND	0.50	"								
Trichloroethylene	ND	0.50	"								
Trichlorofluoromethane	ND	0.50	"								
Vinyl Chloride	ND	0.50	"								
Xylenes, Total	ND	1.5	"								
Surrogate: 1,2-Dichloroethane-d4	*10.2*		*"*	*10.0*		*102*	*69-130*				
Surrogate: p-Bromofluorobenzene	*10.2*		*"*	*10.0*		*102*	*79-122*				
Surrogate: Toluene-d8	*9.49*		*"*	*10.0*		*94.9*	*81-117*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51172 - EPA 5030B											
LCS (BA51172-BS1)								Prepared & Analyzed: 01/28/2015			
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		103	82-126				
1,1,1-Trichloroethane	11		"	10.0		114	78-136				
1,1,2,2-Tetrachloroethane	9.0		"	10.0		90.3	76-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10		"	10.0		102	54-165				
1,1,2-Trichloroethane	8.9		"	10.0		89.2	82-123				
1,1-Dichloroethane	11		"	10.0		114	82-129				
1,1-Dichloroethylene	11		"	10.0		115	68-138				
Bromochloromethane	11		"	10.0		113	77-128				
1,2,3-Trichloropropane	9.7		"	10.0		96.8	77-128				
1,2,4-Trichlorobenzene	9.9		"	10.0		98.8	76-137				
1,2,4-Trimethylbenzene	9.9		"	10.0		99.2	82-132				
1,2-Dibromo-3-chloropropane	8.3		"	10.0		83.1	45-147				
1,2-Dibromoethane	9.7		"	10.0		97.2	83-124				
1,2-Dichlorobenzene	9.8		"	10.0		98.5	79-123				
1,2-Dichloroethane	11		"	10.0		109	73-132				
1,2-Dichloropropane	10		"	10.0		102	78-126				
1,3,5-Trimethylbenzene	9.9		"	10.0		98.7	80-131				
1,3-Dichlorobenzene	10		"	10.0		99.6	86-122				
1,4-Dichlorobenzene	9.9		"	10.0		99.1	85-124				
1,4-Dioxane	650		"	200		325	10-349				
Cyclohexane	11		"	10.0		106	63-149				
2-Butanone	11		"	10.0		114	49-152				
2-Hexanone	9.3		"	10.0		93.4	51-146				
4-Methyl-2-pentanone	9.9		"	10.0		99.3	57-145				
Acetone	8.6		"	10.0		85.6	14-150				
Acrolein	8.2		"	10.0		82.3	10-153				
Acrylonitrile	8.9		"	10.0		88.7	51-150				
Benzene	11		"	10.0		110	85-126				
Bromodichloromethane	10		"	10.0		104	79-128				
Bromoform	11		"	10.0		107	78-133				
Bromomethane	9.9		"	10.0		98.6	43-168				
Carbon disulfide	13		"	10.0		126	68-146				
Carbon tetrachloride	12		"	10.0		116	77-141				
Chlorobenzene	10		"	10.0		101	88-120				
Chloroethane	9.5		"	10.0		94.7	65-136				
Chloroform	11		"	10.0		112	82-128				
Chloromethane	10		"	10.0		103	43-155				
cis-1,2-Dichloroethylene	12		"	10.0		117	83-129				
cis-1,3-Dichloropropylene	12		"	10.0		117	80-131				
Dibromochloromethane	10		"	10.0		105	80-130				
Dibromomethane	9.9		"	10.0		99.3	72-134				
Dichlorodifluoromethane	10		"	10.0		101	44-144				
Ethyl Benzene	10		"	10.0		101	80-131				
Methylcyclohexane	10		"	10.0		101	72-143				
Hexachlorobutadiene	9.9		"	10.0		98.9	67-146				
Isopropylbenzene	10		"	10.0		101	76-140				
Methyl acetate	13		"	10.0		129	51-139				
Methyl tert-butyl ether (MTBE)	10		"	10.0		104	76-135				
Methylene chloride	11		"	10.0		114	55-137				
n-Butylbenzene	10		"	10.0		102	79-132				
n-Propylbenzene	10		"	10.0		100	78-133				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51172 - EPA 5030B											
LCS (BA51172-BS1)								Prepared & Analyzed: 01/28/2015			
o-Xylene	10		ug/L	10.0		102	78-130				
1,2,3-Trichlorobenzene	9.6		"	10.0		95.8	76-136				
p- & m- Xylenes	21		"	20.0		103	77-133				
p-Isopropyltoluene	10		"	10.0		102	81-136				
sec-Butylbenzene	10		"	10.0		102	79-137				
Styrene	11		"	10.0		106	67-132				
tert-Butyl alcohol (TBA)	9.2		"	10.0		92.2	25-162				
tert-Butylbenzene	10		"	10.0		102	77-138				
Tetrachloroethylene	10		"	10.0		102	82-131				
Toluene	10		"	10.0		100	80-127				
trans-1,2-Dichloroethylene	12		"	10.0		117	80-132				
trans-1,3-Dichloropropylene	11		"	10.0		110	78-131				
Trichloroethylene	10		"	10.0		103	82-128				
Trichlorofluoromethane	10		"	10.0		102	67-139				
Vinyl Chloride	10		"	10.0		104	58-145				
Surrogate: 1,2-Dichloroethane-d4	*9.84*		*"*	*10.0*		*98.4*	*69-130*				
Surrogate: p-Bromofluorobenzene	*9.78*		*"*	*10.0*		*97.8*	*79-122*				
Surrogate: Toluene-d8	*9.59*		*"*	*10.0*		*95.9*	*81-117*				
LCS Dup (BA51172-BSD1)								Prepared & Analyzed: 01/28/2015			
1,1,1,2-Tetrachloroethane	10		ug/L	10.0		104	82-126		0.870	30	
1,1,1-Trichloroethane	12		"	10.0		115	78-136		0.960	30	
1,1,2,2-Tetrachloroethane	8.9		"	10.0		89.0	76-129		1.45	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	10		"	10.0		102	54-165		0.294	30	
1,1,2-Trichloroethane	9.1		"	10.0		90.7	82-123		1.67	30	
1,1-Dichloroethane	11		"	10.0		115	82-129		0.436	30	
1,1-Dichloroethylene	12		"	10.0		115	68-138		0.261	30	
Bromochloromethane	11		"	10.0		112	77-128		0.801	30	
1,2,3-Trichloropropane	9.6		"	10.0		95.9	77-128		0.934	30	
1,2,4-Trichlorobenzene	10		"	10.0		100	76-137		1.31	30	
1,2,4-Trimethylbenzene	10		"	10.0		100	82-132		0.903	30	
1,2-Dibromo-3-chloropropane	11		"	10.0		110	45-147		27.4	30	
1,2-Dibromoethane	9.8		"	10.0		97.8	83-124		0.615	30	
1,2-Dichlorobenzene	9.8		"	10.0		98.4	79-123		0.102	30	
1,2-Dichloroethane	11		"	10.0		110	73-132		0.549	30	
1,2-Dichloropropane	10		"	10.0		104	78-126		2.14	30	
1,3,5-Trimethylbenzene	10		"	10.0		101	80-131		2.20	30	
1,3-Dichlorobenzene	10		"	10.0		102	86-122		2.28	30	
1,4-Dichlorobenzene	10		"	10.0		101	85-124		1.50	30	
1,4-Dioxane	640		"	200		321	10-349		1.30	30	
Cyclohexane	10		"	10.0		104	63-149		2.18	30	
2-Butanone	12		"	10.0		119	49-152		4.63	30	
2-Hexanone	10		"	10.0		100	51-146		6.83	30	
4-Methyl-2-pentanone	10		"	10.0		100	57-145		0.702	30	
Acetone	8.5		"	10.0		84.9	14-150		0.821	30	
Acrolein	8.0		"	10.0		80.3	10-153		2.46	30	
Acrylonitrile	10		"	10.0		99.7	51-150		11.7	30	
Benzene	11		"	10.0		111	85-126		0.362	30	
Bromodichloromethane	11		"	10.0		106	79-128		1.62	30	
Bromoform	11		"	10.0		111	78-133		3.76	30	
Bromomethane	9.9		"	10.0		98.7	43-168		0.101	30	
Carbon disulfide	12		"	10.0		124	68-146		0.961	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51172 - EPA 5030B											
LCS Dup (BA51172-BSD1)							Prepared & Analyzed: 01/28/2015				
Carbon tetrachloride	12		ug/L	10.0		117	77-141		1.03	30	
Chlorobenzene	10		"	10.0		104	88-120		3.32	30	
Chloroethane	9.3		"	10.0		93.3	65-136		1.49	30	
Chloroform	11		"	10.0		110	82-128		1.80	30	
Chloromethane	10		"	10.0		102	43-155		0.683	30	
cis-1,2-Dichloroethylene	12		"	10.0		119	83-129		1.19	30	
cis-1,3-Dichloropropylene	12		"	10.0		118	80-131		0.425	30	
Dibromochloromethane	11		"	10.0		106	80-130		1.42	30	
Dibromomethane	10		"	10.0		102	72-134		2.29	30	
Dichlorodifluoromethane	10		"	10.0		102	44-144		0.394	30	
Ethyl Benzene	10		"	10.0		102	80-131		1.08	30	
Methylcyclohexane	10		"	10.0		102	72-143		1.28	30	
Hexachlorobutadiene	10		"	10.0		101	67-146		2.10	30	
Isopropylbenzene	10		"	10.0		103	76-140		2.07	30	
Methyl acetate	13		"	10.0		134	51-139		4.11	30	
Methyl tert-butyl ether (MTBE)	10		"	10.0		104	76-135		0.193	30	
Methylene chloride	11		"	10.0		115	55-137		0.175	30	
n-Butylbenzene	10		"	10.0		103	79-132		0.585	30	
n-Propylbenzene	10		"	10.0		103	78-133		2.26	30	
o-Xylene	10		"	10.0		104	78-130		2.63	30	
1,2,3-Trichlorobenzene	9.7		"	10.0		96.6	76-136		0.832	30	
p- & m- Xylenes	21		"	20.0		104	77-133		1.21	30	
p-Isopropyltoluene	10		"	10.0		103	81-136		0.684	30	
sec-Butylbenzene	10		"	10.0		103	79-137		1.56	30	
Styrene	11		"	10.0		106	67-132		0.661	30	
tert-Butyl alcohol (TBA)	9.2		"	10.0		92.4	25-162		0.217	30	
tert-Butylbenzene	10		"	10.0		104	77-138		1.85	30	
Tetrachloroethylene	10		"	10.0		104	82-131		1.55	30	
Toluene	10		"	10.0		101	80-127		1.29	30	
trans-1,2-Dichloroethylene	12		"	10.0		117	80-132		0.599	30	
trans-1,3-Dichloropropylene	11		"	10.0		111	78-131		0.993	30	
Trichloroethylene	11		"	10.0		106	82-128		2.11	30	
Trichlorofluoromethane	10		"	10.0		102	67-139		0.293	30	
Vinyl Chloride	10		"	10.0		102	58-145		1.17	30	
Surrogate: 1,2-Dichloroethane-d4	*9.53*		*"*	*10.0*		*95.3*	*69-130*				
Surrogate: p-Bromofluorobenzene	*9.92*		*"*	*10.0*		*99.2*	*79-122*				
Surrogate: Toluene-d8	*9.70*		*"*	*10.0*		*97.0*	*81-117*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51204 - EPA 5035A											
Blank (BA51204-BLK1)									Prepared & Analyzed: 01/28/2015		
1,1,1,2-Tetrachloroethane	ND	5.0	ug/kg wet								
1,1,1-Trichloroethane	ND	5.0	"								
1,1,2,2-Tetrachloroethane	ND	5.0	"								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"								
1,1,2-Trichloroethane	ND	5.0	"								
1,1-Dichloroethane	ND	5.0	"								
1,1-Dichloroethylene	ND	5.0	"								
Bromochloromethane	ND	5.0	"								
1,2,3-Trichloropropane	ND	5.0	"								
1,2,4-Trichlorobenzene	ND	5.0	"								
1,2,4-Trimethylbenzene	ND	5.0	"								
1,2-Dibromo-3-chloropropane	ND	5.0	"								
1,2-Dibromoethane	ND	5.0	"								
1,2-Dichlorobenzene	ND	5.0	"								
1,2-Dichloroethane	ND	5.0	"								
1,2-Dichloropropane	ND	5.0	"								
1,3,5-Trimethylbenzene	ND	5.0	"								
1,3-Dichlorobenzene	ND	5.0	"								
1,4-Dichlorobenzene	ND	5.0	"								
1,4-Dioxane	ND	100	"								
Cyclohexane	ND	5.0	"								
2-Butanone	ND	5.0	"								
2-Hexanone	ND	5.0	"								
4-Methyl-2-pentanone	ND	5.0	"								
Acetone	ND	10	"								
Acrolein	ND	10	"								
Acrylonitrile	ND	5.0	"								
Benzene	ND	5.0	"								
Bromodichloromethane	ND	5.0	"								
Bromoform	ND	5.0	"								
Bromomethane	ND	5.0	"								
Carbon disulfide	ND	5.0	"								
Carbon tetrachloride	ND	5.0	"								
Chlorobenzene	ND	5.0	"								
Chloroethane	ND	5.0	"								
Chloroform	ND	5.0	"								
Chloromethane	ND	5.0	"								
cis-1,2-Dichloroethylene	ND	5.0	"								
cis-1,3-Dichloropropylene	ND	5.0	"								
Dibromochloromethane	ND	5.0	"								
Dibromomethane	ND	5.0	"								
Dichlorodifluoromethane	ND	5.0	"								
Ethyl Benzene	ND	5.0	"								
Methylcyclohexane	ND	5.0	"								
Hexachlorobutadiene	ND	5.0	"								
Isopropylbenzene	ND	5.0	"								
Methyl acetate	ND	5.0	"								
Methyl tert-butyl ether (MTBE)	ND	5.0	"								
Methylene chloride	ND	10	"								
n-Butylbenzene	ND	5.0	"								
1,2,3-Trichlorobenzene	ND	5.0	"								

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51204 - EPA 5035A											
Blank (BA51204-BLK1)								Prepared & Analyzed: 01/28/2015			
n-Propylbenzene	ND	5.0	ug/kg wet								
o-Xylene	ND	5.0	"								
p- & m- Xylenes	ND	10	"								
p-Isopropyltoluene	ND	5.0	"								
sec-Butylbenzene	ND	5.0	"								
Styrene	ND	5.0	"								
tert-Butyl alcohol (TBA)	ND	5.0	"								
tert-Butylbenzene	ND	5.0	"								
Tetrachloroethylene	ND	5.0	"								
Toluene	ND	5.0	"								
trans-1,2-Dichloroethylene	ND	5.0	"								
trans-1,3-Dichloropropylene	ND	5.0	"								
Trichloroethylene	ND	5.0	"								
Trichlorofluoromethane	ND	5.0	"								
Vinyl Chloride	ND	5.0	"								
Xylenes, Total	ND	15	"								
Surrogate: 1,2-Dichloroethane-d4	*54.3*		*ug/L*	*50.0*		*109*	*77-125*				
Surrogate: p-Bromofluorobenzene	*49.4*		*"*	*50.0*		*98.7*	*76-130*				
Surrogate: Toluene-d8	*49.8*		*"*	*50.0*		*99.6*	*85-120*				
LCS (BA51204-BS1)								Prepared & Analyzed: 01/28/2015			
1,1,1,2-Tetrachloroethane	49		ug/L	50.0		98.8	75-129				
1,1,1-Trichloroethane	51		"	50.0		102	71-137				
1,1,2,2-Tetrachloroethane	48		"	50.0		95.1	79-129				
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	53		"	50.0		105	58-146				
1,1,2-Trichloroethane	47		"	50.0		93.6	83-123				
1,1-Dichloroethane	49		"	50.0		97.8	75-130				
1,1-Dichloroethylene	55		"	50.0		111	64-137				
Bromochloromethane	40		"	50.0		79.5	74-129				
1,2,3-Trichloropropane	48		"	50.0		95.3	81-126				
1,2,4-Trichlorobenzene	47		"	50.0		93.0	80-141				
1,2,4-Trimethylbenzene	45		"	50.0		90.9	84-125				
1,2-Dibromo-3-chloropropane	47		"	50.0		94.3	74-142				
1,2-Dibromoethane	50		"	50.0		99.6	86-123				
1,2-Dichlorobenzene	50		"	50.0		100	85-122				
1,2-Dichloroethane	49		"	50.0		97.1	71-133				
1,2-Dichloropropane	43		"	50.0		86.6	81-122				
1,3,5-Trimethylbenzene	46		"	50.0		91.2	82-126				
1,3-Dichlorobenzene	49		"	50.0		98.1	84-124				
1,4-Dichlorobenzene	50		"	50.0		99.3	84-124				
1,4-Dioxane	1800		"	1000		177	10-228				
Cyclohexane	42		"	50.0		85.0	70-130				
2-Butanone	86		"	50.0		172	58-147	High Bias			
2-Hexanone	55		"	50.0		110	70-139				
4-Methyl-2-pentanone	41		"	50.0		82.1	72-132				
Acetone	100		"	50.0		202	36-155	High Bias			
Acrolein	170		"	50.0		346	10-238	High Bias			
Acrylonitrile	49		"	50.0		98.6	66-141				
Benzene	47		"	50.0		93.8	77-127				
Bromodichloromethane	48		"	50.0		96.2	81-124				
Bromoform	53		"	50.0		105	80-136				
Bromomethane	57		"	50.0		114	32-177				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51204 - EPA 5035A											
LCS (BA51204-BS1)								Prepared & Analyzed: 01/28/2015			
Carbon disulfide	58		ug/L	50.0		117	10-136				
Carbon tetrachloride	52		"	50.0		104	66-143				
Chlorobenzene	49		"	50.0		97.6	86-120				
Chloroethane	60		"	50.0		120	51-142				
Chloroform	49		"	50.0		98.5	76-131				
Chloromethane	44		"	50.0		87.5	49-132				
cis-1,2-Dichloroethylene	50		"	50.0		99.5	74-132				
cis-1,3-Dichloropropylene	50		"	50.0		100	81-129				
Dibromochloromethane	51		"	50.0		103	10-200				
Dibromomethane	47		"	50.0		94.8	83-124				
Dichlorodifluoromethane	50		"	50.0		99.5	28-158				
Ethyl Benzene	46		"	50.0		91.2	84-125				
Methylcyclohexane	44		"	50.0		87.1	70-130				
Hexachlorobutadiene	37		"	50.0		73.3	83-133	Low Bias			
Isopropylbenzene	48		"	50.0		95.1	81-127				
Methyl acetate	48		"	50.0		95.6	41-143				
Methyl tert-butyl ether (MTBE)	51		"	50.0		102	74-131				
Methylene chloride	62		"	50.0		124	57-141				
n-Butylbenzene	41		"	50.0		81.7	80-130				
1,2,3-Trichlorobenzene	47		"	50.0		94.3	81-140				
n-Propylbenzene	44		"	50.0		88.9	74-136				
o-Xylene	47		"	50.0		93.2	83-123				
p- & m- Xylenes	90		"	100		90.1	82-128				
p-Isopropyltoluene	44		"	50.0		88.9	85-125				
sec-Butylbenzene	44		"	50.0		87.8	83-125				
Styrene	50		"	50.0		99.4	86-126				
tert-Butyl alcohol (TBA)	58		"	50.0		117	70-130				
tert-Butylbenzene	46		"	50.0		91.7	80-127				
Tetrachloroethylene	52		"	50.0		104	80-129				
Toluene	45		"	50.0		90.6	85-121				
trans-1,2-Dichloroethylene	47		"	50.0		94.9	72-132				
trans-1,3-Dichloropropylene	48		"	50.0		95.2	78-132				
Trichloroethylene	48		"	50.0		95.3	84-123				
Trichlorofluoromethane	59		"	50.0		118	62-140				
Vinyl Chloride	50		"	50.0		101	52-130				
Surrogate: 1,2-Dichloroethane-d4	*51.9*		*"*	*50.0*		*104*	*77-125*				
Surrogate: p-Bromofluorobenzene	*50.7*		*"*	*50.0*		*101*	*76-130*				
Surrogate: Toluene-d8	*48.5*		*"*	*50.0*		*97.0*	*85-120*				

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51204 - EPA 5035A											
LCS Dup (BA51204-BSD1)							Prepared & Analyzed: 01/28/2015				
1,1,1,2-Tetrachloroethane	53		ug/L	50.0		105	75-129		6.42	30	
1,1,1-Trichloroethane	54		"	50.0		109	71-137		6.03	30	
1,1,2,2-Tetrachloroethane	51		"	50.0		103	79-129		7.76	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	58		"	50.0		116	58-146		9.64	30	
1,1,2-Trichloroethane	50		"	50.0		101	83-123		7.45	30	
1,1-Dichloroethane	52		"	50.0		103	75-130		5.53	30	
1,1-Dichloroethylene	59		"	50.0		119	64-137		7.23	30	
Bromochloromethane	42		"	50.0		85.0	74-129		6.74	30	
1,2,3-Trichloropropane	52		"	50.0		104	81-126		8.88	30	
1,2,4-Trichlorobenzene	53		"	50.0		105	80-141		12.2	30	
1,2,4-Trimethylbenzene	51		"	50.0		103	84-125		12.3	30	
1,2-Dibromo-3-chloropropane	51		"	50.0		101	74-142		7.38	30	
1,2-Dibromoethane	52		"	50.0		103	86-123		3.74	30	
1,2-Dichlorobenzene	54		"	50.0		108	85-122		7.88	30	
1,2-Dichloroethane	52		"	50.0		103	71-133		6.34	30	
1,2-Dichloropropane	46		"	50.0		91.7	81-122		5.72	30	
1,3,5-Trimethylbenzene	53		"	50.0		106	82-126		14.6	30	
1,3-Dichlorobenzene	56		"	50.0		111	84-124		12.5	30	
1,4-Dichlorobenzene	55		"	50.0		110	84-124		9.77	30	
1,4-Dioxane	1700		"	1000		174	10-228		1.41	30	
Cyclohexane	45		"	50.0		89.3	70-130		5.03	30	
2-Butanone	55		"	50.0		110	58-147		43.7	30	Non-dir.
2-Hexanone	43		"	50.0		85.4	70-139		25.1	30	
4-Methyl-2-pentanone	42		"	50.0		84.2	72-132		2.50	30	
Acetone	49		"	50.0		97.3	36-155		70.2	30	Non-dir.
Acrolein	170		"	50.0		341	10-238	High Bias	1.47	30	
Acrylonitrile	46		"	50.0		91.2	66-141		7.80	30	
Benzene	52		"	50.0		104	77-127		9.88	30	
Bromodichloromethane	51		"	50.0		101	81-124		5.07	30	
Bromoform	58		"	50.0		115	80-136		9.03	30	
Bromomethane	63		"	50.0		125	32-177		8.90	30	
Carbon disulfide	62		"	50.0		123	10-136		5.23	30	
Carbon tetrachloride	56		"	50.0		111	66-143		7.28	30	
Chlorobenzene	53		"	50.0		106	86-120		8.40	30	
Chloroethane	64		"	50.0		127	51-142		5.55	30	
Chloroform	54		"	50.0		108	76-131		9.46	30	
Chloromethane	48		"	50.0		96.5	49-132		9.80	30	
cis-1,2-Dichloroethylene	55		"	50.0		110	74-132		9.57	30	
cis-1,3-Dichloropropylene	52		"	50.0		104	81-129		3.27	30	
Dibromochloromethane	54		"	50.0		109	10-200		5.72	30	
Dibromomethane	51		"	50.0		101	83-124		6.55	30	
Dichlorodifluoromethane	54		"	50.0		107	28-158		7.32	30	
Ethyl Benzene	49		"	50.0		98.3	84-125		7.45	30	
Methylcyclohexane	47		"	50.0		93.2	70-130		6.86	30	
Hexachlorobutadiene	51		"	50.0		102	83-133		33.1	30	Non-dir.
Isopropylbenzene	55		"	50.0		109	81-127		13.7	30	
Methyl acetate	51		"	50.0		102	41-143		6.81	30	
Methyl tert-butyl ether (MTBE)	55		"	50.0		111	74-131		8.20	30	
Methylene chloride	66		"	50.0		133	57-141		7.27	30	
n-Butylbenzene	48		"	50.0		96.7	80-130		16.8	30	
1,2,3-Trichlorobenzene	53		"	50.0		105	81-140		10.9	30	

Volatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51204 - EPA 5035A											
LCS Dup (BA51204-BSD1)								Prepared & Analyzed: 01/28/2015			
n-Propylbenzene	52		ug/L	50.0		103	74-136		15.2	30	
o-Xylene	49		"	50.0		97.2	83-123		4.22	30	
p- & m- Xylenes	98		"	100		98.3	82-128		8.75	30	
p-Isopropyltoluene	53		"	50.0		107	85-125		18.1	30	
sec-Butylbenzene	53		"	50.0		105	83-125		18.2	30	
Styrene	51		"	50.0		103	86-126		3.25	30	
tert-Butyl alcohol (TBA)	54		"	50.0		108	70-130		7.75	30	
tert-Butylbenzene	55		"	50.0		109	80-127		17.4	30	
Tetrachloroethylene	53		"	50.0		107	80-129		2.52	30	
Toluene	50		"	50.0		101	85-121		10.7	30	
trans-1,2-Dichloroethylene	52		"	50.0		104	72-132		9.15	30	
trans-1,3-Dichloropropylene	51		"	50.0		102	78-132		7.01	30	
Trichloroethylene	51		"	50.0		101	84-123		5.89	30	
Trichlorofluoromethane	65		"	50.0		130	62-140		9.40	30	
Vinyl Chloride	56		"	50.0		112	52-130		10.8	30	
Surrogate: 1,2-Dichloroethane-d4	*52.4*		*"*	*50.0*		*105*	*77-125*				
Surrogate: p-Bromofluorobenzene	*54.4*		*"*	*50.0*		*109*	*76-130*				
Surrogate: Toluene-d8	*49.2*		*"*	*50.0*		*98.4*	*85-120*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51072 - EPA 3550C											
Blank (BA51072-BLK1)											
Prepared: 01/23/2015 Analyzed: 01/26/2015											
Acenaphthene	ND	41.7	ug/kg wet								
Acenaphthylene	ND	41.7	"								
Acetophenone	ND	41.7	"								
Aniline	ND	167	"								
Anthracene	ND	41.7	"								
Atrazine	ND	41.7	"								
Benzaldehyde	ND	41.7	"								
Benzidine	ND	167	"								
Benzo(a)anthracene	ND	41.7	"								
Benzo(a)pyrene	ND	41.7	"								
Benzo(b)fluoranthene	ND	41.7	"								
Benzo(g,h,i)perylene	ND	41.7	"								
Benzoic acid	ND	41.7	"								
Benzo(k)fluoranthene	ND	41.7	"								
Benzyl alcohol	ND	41.7	"								
Benzyl butyl phthalate	ND	41.7	"								
1,1'-Biphenyl	ND	41.7	"								
4-Bromophenyl phenyl ether	ND	41.7	"								
Caprolactam	ND	83.3	"								
Carbazole	ND	41.7	"								
4-Chloro-3-methylphenol	ND	41.7	"								
4-Chloroaniline	ND	41.7	"								
Bis(2-chloroethoxy)methane	ND	41.7	"								
Bis(2-chloroethyl)ether	ND	41.7	"								
Bis(2-chloroisopropyl)ether	ND	41.7	"								
2-Chloronaphthalene	ND	41.7	"								
2-Chlorophenol	ND	41.7	"								
4-Chlorophenyl phenyl ether	ND	41.7	"								
Chrysene	ND	41.7	"								
Dibenzo(a,h)anthracene	ND	41.7	"								
Dibenzofuran	ND	41.7	"								
Di-n-butyl phthalate	ND	41.7	"								
1,2-Dichlorobenzene	ND	41.7	"								
1,3-Dichlorobenzene	ND	41.7	"								
1,4-Dichlorobenzene	ND	41.7	"								
3,3'-Dichlorobenzidine	ND	41.7	"								
2,4-Dichlorophenol	ND	41.7	"								
Diethyl phthalate	ND	41.7	"								
2,4-Dimethylphenol	ND	41.7	"								
Dimethyl phthalate	ND	41.7	"								
4,6-Dinitro-2-methylphenol	ND	83.3	"								
2,4-Dinitrophenol	ND	83.3	"								
2,4-Dinitrotoluene	ND	41.7	"								
2,6-Dinitrotoluene	ND	41.7	"								
Di-n-octyl phthalate	ND	41.7	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	41.7	"								
Bis(2-ethylhexyl)phthalate	ND	41.7	"								
Fluoranthene	ND	41.7	"								
Fluorene	ND	41.7	"								
Hexachlorobenzene	ND	41.7	"								
Hexachlorobutadiene	ND	41.7	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51072 - EPA 3550C											
Blank (BA51072-BLK1)											
Prepared: 01/23/2015 Analyzed: 01/26/2015											
Hexachlorocyclopentadiene	ND	41.7	ug/kg wet								
Hexachloroethane	ND	41.7	"								
Indeno(1,2,3-cd)pyrene	ND	41.7	"								
Isophorone	ND	41.7	"								
2-Methylnaphthalene	ND	41.7	"								
2-Methylphenol	ND	41.7	"								
3- & 4-Methylphenols	ND	41.7	"								
Naphthalene	ND	41.7	"								
4-Nitroaniline	ND	83.3	"								
2-Nitroaniline	ND	83.3	"								
3-Nitroaniline	ND	83.3	"								
Nitrobenzene	ND	41.7	"								
2-Nitrophenol	ND	41.7	"								
4-Nitrophenol	ND	83.3	"								
N-nitroso-di-n-propylamine	ND	41.7	"								
N-Nitrosodimethylamine	ND	41.7	"								
N-Nitrosodiphenylamine	ND	41.7	"								
Pentachlorophenol	ND	41.7	"								
Phenanthrene	ND	41.7	"								
Phenol	ND	41.7	"								
Pyrene	ND	41.7	"								
1,2,4,5-Tetrachlorobenzene	ND	83.3	"								
2,3,4,6-Tetrachlorophenol	ND	83.3	"								
1,2,4-Trichlorobenzene	ND	41.7	"								
2,4,6-Trichlorophenol	ND	41.7	"								
2,4,5-Trichlorophenol	ND	41.7	"								
Surrogate: 2-Fluorophenol	*1760*		*"*	*2500*		*70.5*	*10-99*				
Surrogate: Phenol-d5	*1910*		*"*	*2510*		*76.1*	*10-108*				
Surrogate: Nitrobenzene-d5	*1260*		*"*	*1670*		*75.9*	*10-119*				
Surrogate: 2-Fluorobiphenyl	*1050*		*"*	*1670*		*62.6*	*10-114*				
Surrogate: 2,4,6-Tribromophenol	*1660*		*"*	*2500*		*66.4*	*10-106*				
Surrogate: Terphenyl-d14	*1020*		*"*	*1670*		*61.3*	*10-123*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51072 - EPA 3550C											
LCS (BA51072-BS1)								Prepared: 01/23/2015 Analyzed: 01/26/2015			
Acenaphthene	1090	41.7	ug/kg wet	1670		65.3	17-124				
Acenaphthylene	1020	41.7	"	1670		61.2	16-124				
Acetophenone	1170	41.7	"	1670		70.1	28-105				
Aniline	1260	167	"	1670		75.8	10-111				
Anthracene	968	41.7	"	1670		58.1	24-124				
Atrazine	1080	41.7	"	1670		64.7	22-120				
Benzaldehyde	1110	41.7	"	1670		66.6	21-100				
Benzo(a)anthracene	1250	41.7	"	1670		74.8	25-134				
Benzo(a)pyrene	1680	41.7	"	1670		101	29-144				
Benzo(b)fluoranthene	1760	41.7	"	1670		106	20-151				
Benzo(g,h,i)perylene	1150	41.7	"	1670		69.2	10-153				
Benzoic acid	853	41.7	"	1670		51.2	10-116				
Benzo(k)fluoranthene	2190	41.7	"	1670		131	10-148				
Benzyl alcohol	1200	41.7	"	1670		71.9	17-128				
Benzyl butyl phthalate	1280	41.7	"	1670		76.7	10-132				
1,1'-Biphenyl	1000	41.7	"	1670		60.0	22-103				
4-Bromophenyl phenyl ether	1040	41.7	"	1670		62.7	30-138				
Caprolactam	1380	83.3	"	1670		82.8	10-123				
Carbazole	1140	41.7	"	1670		68.1	31-120				
4-Chloro-3-methylphenol	1140	41.7	"	1670		68.1	16-138				
4-Chloroaniline	1080	41.7	"	1670		65.0	10-117				
Bis(2-chloroethoxy)methane	1240	41.7	"	1670		74.6	10-129				
Bis(2-chloroethyl)ether	1120	41.7	"	1670		67.3	14-125				
Bis(2-chloroisopropyl)ether	1210	41.7	"	1670		72.6	14-122				
2-Chloronaphthalene	1080	41.7	"	1670		64.8	22-115				
2-Chlorophenol	1110	41.7	"	1670		66.3	25-121				
4-Chlorophenyl phenyl ether	1070	41.7	"	1670		64.0	18-132				
Chrysene	1410	41.7	"	1670		84.8	24-116				
Dibenzo(a,h)anthracene	1240	41.7	"	1670		74.4	17-147				
Dibenzofuran	1030	41.7	"	1670		61.7	23-123				
Di-n-butyl phthalate	963	41.7	"	1670		57.8	19-123				
1,2-Dichlorobenzene	1010	41.7	"	1670		60.6	26-113				
1,3-Dichlorobenzene	1080	41.7	"	1670		64.9	32-113				
1,4-Dichlorobenzene	1020	41.7	"	1670		61.0	28-111				
3,3'-Dichlorobenzidine	1820	41.7	"	1670		109	10-147				
2,4-Dichlorophenol	1020	41.7	"	1670		61.1	23-133				
Diethyl phthalate	1120	41.7	"	1670		67.4	23-122				
2,4-Dimethylphenol	1050	41.7	"	1670		63.2	15-131				
Dimethyl phthalate	1220	41.7	"	1670		72.9	28-127				
4,6-Dinitro-2-methylphenol	1230	83.3	"	1670		74.0	10-149				
2,4-Dinitrophenol	1540	83.3	"	1670		92.4	10-149				
2,4-Dinitrotoluene	1330	41.7	"	1670		79.7	30-123				
2,6-Dinitrotoluene	1160	41.7	"	1670		69.7	30-125				
Di-n-octyl phthalate	1250	41.7	"	1670		75.1	10-132				
1,2-Diphenylhydrazine (as Azobenzene)	1110	41.7	"	1670		66.8	10-140				
Bis(2-ethylhexyl)phthalate	1170	41.7	"	1670		70.1	10-141				
Fluoranthene	1060	41.7	"	1670		63.6	36-125				
Fluorene	1050	41.7	"	1670		62.9	16-130				
Hexachlorobenzene	1000	41.7	"	1670		60.1	10-129				
Hexachlorobutadiene	1000	41.7	"	1670		60.1	22-153				
Hexachlorocyclopentadiene	932	41.7	"	1670		55.9	10-134				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51072 - EPA 3550C											
LCS (BA51072-BS1)									Prepared: 01/23/2015 Analyzed: 01/26/2015		
Hexachloroethane	1080	41.7	ug/kg wet	1670		64.5	20-112				
Indeno(1,2,3-cd)pyrene	1210	41.7	"	1670		72.5	10-155				
Isophorone	1150	41.7	"	1670		68.8	14-131				
2-Methylnaphthalene	977	41.7	"	1670		58.6	16-127				
2-Methylphenol	1010	41.7	"	1670		60.3	10-146				
3- & 4-Methylphenols	1040	41.7	"	1670		62.4	20-109				
Naphthalene	1010	41.7	"	1670		60.6	20-121				
4-Nitroaniline	1320	83.3	"	1670		79.1	14-125				
2-Nitroaniline	1230	83.3	"	1670		73.9	24-126				
3-Nitroaniline	1100	83.3	"	1670		65.8	23-123				
Nitrobenzene	1130	41.7	"	1670		68.1	20-121				
2-Nitrophenol	1010	41.7	"	1670		60.8	17-129				
4-Nitrophenol	1350	83.3	"	1670		81.0	10-136				
N-nitroso-di-n-propylamine	1220	41.7	"	1670		73.5	21-119				
N-Nitrosodimethylamine	990	41.7	"	1670		59.4	10-124				
N-Nitrosodiphenylamine	1030	41.7	"	1670		62.1	10-163				
Pentachlorophenol	1180	41.7	"	1670		71.0	10-143				
Phenanthrene	1070	41.7	"	1670		64.0	24-123				
Phenol	1040	41.7	"	1670		62.3	15-123				
Pyrene	1290	41.7	"	1670		77.5	24-132				
1,2,4,5-Tetrachlorobenzene	1080	83.3	"	1670		65.1	10-144				
2,3,4,6-Tetrachlorophenol	1990	83.3	"	1670		120	30-130				
1,2,4-Trichlorobenzene	1010	41.7	"	1670		60.5	23-130				
2,4,6-Trichlorophenol	1110	41.7	"	1670		66.4	27-122				
2,4,5-Trichlorophenol	1150	41.7	"	1670		69.1	14-138				
Surrogate: 2-Fluorophenol	*1460*		"	*2500*		*58.2*	*10-99*				
Surrogate: Phenol-d5	*1430*		"	*2510*		*56.9*	*10-108*				
Surrogate: Nitrobenzene-d5	*1020*		"	*1670*		*61.1*	*10-119*				
Surrogate: 2-Fluorobiphenyl	*856*		"	*1670*		*51.2*	*10-114*				
Surrogate: 2,4,6-Tribromophenol	*1440*		"	*2500*		*57.7*	*30-130*				
Surrogate: Terphenyl-d14	*1100*		"	*1670*		*66.1*	*10-123*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51072 - EPA 3550C											
LCS Dup (BA51072-BSD1)								Prepared: 01/23/2015 Analyzed: 01/26/2015			
Acenaphthene	1080	41.7	ug/kg wet	1670		64.9	17-124		0.522	30	
Acenaphthylene	1010	41.7	"	1670		60.4	16-124		1.22	30	
Acetophenone	1190	41.7	"	1670		71.4	28-105		1.84	30	
Aniline	1200	167	"	1670		71.9	10-111		5.31	30	
Anthracene	963	41.7	"	1670		57.8	24-124		0.483	30	
Atrazine	1150	41.7	"	1670		69.0	22-120		6.46	30	
Benzaldehyde	1120	41.7	"	1670		67.0	21-100		0.569	30	
Benzo(a)anthracene	1270	41.7	"	1670		76.5	25-134		2.25	30	
Benzo(a)pyrene	1700	41.7	"	1670		102	29-144		0.631	30	
Benzo(b)fluoranthene	1770	41.7	"	1670		106	20-151		0.528	30	
Benzo(g,h,i)perylene	1090	41.7	"	1670		65.2	10-153		5.89	30	
Benzoic acid	1020	41.7	"	1670		61.5	10-116		18.2	30	
Benzo(k)fluoranthene	1640	41.7	"	1670		98.1	10-148		28.8	30	
Benzyl alcohol	1190	41.7	"	1670		71.5	17-128		0.446	30	
Benzyl butyl phthalate	1290	41.7	"	1670		77.1	10-132		0.598	30	
1,1'-Biphenyl	984	41.7	"	1670		59.1	22-103		1.58	30	
4-Bromophenyl phenyl ether	1040	41.7	"	1670		62.4	30-138		0.480	30	
Caprolactam	1540	83.3	"	1670		92.5	10-123		11.1	30	
Carbazole	1130	41.7	"	1670		67.9	31-120		0.324	30	
4-Chloro-3-methylphenol	1160	41.7	"	1670		69.5	16-138		1.95	30	
4-Chloroaniline	1050	41.7	"	1670		63.1	10-117		2.87	30	
Bis(2-chloroethoxy)methane	1240	41.7	"	1670		74.5	10-129		0.161	30	
Bis(2-chloroethyl)ether	1200	41.7	"	1670		72.2	14-125		7.03	30	
Bis(2-chloroisopropyl)ether	1250	41.7	"	1670		75.0	14-122		3.25	30	
2-Chloronaphthalene	1030	41.7	"	1670		61.7	22-115		4.90	30	
2-Chlorophenol	1130	41.7	"	1670		67.6	25-121		1.85	30	
4-Chlorophenyl phenyl ether	1100	41.7	"	1670		65.8	18-132		2.71	30	
Chrysene	1410	41.7	"	1670		84.8	24-116		0.0943	30	
Dibenzo(a,h)anthracene	1180	41.7	"	1670		70.7	17-147		5.02	30	
Dibenzofuran	1030	41.7	"	1670		61.9	23-123		0.324	30	
Di-n-butyl phthalate	965	41.7	"	1670		57.9	19-123		0.138	30	
1,2-Dichlorobenzene	1020	41.7	"	1670		61.2	26-113		0.919	30	
1,3-Dichlorobenzene	1080	41.7	"	1670		65.1	32-113		0.339	30	
1,4-Dichlorobenzene	1030	41.7	"	1670		61.6	28-111		0.946	30	
3,3'-Dichlorobenzidine	1830	41.7	"	1670		110	10-147		0.365	30	
2,4-Dichlorophenol	1020	41.7	"	1670		61.0	23-133		0.229	30	
Diethyl phthalate	1140	41.7	"	1670		68.4	23-122		1.41	30	
2,4-Dimethylphenol	1030	41.7	"	1670		62.1	15-131		1.76	30	
Dimethyl phthalate	1220	41.7	"	1670		73.0	28-127		0.110	30	
4,6-Dinitro-2-methylphenol	1210	83.3	"	1670		72.6	10-149		1.91	30	
2,4-Dinitrophenol	1790	83.3	"	1670		108	10-149		15.2	30	
2,4-Dinitrotoluene	1360	41.7	"	1670		81.5	30-123		2.26	30	
2,6-Dinitrotoluene	1130	41.7	"	1670		68.1	30-125		2.35	30	
Di-n-octyl phthalate	1260	41.7	"	1670		75.7	10-132		0.769	30	
1,2-Diphenylhydrazine (as Azobenzene)	1090	41.7	"	1670		65.4	10-140		2.09	30	
Bis(2-ethylhexyl)phthalate	1170	41.7	"	1670		70.3	10-141		0.342	30	
Fluoranthene	1080	41.7	"	1670		64.6	36-125		1.53	30	
Fluorene	1060	41.7	"	1670		63.4	16-130		0.792	30	
Hexachlorobenzene	982	41.7	"	1670		58.9	10-129		1.98	30	
Hexachlorobutadiene	995	41.7	"	1670		59.7	22-153		0.701	30	
Hexachlorocyclopentadiene	911	41.7	"	1670		54.7	10-134		2.24	30	

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51072 - EPA 3550C											
LCS Dup (BA51072-BSD1)									Prepared: 01/23/2015 Analyzed: 01/26/2015		
Hexachloroethane	1070	41.7	ug/kg wet	1670		64.3	20-112		0.342	30	
Indeno(1,2,3-cd)pyrene	1150	41.7	"	1670		69.2	10-155		4.60	30	
Isophorone	1150	41.7	"	1670		68.9	14-131		0.0581	30	
2-Methylnaphthalene	998	41.7	"	1670		59.9	16-127		2.09	30	
2-Methylphenol	1020	41.7	"	1670		61.3	10-146		1.51	30	
3- & 4-Methylphenols	1070	41.7	"	1670		63.9	20-109		2.47	30	
Naphthalene	998	41.7	"	1670		59.9	20-121		1.16	30	
4-Nitroaniline	1410	83.3	"	1670		84.4	14-125		6.49	30	
2-Nitroaniline	1240	83.3	"	1670		74.4	24-126		0.648	30	
3-Nitroaniline	1140	83.3	"	1670		68.6	23-123		4.19	30	
Nitrobenzene	1140	41.7	"	1670		68.5	20-121		0.615	30	
2-Nitrophenol	1020	41.7	"	1670		61.2	17-129		0.656	30	
4-Nitrophenol	1380	83.3	"	1670		82.8	10-136		2.20	30	
N-nitroso-di-n-propylamine	1260	41.7	"	1670		75.9	21-119		3.16	30	
N-Nitrosodimethylamine	1100	41.7	"	1670		66.3	10-124		11.0	30	
N-Nitrosodiphenylamine	994	41.7	"	1670		59.6	10-163		4.01	30	
Pentachlorophenol	1230	41.7	"	1670		73.6	10-143		3.59	30	
Phenanthrene	1060	41.7	"	1670		63.7	24-123		0.345	30	
Phenol	1050	41.7	"	1670		62.8	15-123		0.800	30	
Pyrene	1340	41.7	"	1670		80.4	24-132		3.57	30	
1,2,4,5-Tetrachlorobenzene	1040	83.3	"	1670		62.1	10-144		4.59	30	
2,3,4,6-Tetrachlorophenol	2030	83.3	"	1670		122	30-130		1.92	30	
1,2,4-Trichlorobenzene	983	41.7	"	1670		59.0	23-130		2.51	30	
2,4,6-Trichlorophenol	1090	41.7	"	1670		65.1	27-122		1.98	30	
2,4,5-Trichlorophenol	1120	41.7	"	1670		67.4	14-138		2.52	30	
Surrogate: 2-Fluorophenol	*1490*		"	*2500*		*59.6*	*10-99*				
Surrogate: Phenol-d5	*1470*		"	*2510*		*58.6*	*10-108*				
Surrogate: Nitrobenzene-d5	*1010*		"	*1670*		*60.5*	*10-119*				
Surrogate: 2-Fluorobiphenyl	*836*		"	*1670*		*50.0*	*10-114*				
Surrogate: 2,4,6-Tribromophenol	*1500*		"	*2500*		*60.2*	*30-130*				
Surrogate: Terphenyl-d14	*1150*		"	*1670*		*69.1*	*10-123*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51072 - EPA 3550C											
Matrix Spike (BA51072-MS1)	*Source sample: 15A0781-01 (SB-1 (2.5-4.5))							Prepared: 01/23/2015 Analyzed: 01/26/2015			
Acenaphthene	1320	91.4	ug/kg dry	1830	54.1	69.3	13-133				
Acenaphthylene	1350	91.4	"	1830	315	56.6	25-125				
Acetophenone	1200	91.4	"	1830	ND	65.9	25-105				
Aniline	1010	366	"	1830	ND	55.3	10-112				
Anthracene	1250	91.4	"	1830	202	57.6	27-128				
Atrazine	1010	91.4	"	1830	ND	55.2	10-139				
Benzaldehyde	1090	91.4	"	1830	ND	59.5	24-96				
Benzo(a)anthracene	1700	91.4	"	1830	904	43.4	20-147				
Benzo(a)pyrene	688	91.4	"	1830	454	12.8	18-153	Low Bias			
Benzo(b)fluoranthene	836	91.4	"	1830	456	20.8	10-163				
Benzo(g,h,i)perylene	1890	91.4	"	1830	787	60.3	10-157				
Benzoic acid	638	91.4	"	1830	ND	35.0	10-130				
Benzo(k)fluoranthene	1040	91.4	"	1830	638	21.8	10-157				
Benzyl alcohol	1170	91.4	"	1830	ND	63.8	20-122				
Benzyl butyl phthalate	2070	91.4	"	1830	ND	113	10-129				
1,1'-Biphenyl	1250	91.4	"	1830	ND	68.3	24-112				
4-Bromophenyl phenyl ether	1420	91.4	"	1830	ND	77.8	32-148				
Caprolactam	1480	183	"	1830	ND	80.9	10-100				
Carbazole	1150	91.4	"	1830	57.0	60.0	24-139				
4-Chloro-3-methylphenol	1290	91.4	"	1830	ND	70.6	14-138				
4-Chloroaniline	1160	91.4	"	1830	ND	63.4	10-124				
Bis(2-chloroethoxy)methane	1310	91.4	"	1830	ND	71.5	12-128				
Bis(2-chloroethyl)ether	1110	91.4	"	1830	ND	61.0	18-113				
Bis(2-chloroisopropyl)ether	1360	91.4	"	1830	ND	74.6	10-130				
2-Chloronaphthalene	1290	91.4	"	1830	ND	70.7	31-116				
2-Chlorophenol	1130	91.4	"	1830	ND	61.9	28-114				
4-Chlorophenyl phenyl ether	1270	91.4	"	1830	ND	69.8	10-153				
Chrysene	1810	91.4	"	1830	1020	43.0	18-133				
Dibenzo(a,h)anthracene	1390	91.4	"	1830	289	60.4	10-146				
Dibenzofuran	1290	91.4	"	1830	ND	70.6	26-134				
Di-n-butyl phthalate	1050	91.4	"	1830	ND	57.4	20-128				
1,2-Dichlorobenzene	1030	91.4	"	1830	ND	56.4	29-106				
1,3-Dichlorobenzene	1030	91.4	"	1830	ND	56.4	34-100				
1,4-Dichlorobenzene	1040	91.4	"	1830	ND	56.7	26-107				
3,3'-Dichlorobenzidine	658	91.4	"	1830	ND	36.0	10-134				
2,4-Dichlorophenol	1160	91.4	"	1830	ND	63.8	16-144				
Diethyl phthalate	1250	91.4	"	1830	ND	68.6	30-119				
2,4-Dimethylphenol	1200	91.4	"	1830	ND	65.8	11-133				
Dimethyl phthalate	1310	91.4	"	1830	ND	71.9	34-120				
4,6-Dinitro-2-methylphenol	ND	183	"	1830	ND		10-149	Low Bias			
2,4-Dinitrophenol	ND	183	"	1830	ND		10-132	Low Bias			
2,4-Dinitrotoluene	1170	91.4	"	1830	ND	64.2	42-113				
2,6-Dinitrotoluene	1050	91.4	"	1830	ND	57.3	36-124				
Di-n-octyl phthalate	825	91.4	"	1830	ND	45.2	10-133				
1,2-Diphenylhydrazine (as Azobenzene)	1530	91.4	"	1830	ND	83.7	10-135				
Bis(2-ethylhexyl)phthalate	2310	91.4	"	1830	337	108	10-138				
Fluoranthene	1020	91.4	"	1830	771	13.8	10-155				
Fluorene	1340	91.4	"	1830	175	63.9	12-150				
Hexachlorobenzene	1350	91.4	"	1830	ND	73.8	16-142				
Hexachlorobutadiene	1100	91.4	"	1830	ND	60.2	11-150				
Hexachlorocyclopentadiene	ND	91.4	"	1830	ND		10-115	Low Bias			

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51072 - EPA 3550C											
Matrix Spike (BA51072-MS1)	*Source sample: 15A0781-01 (SB-1 (2.5-4.5))							Prepared: 01/23/2015 Analyzed: 01/26/2015			
Hexachloroethane	857	91.4	ug/kg dry	1830	ND	46.9	14-106				
Indeno(1,2,3-cd)pyrene	1550	91.4	"	1830	629	50.4	10-155				
Isophorone	1180	91.4	"	1830	ND	64.6	14-127				
2-Methylnaphthalene	1260	91.4	"	1830	110	63.0	10-143				
2-Methylphenol	1130	91.4	"	1830	ND	62.1	10-160				
3- & 4-Methylphenols	1160	91.4	"	1830	ND	63.5	16-115				
Naphthalene	1150	91.4	"	1830	ND	63.1	15-132				
4-Nitroaniline	1090	183	"	1830	ND	59.4	10-151				
2-Nitroaniline	1460	183	"	1830	ND	80.2	33-122				
3-Nitroaniline	1280	183	"	1830	ND	70.1	24-128				
Nitrobenzene	1160	91.4	"	1830	ND	63.7	18-125				
2-Nitrophenol	770	91.4	"	1830	ND	42.2	12-127				
4-Nitrophenol	1320	183	"	1830	ND	72.5	10-141				
N-nitroso-di-n-propylamine	1250	91.4	"	1830	ND	68.6	23-115				
N-Nitrosodimethylamine	858	91.4	"	1830	ND	47.0	10-123				
N-Nitrosodiphenylamine	1590	91.4	"	1830	ND	87.1	16-166				
Pentachlorophenol	1020	91.4	"	1830	ND	55.6	10-160				
Phenanthrene	1400	91.4	"	1830	229	63.9	10-151				
Phenol	1120	91.4	"	1830	ND	61.5	11-124				
Pyrene	3950	91.4	"	1830	2430	83.6	13-148				
1,2,4,5-Tetrachlorobenzene	1380	183	"	1830	ND	75.3	18-152				
2,3,4,6-Tetrachlorophenol	2270	183	"	1830	ND	124	30-130				
1,2,4-Trichlorobenzene	1110	91.4	"	1830	ND	60.7	15-139				
2,4,6-Trichlorophenol	1310	91.4	"	1830	ND	71.6	12-138				
2,4,5-Trichlorophenol	1370	91.4	"	1830	ND	75.0	10-148				
Surrogate: 2-Fluorophenol	*1510*		*"*	*2740*		*55.1*	*10-99*				
Surrogate: Phenol-d5	*1600*		*"*	*2750*		*58.4*	*10-108*				
Surrogate: Nitrobenzene-d5	*1040*		*"*	*1830*		*57.1*	*10-119*				
Surrogate: 2-Fluorobiphenyl	*1060*		*"*	*1830*		*57.8*	*10-114*				
Surrogate: 2,4,6-Tribromophenol	*2110*		*"*	*2740*		*77.1*	*30-130*				
Surrogate: Terphenyl-d14	*2110*		*"*	*1830*		*115*	*10-123*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51083 - EPA 3510C											
Blank (BA51083-BLK1)									Prepared & Analyzed: 01/26/2015		
Acenaphthene	ND	0.0500	ug/L								
Acenaphthylene	ND	0.0500	"								
Acetophenone	ND	5.00	"								
Aniline	ND	5.00	"								
Anthracene	ND	0.0500	"								
Atrazine	ND	0.500	"								
Benzaldehyde	ND	5.00	"								
Benzidine	ND	20.0	"								
Benzo(a)anthracene	ND	0.0500	"								
Benzo(a)pyrene	ND	0.0500	"								
Benzo(b)fluoranthene	ND	0.0500	"								
Benzo(g,h,i)perylene	ND	0.0500	"								
Benzoic acid	ND	50.0	"								
Benzo(k)fluoranthene	ND	0.0500	"								
Benzyl alcohol	ND	5.00	"								
Benzyl butyl phthalate	ND	5.00	"								
1,1'-Biphenyl	ND	5.00	"								
4-Bromophenyl phenyl ether	ND	5.00	"								
Caprolactam	ND	5.00	"								
Carbazole	ND	5.00	"								
4-Chloro-3-methylphenol	ND	5.00	"								
4-Chloroaniline	ND	5.00	"								
Bis(2-chloroethoxy)methane	ND	5.00	"								
Bis(2-chloroethyl)ether	ND	5.00	"								
Bis(2-chloroisopropyl)ether	ND	5.00	"								
2-Chloronaphthalene	ND	5.00	"								
2-Chlorophenol	ND	5.00	"								
4-Chlorophenyl phenyl ether	ND	5.00	"								
Chrysene	ND	0.0500	"								
Dibenzo(a,h)anthracene	ND	0.0500	"								
Dibenzofuran	ND	5.00	"								
Di-n-butyl phthalate	ND	5.00	"								
1,4-Dichlorobenzene	ND	5.00	"								
1,2-Dichlorobenzene	ND	5.00	"								
1,3-Dichlorobenzene	ND	5.00	"								
3,3'-Dichlorobenzidine	ND	5.00	"								
2,4-Dichlorophenol	ND	5.00	"								
Diethyl phthalate	ND	5.00	"								
2,4-Dimethylphenol	ND	5.00	"								
Dimethyl phthalate	ND	5.00	"								
4,6-Dinitro-2-methylphenol	ND	5.00	"								
2,4-Dinitrophenol	ND	5.00	"								
2,4-Dinitrotoluene	ND	5.00	"								
2,6-Dinitrotoluene	ND	5.00	"								
Di-n-octyl phthalate	ND	5.00	"								
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"								
Bis(2-ethylhexyl)phthalate	ND	0.500	"								
Fluoranthene	ND	0.0500	"								
Fluorene	ND	0.0500	"								
Hexachlorobenzene	ND	0.0200	"								
Hexachlorobutadiene	ND	0.500	"								

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51083 - EPA 3510C											
Blank (BA51083-BLK1)											
Prepared & Analyzed: 01/26/2015											
Hexachlorocyclopentadiene	ND	5.00	ug/L								
Hexachloroethane	ND	0.500	"								
Indeno(1,2,3-cd)pyrene	ND	0.0500	"								
Isophorone	ND	5.00	"								
2-Methylnaphthalene	ND	5.00	"								
2-Methylphenol	ND	5.00	"								
3- & 4-Methylphenols	ND	5.00	"								
Naphthalene	ND	0.0500	"								
3-Nitroaniline	ND	5.00	"								
4-Nitroaniline	ND	5.00	"								
2-Nitroaniline	ND	5.00	"								
Nitrobenzene	ND	0.250	"								
4-Nitrophenol	ND	5.00	"								
2-Nitrophenol	ND	5.00	"								
N-nitroso-di-n-propylamine	ND	5.00	"								
N-Nitrosodimethylamine	ND	0.500	"								
N-Nitrosodiphenylamine	ND	5.00	"								
Pentachlorophenol	ND	0.250	"								
Phenanthrene	ND	0.0500	"								
Phenol	ND	5.00	"								
Pyrene	ND	0.0500	"								
1,2,4,5-Tetrachlorobenzene	ND	5.00	"								
2,3,4,6-Tetrachlorophenol	ND	5.00	"								
1,2,4-Trichlorobenzene	ND	5.00	"								
2,4,6-Trichlorophenol	ND	5.00	"								
2,4,5-Trichlorophenol	ND	5.00	"								
Surrogate: 2-Fluorophenol	*31.7*		*"*	*75.0*		*42.3*	*10-47*				
Surrogate: Phenol-d5	*21.8*		*"*	*75.2*		*28.9*	*10-37*				
Surrogate: Nitrobenzene-d5	*32.4*		*"*	*50.0*		*64.8*	*10-109*				
Surrogate: 2-Fluorobiphenyl	*31.0*		*"*	*50.2*		*61.7*	*10-97*				
Surrogate: 2,4,6-Tribromophenol	*40.3*		*"*	*75.0*		*53.7*	*10-112*				
Surrogate: Terphenyl-d14	*32.0*		*"*	*50.0*		*63.9*	*10-137*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51083 - EPA 3510C											
LCS (BA51083-BS1)							Prepared & Analyzed: 01/26/2015				
Acenaphthene	40.1	0.0500	ug/L	50.0		80.2	24-114				
Acenaphthylene	38.5	0.0500	"	50.0		76.9	26-112				
Acetophenone	35.7	5.00	"	50.0		71.3	47-92				
Aniline	44.4	5.00	"	50.0		88.7	10-107				
Anthracene	38.8	0.0500	"	50.0		77.5	35-114				
Atrazine	39.6	0.500	"	50.0		79.3	43-101				
Benzaldehyde	42.2	5.00	"	50.0		84.3	17-117				
Benzo(a)anthracene	44.7	0.0500	"	50.0		89.5	38-127				
Benzo(a)pyrene	43.4	0.0500	"	50.0		86.9	30-146				
Benzo(b)fluoranthene	40.5	0.0500	"	50.0		80.9	36-145				
Benzo(g,h,i)perylene	44.9	0.0500	"	50.0		89.8	10-163				
Benzoic acid	ND	50.0	"	50.0			30-130	Low Bias			
Benzo(k)fluoranthene	38.7	0.0500	"	50.0		77.3	16-149				
Benzyl alcohol	38.2	5.00	"	50.0		76.3	18-75	High Bias			
Benzyl butyl phthalate	47.8	5.00	"	50.0		95.6	28-129				
1,1'-Biphenyl	39.8	5.00	"	50.0		79.6	21-102				
4-Bromophenyl phenyl ether	34.3	5.00	"	50.0		68.6	38-116				
Caprolactam	15.0	5.00	"	50.0		29.9	10-29	High Bias			
Carbazole	41.4	5.00	"	50.0		82.8	49-116				
4-Chloro-3-methylphenol	41.7	5.00	"	50.0		83.5	28-101				
4-Chloroaniline	41.1	5.00	"	50.0		82.3	10-154				
Bis(2-chloroethoxy)methane	32.5	5.00	"	50.0		65.1	27-112				
Bis(2-chloroethyl)ether	35.4	5.00	"	50.0		70.7	24-114				
Bis(2-chloroisopropyl)ether	38.8	5.00	"	50.0		77.5	21-124				
2-Chloronaphthalene	37.2	5.00	"	50.0		74.3	40-96				
2-Chlorophenol	39.2	5.00	"	50.0		78.3	35-84				
4-Chlorophenyl phenyl ether	37.9	5.00	"	50.0		75.8	34-112				
Chrysene	45.7	0.0500	"	50.0		91.5	33-120				
Dibenzo(a,h)anthracene	44.2	0.0500	"	50.0		88.5	10-149				
Dibenzofuran	40.3	5.00	"	50.0		80.6	42-105				
Di-n-butyl phthalate	37.9	5.00	"	50.0		75.9	36-110				
1,4-Dichlorobenzene	33.9	5.00	"	50.0		67.7	42-82				
1,2-Dichlorobenzene	34.0	5.00	"	50.0		68.0	42-85				
1,3-Dichlorobenzene	34.2	5.00	"	50.0		68.4	45-80				
3,3'-Dichlorobenzidine	51.6	5.00	"	50.0		103	25-155				
2,4-Dichlorophenol	37.4	5.00	"	50.0		74.8	43-92				
Diethyl phthalate	42.4	5.00	"	50.0		84.8	38-112				
2,4-Dimethylphenol	35.8	5.00	"	50.0		71.6	25-92				
Dimethyl phthalate	43.6	5.00	"	50.0		87.1	49-106				
4,6-Dinitro-2-methylphenol	ND	5.00	"	50.0			10-135	Low Bias			
2,4-Dinitrophenol	35.8	5.00	"	50.0		71.5	10-149				
2,4-Dinitrotoluene	46.4	5.00	"	50.0		92.8	41-114				
2,6-Dinitrotoluene	44.2	5.00	"	50.0		88.3	49-106				
Di-n-octyl phthalate	50.3	5.00	"	50.0		101	12-149				
1,2-Diphenylhydrazine (as Azobenzene)	42.2	5.00	"	50.0		84.3	16-137				
Bis(2-ethylhexyl)phthalate	53.5	0.500	"	50.0		107	10-171				
Fluoranthene	37.8	0.0500	"	50.0		75.6	33-126				
Fluorene	40.2	0.0500	"	50.0		80.3	28-117				
Hexachlorobenzene	43.6	0.0200	"	50.0		87.2	27-120				
Hexachlorobutadiene	31.5	0.500	"	50.0		62.9	25-106				
Hexachlorocyclopentadiene	21.5	5.00	"	50.0		43.0	10-99				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51083 - EPA 3510C											
LCS (BA51083-BS1)								Prepared & Analyzed: 01/26/2015			
Hexachloroethane	34.4	0.500	ug/L	50.0		68.9	33-84				
Indeno(1,2,3-cd)pyrene	45.3	0.0500	"	50.0		90.7	10-150				
Isophorone	34.9	5.00	"	50.0		69.7	29-115				
2-Methylnaphthalene	34.0	5.00	"	50.0		68.1	33-101				
2-Methylphenol	ND	5.00	"	50.0			10-90	Low Bias			
3- & 4-Methylphenols	29.2	5.00	"	50.0		58.4	10-101				
Naphthalene	33.7	0.0500	"	50.0		67.3	30-99				
3-Nitroaniline	54.8	5.00	"	50.0		110	29-128				
4-Nitroaniline	49.4	5.00	"	50.0		98.8	15-143				
2-Nitroaniline	48.9	5.00	"	50.0		97.9	31-122				
Nitrobenzene	35.2	0.250	"	50.0		70.3	32-113				
4-Nitrophenol	3.95	5.00	"	50.0		7.90	10-112	Low Bias			
2-Nitrophenol	35.4	5.00	"	50.0		70.8	37-97				
N-nitroso-di-n-propylamine	36.3	5.00	"	50.0		72.6	36-118				
N-Nitrosodimethylamine	27.7	0.500	"	50.0		55.4	10-63				
N-Nitrosodiphenylamine	47.3	5.00	"	50.0		94.6	27-145				
Pentachlorophenol	34.4	0.250	"	50.0		68.7	19-127				
Phenanthrene	40.0	0.0500	"	50.0		80.0	31-112				
Phenol	ND	5.00	"	50.0			10-37	Low Bias			
Pyrene	47.2	0.0500	"	50.0		94.3	42-125				
1,2,4,5-Tetrachlorobenzene	34.5	5.00	"	50.0		69.0	28-105				
2,3,4,6-Tetrachlorophenol	48.4	5.00	"	50.0		96.8	30-130				
1,2,4-Trichlorobenzene	30.8	5.00	"	50.0		61.6	35-91				
2,4,6-Trichlorophenol	46.3	5.00	"	50.0		92.7	41-107				
2,4,5-Trichlorophenol	40.9	5.00	"	50.0		81.8	36-112				
Surrogate: 2-Fluorophenol	*44.2*		*"*	*75.0*		*59.0*	*10-47*				
Surrogate: Phenol-d5	*26.2*		*"*	*75.2*		*34.8*	*10-37*				
Surrogate: Nitrobenzene-d5	*39.3*		*"*	*50.0*		*78.6*	*10-109*				
Surrogate: 2-Fluorobiphenyl	*37.9*		*"*	*50.2*		*75.4*	*10-97*				
Surrogate: 2,4,6-Tribromophenol	*47.0*		*"*	*75.0*		*62.7*	*10-112*				
Surrogate: Terphenyl-d14	*43.7*		*"*	*50.0*		*87.4*	*10-137*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51083 - EPA 3510C											
LCS (BA51083-BS2)							Prepared & Analyzed: 01/26/2015				
Acenaphthene	0.460	0.0500	ug/L	1.00		46.0	24-114				
Acenaphthylene	0.570	0.0500	"	1.00		57.0	26-112				
Acetophenone	ND	5.00	"				47-92				
Aniline	ND	5.00	"				10-107				
Anthracene	0.600	0.0500	"	1.00		60.0	35-114				
Atrazine	ND	0.500	"				43-101				
Benzaldehyde	ND	5.00	"				17-117				
Benzo(a)anthracene	0.610	0.0500	"	1.00		61.0	38-127				
Benzo(a)pyrene	0.630	0.0500	"	1.00		63.0	30-146				
Benzo(b)fluoranthene	1.09	0.0500	"	1.00		109	36-145				
Benzo(g,h,i)perylene	0.660	0.0500	"	1.00		66.0	10-163				
Benzoic acid	ND	50.0	"				30-130				
Benzo(k)fluoranthene	1.07	0.0500	"	1.00		107	16-149				
Benzyl alcohol	ND	5.00	"				18-75				
Benzyl butyl phthalate	ND	5.00	"				28-129				
1,1'-Biphenyl	ND	5.00	"				21-102				
4-Bromophenyl phenyl ether	ND	5.00	"				38-116				
Caprolactam	ND	5.00	"				10-29				
Carbazole	ND	5.00	"				49-116				
4-Chloro-3-methylphenol	ND	5.00	"				28-101				
4-Chloroaniline	ND	5.00	"				10-154				
Bis(2-chloroethoxy)methane	ND	5.00	"				27-112				
Bis(2-chloroethyl)ether	ND	5.00	"				24-114				
Bis(2-chloroisopropyl)ether	ND	5.00	"				21-124				
2-Chloronaphthalene	ND	5.00	"				40-96				
2-Chlorophenol	ND	5.00	"				35-84				
4-Chlorophenyl phenyl ether	ND	5.00	"				34-112				
Chrysene	0.590	0.0500	"	1.00		59.0	33-120				
Dibenzo(a,h)anthracene	0.660	0.0500	"	1.00		66.0	10-149				
Dibenzofuran	ND	5.00	"				42-105				
Di-n-butyl phthalate	ND	5.00	"				36-110				
1,4-Dichlorobenzene	ND	5.00	"				42-82				
1,2-Dichlorobenzene	ND	5.00	"				42-85				
1,3-Dichlorobenzene	ND	5.00	"				45-80				
3,3'-Dichlorobenzidine	ND	5.00	"				25-155				
2,4-Dichlorophenol	ND	5.00	"				43-92				
Diethyl phthalate	ND	5.00	"				38-112				
2,4-Dimethylphenol	ND	5.00	"				25-92				
Dimethyl phthalate	ND	5.00	"				49-106				
4,6-Dinitro-2-methylphenol	ND	5.00	"				10-135				
2,4-Dinitrophenol	ND	5.00	"				10-149				
2,4-Dinitrotoluene	ND	5.00	"				41-114				
2,6-Dinitrotoluene	ND	5.00	"				49-106				
Di-n-octyl phthalate	ND	5.00	"				12-149				
1,2-Diphenylhydrazine (as Azobenzene)	ND	5.00	"				16-137				
Bis(2-ethylhexyl)phthalate	ND	0.500	"				10-171				
Fluoranthene	0.680	0.0500	"	1.00		68.0	33-126				
Fluorene	0.520	0.0500	"	1.00		52.0	28-117				
Hexachlorobenzene	ND	0.0200	"				27-120				
Hexachlorobutadiene	ND	0.500	"				25-106				
Hexachlorocyclopentadiene	ND	5.00	"				10-99				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51083 - EPA 3510C											
LCS (BA51083-BS2)							Prepared & Analyzed: 01/26/2015				
Hexachloroethane	ND	0.500	ug/L				33-84				
Indeno(1,2,3-cd)pyrene	0.650	0.0500	"	1.00		65.0	10-150				
Isophorone	ND	5.00	"				29-115				
2-Methylnaphthalene	ND	5.00	"				33-101				
2-Methylphenol	ND	5.00	"				10-90				
3- & 4-Methylphenols	ND	5.00	"				10-101				
Naphthalene	0.240	0.0500	"	1.00		24.0	30-99	Low Bias			
3-Nitroaniline	ND	5.00	"				29-128				
4-Nitroaniline	ND	5.00	"				15-143				
2-Nitroaniline	ND	5.00	"				31-122				
Nitrobenzene	ND	0.250	"				32-113				
4-Nitrophenol	ND	5.00	"				10-112				
2-Nitrophenol	ND	5.00	"				37-97				
N-nitroso-di-n-propylamine	ND	5.00	"				36-118				
N-Nitrosodimethylamine	ND	0.500	"				10-63				
N-Nitrosodiphenylamine	ND	5.00	"				27-145				
Pentachlorophenol	ND	0.250	"				19-127				
Phenanthrene	0.660	0.0500	"	1.00		66.0	31-112				
Phenol	ND	5.00	"				10-37				
Pyrene	0.640	0.0500	"	1.00		64.0	42-125				
1,2,4,5-Tetrachlorobenzene	ND	5.00	"				28-105				
2,3,4,6-Tetrachlorophenol	ND	5.00	"				30-130				
1,2,4-Trichlorobenzene	ND	5.00	"				35-91				
2,4,6-Trichlorophenol	ND	5.00	"				41-107				
2,4,5-Trichlorophenol	ND	5.00	"				36-112				
Surrogate: 2-Fluorophenol	*0.00*		*"*	*75.0*			*10-47*				
Surrogate: Phenol-d5	*0.00*		*"*	*75.2*			*10-37*				
Surrogate: Nitrobenzene-d5	*0.00*		*"*	*50.0*			*10-109*				
Surrogate: 2-Fluorobiphenyl	*0.00*		*"*	*50.2*			*10-97*				
Surrogate: 2,4,6-Tribromophenol	*0.00*		*"*	*75.0*			*10-112*				
Surrogate: Terphenyl-d14	*0.00*		*"*	*50.0*			*10-137*				

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51083 - EPA 3510C											
LCS Dup (BA51083-BSD1)								Prepared & Analyzed: 01/26/2015			
Acenaphthene	36.2	0.0500	ug/L	50.0		72.4	24-114		10.2	20	
Acenaphthylene	35.0	0.0500	"	50.0		70.0	26-112		9.36	20	
Acetophenone	32.4	5.00	"	50.0		64.8	47-92		9.58	20	
Aniline	35.4	5.00	"	50.0		70.8	10-107		22.4	20	Non-dir.
Anthracene	35.2	0.0500	"	50.0		70.4	35-114		9.66	20	
Atrazine	38.0	0.500	"	50.0		76.1	43-101		4.09	20	
Benzaldehyde	37.0	5.00	"	50.0		73.9	17-117		13.1	20	
Benzo(a)anthracene	40.2	0.0500	"	50.0		80.5	38-127		10.6	20	
Benzo(a)pyrene	39.0	0.0500	"	50.0		78.0	30-146		10.7	20	
Benzo(b)fluoranthene	37.8	0.0500	"	50.0		75.7	36-145		6.72	20	
Benzo(g,h,i)perylene	39.5	0.0500	"	50.0		79.1	10-163		12.7	20	
Benzoic acid	ND	50.0	"	50.0			30-130	Low Bias		20	
Benzo(k)fluoranthene	36.0	0.0500	"	50.0		72.1	16-149		7.07	20	
Benzyl alcohol	31.6	5.00	"	50.0		63.2	18-75		18.8	20	
Benzyl butyl phthalate	42.1	5.00	"	50.0		84.3	28-129		12.6	20	
1,1'-Biphenyl	36.1	5.00	"	50.0		72.3	21-102		9.64	20	
4-Bromophenyl phenyl ether	31.5	5.00	"	50.0		62.9	38-116		8.61	20	
Caprolactam	12.8	5.00	"	50.0		25.6	10-29		15.7	20	
Carbazole	38.4	5.00	"	50.0		76.9	49-116		7.41	20	
4-Chloro-3-methylphenol	36.6	5.00	"	50.0		73.2	28-101		13.2	20	
4-Chloroaniline	33.3	5.00	"	50.0		66.5	10-154		21.2	20	Non-dir.
Bis(2-chloroethoxy)methane	28.4	5.00	"	50.0		56.8	27-112		13.5	20	
Bis(2-chloroethyl)ether	31.8	5.00	"	50.0		63.7	24-114		10.4	20	
Bis(2-chloroisopropyl)ether	33.4	5.00	"	50.0		66.7	21-124		15.0	20	
2-Chloronaphthalene	32.9	5.00	"	50.0		65.8	40-96		12.2	20	
2-Chlorophenol	32.9	5.00	"	50.0		65.9	35-84		17.3	20	
4-Chlorophenyl phenyl ether	34.4	5.00	"	50.0		68.9	34-112		9.59	20	
Chrysene	41.2	0.0500	"	50.0		82.5	33-120		10.3	20	
Dibenzo(a,h)anthracene	39.1	0.0500	"	50.0		78.1	10-149		12.4	20	
Dibenzofuran	35.7	5.00	"	50.0		71.3	42-105		12.2	20	
Di-n-butyl phthalate	34.5	5.00	"	50.0		69.1	36-110		9.38	20	
1,4-Dichlorobenzene	28.3	5.00	"	50.0		56.6	42-82		17.9	20	
1,2-Dichlorobenzene	28.5	5.00	"	50.0		57.0	42-85		17.5	20	
1,3-Dichlorobenzene	29.6	5.00	"	50.0		59.2	45-80		14.4	20	
3,3'-Dichlorobenzidine	46.9	5.00	"	50.0		93.7	25-155		9.68	20	
2,4-Dichlorophenol	32.6	5.00	"	50.0		65.2	43-92		13.8	20	
Diethyl phthalate	38.7	5.00	"	50.0		77.4	38-112		9.12	20	
2,4-Dimethylphenol	31.8	5.00	"	50.0		63.6	25-92		11.8	20	
Dimethyl phthalate	40.1	5.00	"	50.0		80.2	49-106		8.27	20	
4,6-Dinitro-2-methylphenol	41.6	5.00	"	50.0		83.2	10-135			20	
2,4-Dinitrophenol	30.7	5.00	"	50.0		61.4	10-149		15.3	20	
2,4-Dinitrotoluene	43.4	5.00	"	50.0		86.7	41-114		6.75	20	
2,6-Dinitrotoluene	39.8	5.00	"	50.0		79.5	49-106		10.5	20	
Di-n-octyl phthalate	45.3	5.00	"	50.0		90.6	12-149		10.5	20	
1,2-Diphenylhydrazine (as Azobenzene)	38.1	5.00	"	50.0		76.2	16-137		10.2	20	
Bis(2-ethylhexyl)phthalate	48.5	0.500	"	50.0		97.0	10-171		9.73	20	
Fluoranthene	34.9	0.0500	"	50.0		69.8	33-126		7.97	20	
Fluorene	36.9	0.0500	"	50.0		73.9	28-117		8.38	20	
Hexachlorobenzene	40.3	0.0200	"	50.0		80.7	27-120		7.72	20	
Hexachlorobutadiene	26.5	0.500	"	50.0		53.0	25-106		17.0	20	
Hexachlorocyclopentadiene	20.2	5.00	"	50.0		40.5	10-99		6.04	20	

Semivolatile Organic Compounds by GC/MS - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51083 - EPA 3510C											
LCS Dup (BA51083-BSD1)							Prepared & Analyzed: 01/26/2015				
Hexachloroethane	28.4	0.500	ug/L	50.0		56.8	33-84		19.2	20	
Indeno(1,2,3-cd)pyrene	41.6	0.0500	"	50.0		83.3	10-150		8.48	20	
Isophorone	30.8	5.00	"	50.0		61.5	29-115		12.5	20	
2-Methylnaphthalene	30.3	5.00	"	50.0		60.7	33-101		11.6	20	
2-Methylphenol	29.8	5.00	"	50.0		59.6	10-90		190	20	Non-dir.
3- & 4-Methylphenols	24.1	5.00	"	50.0		48.3	10-101		19.1	20	
Naphthalene	29.7	0.0500	"	50.0		59.4	30-99		12.6	20	
3-Nitroaniline	47.1	5.00	"	50.0		94.3	29-128		14.9	20	
4-Nitroaniline	45.8	5.00	"	50.0		91.5	15-143		7.65	20	
2-Nitroaniline	44.6	5.00	"	50.0		89.3	31-122		9.17	20	
Nitrobenzene	30.8	0.250	"	50.0		61.7	32-113		13.1	20	
4-Nitrophenol	5.87	5.00	"	50.0		11.7	10-112		39.1	20	Non-dir.
2-Nitrophenol	31.7	5.00	"	50.0		63.5	37-97		11.0	20	
N-nitroso-di-n-propylamine	31.6	5.00	"	50.0		63.2	36-118		13.7	20	
N-Nitrosodimethylamine	25.2	0.500	"	50.0		50.3	10-63		9.65	20	
N-Nitrosodiphenylamine	42.8	5.00	"	50.0		85.6	27-145		9.99	20	
Pentachlorophenol	30.8	0.250	"	50.0		61.7	19-127		10.8	20	
Phenanthrene	36.7	0.0500	"	50.0		73.4	31-112		8.53	20	
Phenol	ND	5.00	"	50.0			10-37	Low Bias		20	
Pyrene	42.3	0.0500	"	50.0		84.6	42-125		10.8	20	
1,2,4,5-Tetrachlorobenzene	29.4	5.00	"	50.0		58.8	28-105		15.9	20	
2,3,4,6-Tetrachlorophenol	98.8	5.00	"	50.0		198	30-130	High Bias	68.4	20	Non-dir.
1,2,4-Trichlorobenzene	26.8	5.00	"	50.0		53.6	35-91		13.8	20	
2,4,6-Trichlorophenol	41.5	5.00	"	50.0		83.0	41-107		11.0	20	
2,4,5-Trichlorophenol	36.8	5.00	"	50.0		73.5	36-112		10.6	20	
Surrogate: 2-Fluorophenol	*35.8*		"	*75.0*		*47.7*	*10-47*				
Surrogate: Phenol-d5	*22.4*		"	*75.2*		*29.8*	*10-37*				
Surrogate: Nitrobenzene-d5	*35.1*		"	*50.0*		*70.2*	*10-109*				
Surrogate: 2-Fluorobiphenyl	*33.6*		"	*50.2*		*66.9*	*10-97*				
Surrogate: 2,4,6-Tribromophenol	*43.4*		"	*75.0*		*57.8*	*10-112*				
Surrogate: Terphenyl-d14	*39.8*		"	*50.0*		*79.6*	*10-137*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51071 - EPA 3545A											
Blank (BA51071-BLK1)											Prepared: 01/23/2015 Analyzed: 01/26/2015
4,4'-DDD	ND	0.495	ug/kg wet								
4,4'-DDE	ND	0.495	"								
4,4'-DDT	ND	0.495	"								
Aldrin	ND	0.495	"								
alpha-BHC	ND	0.495	"								
beta-BHC	ND	0.495	"								
Chlordane, total	ND	19.8	"								
gamma-Chlordane	ND	0.495	"								
delta-BHC	ND	0.495	"								
Dieldrin	ND	0.495	"								
Endosulfan I	ND	0.495	"								
Endosulfan II	ND	0.495	"								
Endosulfan sulfate	ND	0.495	"								
Endrin	ND	0.495	"								
Endrin aldehyde	ND	0.495	"								
Endrin ketone	ND	0.495	"								
gamma-BHC (Lindane)	ND	0.495	"								
Heptachlor	ND	0.495	"								
Heptachlor epoxide	ND	0.495	"								
alpha-Chlordane	ND	0.495	"								
Methoxychlor	ND	2.48	"								
Toxaphene	ND	25.0	"								
Surrogate: Tetrachloro-m-xylene	*90.9*		*"*	*102*		*89.6*	*30-140*				
Surrogate: Decachlorobiphenyl	*87.1*		*"*	*100*		*86.7*	*30-140*				
LCS (BA51071-BS1)											Prepared: 01/23/2015 Analyzed: 01/26/2015
4,4'-DDD	35.4	0.495	ug/kg wet	50.0		70.7	40-140				
4,4'-DDE	37.2	0.495	"	50.0		74.3	40-140				
4,4'-DDT	34.8	0.495	"	50.0		69.5	40-140				
Aldrin	34.1	0.495	"	50.0		68.1	40-140				
alpha-BHC	34.3	0.495	"	50.0		68.7	40-140				
beta-BHC	33.3	0.495	"	50.0		66.7	40-140				
gamma-Chlordane	32.6	0.495	"	50.0		65.3	40-140				
delta-BHC	35.0	0.495	"	50.0		70.0	40-140				
Dieldrin	33.1	0.495	"	50.0		66.1	40-140				
Endosulfan I	34.4	0.495	"	50.0		68.8	40-140				
Endosulfan II	34.6	0.495	"	50.0		69.3	40-140				
Endosulfan sulfate	35.0	0.495	"	50.0		70.1	40-140				
Endrin	34.3	0.495	"	50.0		68.7	40-140				
Endrin aldehyde	30.3	0.495	"	50.0		60.6	40-140				
Endrin ketone	33.2	0.495	"	50.0		66.5	40-140				
gamma-BHC (Lindane)	33.1	0.495	"	50.0		66.3	40-140				
Heptachlor	32.9	0.495	"	50.0		65.9	40-140				
Heptachlor epoxide	31.9	0.495	"	50.0		63.9	40-140				
alpha-Chlordane	32.8	0.495	"	50.0		65.6	40-140				
Methoxychlor	33.1	2.48	"	50.0		66.2	40-140				
Surrogate: Tetrachloro-m-xylene	*79.4*		*"*	*102*		*78.2*	*30-140*				
Surrogate: Decachlorobiphenyl	*64.4*		*"*	*100*		*64.1*	*30-140*				

Organochlorine Pesticides by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51071 - EPA 3545A											
LCS Dup (BA51071-BSD1)								Prepared: 01/23/2015 Analyzed: 01/26/2015			
4,4'-DDD	38.4	0.495	ug/kg wet	50.0		76.7	40-140		8.17	30	
4,4'-DDE	40.0	0.495	"	50.0		80.1	40-140		7.47	30	
4,4'-DDT	38.6	0.495	"	50.0		77.2	40-140		10.4	30	
Aldrin	35.2	0.495	"	50.0		70.5	40-140		3.37	30	
alpha-BHC	34.5	0.495	"	50.0		68.9	40-140		0.372	30	
beta-BHC	34.0	0.495	"	50.0		68.0	40-140		1.93	30	
gamma-Chlordane	34.5	0.495	"	50.0		69.1	40-140		5.64	30	
delta-BHC	36.1	0.495	"	50.0		72.2	40-140		3.01	30	
Dieldrin	35.2	0.495	"	50.0		70.4	40-140		6.22	30	
Endosulfan I	36.6	0.495	"	50.0		73.2	40-140		6.25	30	
Endosulfan II	37.5	0.495	"	50.0		74.9	40-140		7.81	30	
Endosulfan sulfate	38.4	0.495	"	50.0		76.9	40-140		9.31	30	
Endrin	37.0	0.495	"	50.0		74.0	40-140		7.48	30	
Endrin aldehyde	33.3	0.495	"	50.0		66.5	40-140		9.27	30	
Endrin ketone	36.6	0.495	"	50.0		73.2	40-140		9.66	30	
gamma-BHC (Lindane)	33.5	0.495	"	50.0		67.0	40-140		1.02	30	
Heptachlor	33.9	0.495	"	50.0		67.8	40-140		2.86	30	
Heptachlor epoxide	33.4	0.495	"	50.0		66.8	40-140		4.48	30	
alpha-Chlordane	34.8	0.495	"	50.0		69.6	40-140		6.04	30	
Methoxychlor	38.5	2.48	"	50.0		77.0	40-140		15.0	30	
Surrogate: Tetrachloro-m-xylene	*80.7*		*"*	*102*		*79.5*	*30-140*				
Surrogate: Decachlorobiphenyl	*77.2*		*"*	*100*		*76.8*	*30-140*				
Matrix Spike (BA51071-MS1)	*Source sample: 15A0781-01 (SB-1 (2.5-4.5))							Prepared: 01/23/2015 Analyzed: 01/26/2015			
4,4'-DDD	63.9	2.71	ug/kg dry	54.8	ND	117	30-150				
4,4'-DDE	61.2	2.71	"	54.8	ND	112	30-150				
4,4'-DDT	58.9	2.71	"	54.8	ND	108	30-150				
Aldrin	60.8	2.71	"	54.8	ND	111	30-150				
alpha-BHC	64.6	2.71	"	54.8	ND	118	30-150				
beta-BHC	72.5	2.71	"	54.8	ND	132	30-150				
gamma-Chlordane	64.0	2.71	"	54.8	ND	117	30-150				
delta-BHC	64.9	2.71	"	54.8	ND	119	30-150				
Dieldrin	59.4	2.71	"	54.8	ND	108	30-150				
Endosulfan I	64.5	2.71	"	54.8	ND	118	30-150				
Endosulfan II	55.3	2.71	"	54.8	ND	101	30-150				
Endosulfan sulfate	54.4	2.71	"	54.8	ND	99.3	30-150				
Endrin	68.4	2.71	"	54.8	ND	125	30-150				
Endrin aldehyde	43.0	2.71	"	54.8	ND	78.6	30-150				
Endrin ketone	68.0	2.71	"	54.8	ND	124	30-150				
gamma-BHC (Lindane)	70.1	2.71	"	54.8	ND	128	30-150				
Heptachlor	56.5	2.71	"	54.8	ND	103	30-150				
Heptachlor epoxide	60.5	2.71	"	54.8	ND	110	30-150				
alpha-Chlordane	62.7	2.71	"	54.8	ND	114	30-150				
Methoxychlor	53.2	13.6	"	54.8	ND	97.0	30-150				
Surrogate: Tetrachloro-m-xylene	*119*		*"*	*111*		*107*	*30-140*				
Surrogate: Decachlorobiphenyl	*110*		*"*	*110*		*100*	*30-140*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51071 - EPA 3545A											
Blank (BA51071-BLK1)											Prepared: 01/23/2015 Analyzed: 01/26/2015
Aroclor 1016	ND	0.0250	mg/kg wet								
Aroclor 1221	ND	0.0250	"								
Aroclor 1232	ND	0.0250	"								
Aroclor 1242	ND	0.0250	"								
Aroclor 1248	ND	0.0250	"								
Aroclor 1254	ND	0.0250	"								
Aroclor 1260	ND	0.0250	"								
Total PCBs	ND	0.0250	"								
Surrogate: Tetrachloro-m-xylene	*0.0900*		*"*	*0.102*		*88.7*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0745*		*"*	*0.100*		*74.1*	*30-140*				
LCS (BA51071-BS2)											Prepared: 01/23/2015 Analyzed: 01/26/2015
Aroclor 1016	0.480	0.0250	mg/kg wet	0.500		96.0	40-130				
Aroclor 1260	0.473	0.0250	"	0.500		94.7	40-130				
Surrogate: Tetrachloro-m-xylene	*0.0910*		*"*	*0.102*		*89.7*	*30-140*				
Surrogate: Decachlorobiphenyl	*0.0805*		*"*	*0.100*		*80.1*	*30-140*				
Batch BA51084 - EPA SW846-3510C Low Level											
Blank (BA51084-BLK1)											Prepared & Analyzed: 01/26/2015
Aroclor 1016	ND	0.0500	ug/L								
Aroclor 1221	ND	0.0500	"								
Aroclor 1232	ND	0.0500	"								
Aroclor 1242	ND	0.0500	"								
Aroclor 1248	ND	0.0500	"								
Aroclor 1254	ND	0.0500	"								
Aroclor 1260	ND	0.0500	"								
Total PCBs	ND	0.0500	"								
Surrogate: Tetrachloro-m-xylene	*0.156*		*"*	*0.203*		*76.8*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.150*		*"*	*0.201*		*74.6*	*30-120*				

Polychlorinated Biphenyls by GC/ECD - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51084 - EPA SW846-3510C Low Level											
LCS (BA51084-BS2)								Prepared & Analyzed: 01/26/2015			
Aroclor 1016	1.02	0.0500	ug/L	1.00		102	40-120				
Aroclor 1260	1.09	0.0500	"	1.00		109	40-120				
Surrogate: Tetrachloro-m-xylene	*0.205*		*"*	*0.203*		*101*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.197*		*"*	*0.201*		*98.0*	*30-120*				
LCS Dup (BA51084-BSD2)								Prepared & Analyzed: 01/26/2015			
Aroclor 1016	1.11	0.0500	ug/L	1.00		111	40-120		8.05	30	
Aroclor 1260	1.14	0.0500	"	1.00		114	40-120		4.57	30	
Surrogate: Tetrachloro-m-xylene	*0.219*		*"*	*0.203*		*108*	*30-120*				
Surrogate: Decachlorobiphenyl	*0.200*		*"*	*0.201*		*99.5*	*30-120*				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51096 - EPA 3050B											
Blank (BA51096-BLK1)											Prepared & Analyzed: 01/26/2015
Aluminum	ND	1.00	mg/kg wet								
Antimony	ND	0.500	"								
Arsenic	ND	1.00	"								
Barium	ND	1.00	"								
Beryllium	ND	0.100	"								
Cadmium	ND	0.300	"								
Calcium	ND	5.00	"								
Chromium	ND	0.500	"								
Cobalt	ND	0.500	"								
Copper	ND	0.500	"								
Iron	ND	2.00	"								
Lead	ND	0.300	"								
Magnesium	ND	5.00	"								
Manganese	ND	0.500	"								
Nickel	ND	0.500	"								
Potassium	ND	5.00	"								
Selenium	ND	1.00	"								
Silver	ND	0.500	"								
Sodium	ND	10.0	"								
Thallium	ND	1.00	"								
Vanadium	ND	1.00	"								
Zinc	ND	1.00	"								
Reference (BA51096-SRM1)											Prepared & Analyzed: 01/26/2015
Aluminum	6920	1.00	mg/kg wet	8740		79.2	41.6-158				
Antimony	101	0.500	"	108		93.1	23-255				
Arsenic	138	1.00	"	151		91.2	70.9-130				
Barium	255	1.00	"	262		97.4	73.7-126				
Beryllium	123	0.100	"	133		92.1	75.1-125				
Cadmium	136	0.300	"	152		89.6	73-126				
Calcium	5960	5.00	"	6400		93.1	73.9-126				
Chromium	106	0.500	"	117		90.3	69.7-130				
Cobalt	67.1	0.500	"	68.7		97.7	74.4-126				
Copper	68.6	0.500	"	68.6		100	73.2-129				
Iron	11300	2.00	"	12300		92.2	30.5-170				
Lead	225	0.300	"	254		88.6	75.6-125				
Magnesium	3260	5.00	"	3600		90.4	68.3-132				
Manganese	523	0.500	"	563		93.0	77.4-123				
Nickel	306	0.500	"	315		97.3	74.3-127				
Potassium	2760	5.00	"	3040		90.9	62.5-137				
Selenium	153	1.00	"	162		94.1	67.3-132				
Silver	37.7	0.500	"	44.3		85.1	66.4-124				
Sodium	792	10.0	"	746		106	56.8-143				
Thallium	232	1.00	"	259		89.8	69.5-131				
Vanadium	108	1.00	"	116		92.8	67.5-132				
Zinc	277	1.00	"	306		90.5	71.9-133				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51098 - EPA 3010A											
Blank (BA51098-BLK1)									Prepared & Analyzed: 01/26/2015		
Aluminum - Dissolved	ND	0.010	mg/L								
Antimony - Dissolved	ND	0.005	"								
Arsenic - Dissolved	ND	0.004	"								
Barium - Dissolved	ND	0.010	"								
Beryllium - Dissolved	ND	0.001	"								
Cadmium - Dissolved	ND	0.003	"								
Calcium - Dissolved	ND	0.050	"								
Chromium - Dissolved	ND	0.005	"								
Cobalt - Dissolved	ND	0.005	"								
Copper - Dissolved	ND	0.003	"								
Iron - Dissolved	ND	0.020	"								
Lead - Dissolved	ND	0.003	"								
Magnesium - Dissolved	ND	0.050	"								
Manganese - Dissolved	ND	0.005	"								
Nickel - Dissolved	ND	0.005	"								
Potassium - Dissolved	ND	0.050	"								
Selenium - Dissolved	ND	0.010	"								
Silver - Dissolved	ND	0.005	"								
Sodium - Dissolved	ND	0.100	"								
Thallium - Dissolved	ND	0.005	"								
Vanadium - Dissolved	ND	0.010	"								
Zinc - Dissolved	ND	0.010	"								
Duplicate (BA51098-DUP1)	*Source sample: 15A0781-14 (SB-1 (MW))								Prepared & Analyzed: 01/26/2015		
Aluminum - Dissolved	1.81	0.010	mg/L		1.90				4.52	20	
Antimony - Dissolved	ND	0.005	"		ND					20	
Arsenic - Dissolved	ND	0.004	"		ND					20	
Barium - Dissolved	0.186	0.010	"		0.186				0.147	20	
Beryllium - Dissolved	ND	0.001	"		ND					20	
Cadmium - Dissolved	ND	0.003	"		ND					20	
Calcium - Dissolved	88.4	0.050	"		89.2				0.903	20	
Chromium - Dissolved	ND	0.005	"		0.005					20	
Cobalt - Dissolved	0.007	0.005	"		0.008				2.83	20	
Copper - Dissolved	0.011	0.003	"		0.010				4.29	20	
Iron - Dissolved	2.18	0.020	"		2.29				5.11	20	
Lead - Dissolved	ND	0.003	"		ND					20	
Magnesium - Dissolved	47.0	0.050	"		47.4				0.767	20	
Manganese - Dissolved	2.70	0.005	"		2.69				0.596	20	
Nickel - Dissolved	0.019	0.005	"		0.018				4.02	20	
Potassium - Dissolved	7.80	0.050	"		7.88				1.07	20	
Selenium - Dissolved	ND	0.010	"		ND					20	
Silver - Dissolved	ND	0.005	"		ND					20	
Sodium - Dissolved	32.2	0.100	"		32.3				0.170	20	
Thallium - Dissolved	ND	0.005	"		ND					20	
Vanadium - Dissolved	ND	0.010	"		ND					20	
Zinc - Dissolved	0.075	0.010	"		0.076				0.636	20	

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51098 - EPA 3010A											
Matrix Spike (BA51098-MS1)	*Source sample: 15A0781-14 (SB-1 (MW))							Prepared & Analyzed: 01/26/2015			
Antimony - Dissolved	0.251	0.005	mg/L	0.250	ND	100	75-125				
Arsenic - Dissolved	2.00	0.004	"	2.00	ND	99.9	75-125				
Barium - Dissolved	2.28	0.010	"	2.00	0.186	105	75-125				
Beryllium - Dissolved	0.050	0.001	"	0.0500	ND	99.3	75-125				
Cadmium - Dissolved	0.050	0.003	"	0.0500	ND	101	75-125				
Chromium - Dissolved	0.203	0.005	"	0.200	0.005	99.0	75-125				
Cobalt - Dissolved	0.517	0.005	"	0.500	0.008	102	75-125				
Copper - Dissolved	0.270	0.003	"	0.250	0.010	104	75-125				
Iron - Dissolved	4.41	0.020	"	1.00	2.29	211	75-125	High Bias			
Lead - Dissolved	0.491	0.003	"	0.500	ND	98.1	75-125				
Manganese - Dissolved	3.24	0.005	"	0.500	2.69	111	75-125				
Nickel - Dissolved	0.534	0.005	"	0.500	0.018	103	75-125				
Selenium - Dissolved	2.12	0.010	"	2.00	ND	106	75-125				
Silver - Dissolved	0.044	0.005	"	0.0500	ND	87.7	75-125				
Thallium - Dissolved	2.00	0.005	"	2.00	ND	99.8	75-125				
Vanadium - Dissolved	0.510	0.010	"	0.500	ND	102	75-125				
Zinc - Dissolved	0.592	0.010	"	0.500	0.076	103	75-125				
Reference (BA51098-SRM1)								Prepared & Analyzed: 01/26/2015			
Aluminum - Dissolved	1.72	0.010	mg/L	1.80		95.6	82.8-115				
Antimony - Dissolved	0.403	0.005	"	0.415		97.2	79.8-117				
Arsenic - Dissolved	0.628	0.004	"	0.681		92.2	84.4-114				
Barium - Dissolved	0.520	0.010	"	0.487		107	85-115				
Beryllium - Dissolved	0.275	0.001	"	0.277		99.1	84.8-115				
Cadmium - Dissolved	0.291	0.003	"	0.293		99.4	85-115				
Chromium - Dissolved	0.120	0.005	"	0.123		97.7	85.4-115				
Cobalt - Dissolved	0.510	0.005	"	0.485		105	84.9-115				
Copper - Dissolved	0.373	0.003	"	0.378		98.7	84.9-115				
Iron - Dissolved	1.36	0.020	"	1.32		103	84.8-115				
Lead - Dissolved	0.371	0.003	"	0.362		103	85.1-115				
Manganese - Dissolved	0.320	0.005	"	0.308		104	85.1-115				
Nickel - Dissolved	0.512	0.005	"	0.526		97.3	87.3-114				
Selenium - Dissolved	0.338	0.010	"	0.364		92.9	84.9-115				
Silver - Dissolved	0.211	0.005	"	0.215		98.0	85.1-115				
Thallium - Dissolved	0.632	0.005	"	0.606		104	82.3-116				
Vanadium - Dissolved	0.747	0.010	"	0.784		95.3	84.9-115				
Zinc - Dissolved	0.706	0.010	"	0.715		98.8	85-115				

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51098 - EPA 3010A											
Reference (BA51098-SRM2)							Prepared & Analyzed: 01/26/2015				
Calcium - Dissolved	44.8	0.050	mg/L	44.2		101	86-114				
Magnesium - Dissolved	91.0	0.050	"	90.7		100	86-114				
Potassium - Dissolved	63.7	0.050	"	60.9		105	84.9-115				
Sodium - Dissolved	74.4	0.100	"	73.8		101	85-115				
Batch BA51132 - EPA 3010A											
Blank (BA51132-BLK1)							Prepared & Analyzed: 01/26/2015				
Aluminum	ND	0.010	mg/L								
Antimony	ND	0.005	"								
Arsenic	ND	0.004	"								
Barium	ND	0.010	"								
Beryllium	ND	0.001	"								
Cadmium	ND	0.003	"								
Calcium	ND	0.050	"								
Chromium	ND	0.005	"								
Cobalt	ND	0.005	"								
Copper	ND	0.003	"								
Iron	ND	0.020	"								
Lead	ND	0.003	"								
Magnesium	ND	0.050	"								
Manganese	ND	0.005	"								
Nickel	ND	0.005	"								
Potassium	ND	0.050	"								
Selenium	ND	0.010	"								
Silver	ND	0.005	"								
Sodium	ND	0.100	"								
Thallium	ND	0.005	"								
Vanadium	ND	0.010	"								
Zinc	ND	0.010	"								

Metals by ICP - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51132 - EPA 3010A											
Reference (BA51132-SRM1)								Prepared & Analyzed: 01/26/2015			
Aluminum	1.74	0.010	mg/L	1.80		96.6	82.8-115				
Antimony	0.409	0.005	"	0.415		98.6	79.8-117				
Arsenic	0.635	0.004	"	0.681		93.3	84.4-114				
Barium	0.527	0.010	"	0.487		108	85-115				
Beryllium	0.278	0.001	"	0.277		100	84.8-115				
Cadmium	0.296	0.003	"	0.293		101	85-115				
Chromium	0.123	0.005	"	0.123		99.7	85.4-115				
Cobalt	0.517	0.005	"	0.485		107	84.9-115				
Copper	0.380	0.003	"	0.378		101	84.9-115				
Iron	1.35	0.020	"	1.32		102	84.8-115				
Lead	0.376	0.003	"	0.362		104	85.1-115				
Manganese	0.324	0.005	"	0.308		105	85.1-115				
Nickel	0.518	0.005	"	0.526		98.5	87.3-114				
Selenium	0.347	0.010	"	0.364		95.4	84.9-115				
Silver	0.215	0.005	"	0.215		99.8	85.1-115				
Thallium	0.640	0.005	"	0.606		106	82.3-116				
Vanadium	0.756	0.010	"	0.784		96.4	84.9-115				
Zinc	0.714	0.010	"	0.715		99.9	85-115				
Reference (BA51132-SRM2)								Prepared & Analyzed: 01/26/2015			
Calcium	44.9	0.050	mg/L	44.2		102	86-114				
Magnesium	92.2	0.050	"	90.7		102	86-114				
Potassium	62.3	0.050	"	60.9		102	84.9-115				
Sodium	75.2	0.100	"	73.8		102	85-115				

Mercury by EPA 7000/200 Series Methods - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51075 - EPA 7473 soil											
Blank (BA51075-BLK1)									Prepared & Analyzed: 01/26/2015		
Mercury	ND	0.0300	mg/kg wet								
Reference (BA51075-SRM1)									Prepared & Analyzed: 01/26/2015		
Mercury	5.7674		mg/kg	5.76		100	71.2-129				
Batch BA51076 - EPA 7473 water											
Blank (BA51076-BLK1)									Prepared & Analyzed: 01/26/2015		
Mercury - Dissolved	ND	0.00020	mg/L								
Mercury	ND	0.00020	"								
Duplicate (BA51076-DUP1)	*Source sample: 15A0781-14 (SB-1 (MW))								Prepared & Analyzed: 01/26/2015		
Mercury - Dissolved	ND	0.00020	mg/L		ND					20	
Mercury	ND	0.00020	"		ND					20	
Matrix Spike (BA51076-MS1)	*Source sample: 15A0781-14 (SB-1 (MW))								Prepared & Analyzed: 01/26/2015		
Mercury - Dissolved	0.00202		mg/L	0.00200	ND	101	75-125				
Mercury	0.00204		mg/kg	0.00200	ND	102	75-125				
Reference (BA51076-SRM1)									Prepared & Analyzed: 01/26/2015		
Mercury	0.00242		mg/kg	0.00230		105	61.3-135				
Mercury - Dissolved	0.0024172		mg/L	0.00230		105	61.3-135				

Miscellaneous Physical Parameters - Quality Control Data

York Analytical Laboratories, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source* Result	%REC	%REC Limits	Flag	RPD	RPD Limit	Flag
Batch BA51088 - % Solids Prep											
Duplicate (BA51088-DUP1)	*Source sample: 15A0781-12 (DUP-1)								Prepared & Analyzed: 01/26/2015		
% Solids	91.7	0.100	%		91.5				0.176	20	

Volatile Analysis Sample Containers

Lab ID	Client Sample ID	Volatile Sample Container
15A0781-01	SB-1 (2.5-4.5)	40mL Vial with Stir Bar-Cool 4° C
15A0781-02	SB-1 (7-9)	40mL Vial with Stir Bar-Cool 4° C
15A0781-03	SB-2 (1.5-3.5)	40mL Vial with Stir Bar-Cool 4° C
15A0781-04	SB-2 (8-10)	40mL Vial with Stir Bar-Cool 4° C
15A0781-05	SB-3 (1-3)	40mL Vial with Stir Bar-Cool 4° C
15A0781-06	SB-4 (1.5-3.5)	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
15A0781-07	SB-3 (11-13)	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
15A0781-08	SB-4 (6-8)	40mL Vial with Stir Bar-Cool 4° C
15A0781-09	SB-5 (1-3)	40mL Vial with Stir Bar-Cool 4° C
15A0781-10	SB-5 (14-16)	40mL Vial with Stir Bar-Cool 4° C
15A0781-11	SB-6 (0-2)	40mL Vial with Stir Bar-Cool 4° C
15A0781-12	DUP-1	40mL Pre-Tared Vial + 10mL MeOH; Cool to 4° C
15A0781-13	Trip Blank	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15A0781-14	SB-1 (MW)	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15A0781-15	SB-2 (MW)	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15A0781-16	SB-3 (MW)	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15A0781-17	SB-4 (MW)	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C
15A0781-18	DUP	40mL Clear Vial (pre-pres.) HCl; Cool to 4° C

Notes and Definitions

S-08	The recovery of this surrogate was outside of QC limits.
S-07	The recovery of this surrogate was outside of RCP limits.
S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interferences.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
Rep-04	The sample was diluted due to the presence of high levels of non-target analytes resulting in elevated reporting limits.
QM-06	Due to noted non-homogeneity of the QC sample matrix, the MS/MSD did not provide reliable results for accuracy and precision. Sample results for the QC batch were accepted based on LCS/LCSD percent recoveries and RPD values.
QL-02	This LCS analyte is outside Laboratory Recovery limits due the analyte behavior using the referenced method. The reference method has certain limitations with respect to analytes of this nature.
M-MISpk	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The SRM was within acceptance limits, therefore data are acceptable.
M-LSRD	Original sample conc <50 X reporting limit.
J	Detected below the Reporting Limit but greater than or equal to the Method Detection Limit (MDL/LOD) or in the case of a TIC, the result is an estimated concentration.
EXT-EM	The sample exhibited emulsion formation during the extraction process. This may affect surrogate recoveries.
CCV-E	The value reported is ESTIMATED. The value is estimated due to its behavior during continuing calibration verification (>20% Difference for average Rf or >20% Drift for quadratic fit).
Cal-E	The value reported is ESTIMATED. The value is estimated due to its behavior during initial calibration (average Rf>20% AND correlation coefficient <0.990 for linear or quadratic fit).
B	Analyte is found in the associated analysis batch blank. For volatiles, methylene chloride and acetone are common lab contaminants. Data users should consider anything <10x the blank value as artifact.

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*	Analyte is not certified or the state of the samples origination does not offer certification for the Analyte.
ND	NOT DETECTED - the analyte is not detected at the Reported to level (LOQ/RL or LOD/MDL)
RL	REPORTING LIMIT - the minimum reportable value based upon the lowest point in the analyte calibration curve.
LOQ	LIMIT OF QUANTITATION - the minimum concentration of a target analyte that can be reported within a specified degree of confidence. This is the lowest point in an analyte calibration curve that has been subjected to all steps of the processing/analysis and verified to meet defined criteria. This is based upon NELAC 2009 Standards and applies to all analyses.
LOD	LIMIT OF DETECTION - a verified estimate of the minimum concentration of a substance in a given matrix that an analytical process can reliably detect. This is based upon NELAC 2009 Standards and applies to all analyses conducted under the auspices of EPA SW-846.
MDL	METHOD DETECTION LIMIT - a statistically derived estimate of the minimum amount of a substance an analytical system can reliably detect with a 99% confidence that the concentration of the substance is greater than zero. This is based upon 40 CFR Part 136 Appendix B and applies only to EPA 600 and 200 series methods.
Reported to	This indicates that the data for a particular analysis is reported to either the LOD/MDL, or the LOQ/RL. In cases where the "Reported to" is located above the LOD/MDL, any value between this and the LOQ represents an estimated value which is "J" flagged accordingly. This applies to volatile and semi-volatile target compounds only.
NR	Not reported
RPD	Relative Percent Difference
Wet	The data has been reported on an as-received (wet weight) basis

Low Bias — Low Bias flag indicates that the recovery of the flagged analyte is below the laboratory or regulatory lower control limit. The data user should take note that this analyte may be biased low but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

High Bias — High Bias flag indicates that the recovery of the flagged analyte is above the laboratory or regulatory upper control limit. The data user should take note that this analyte may be biased high but should evaluate multiple lines of evidence including the LCS and site-specific MS/MSD data to draw bias conclusions. In cases where no site-specific MS/MSD was requested, only the LCS data can be used to evaluate such bias.

Non-Dir. — Non-dir. flag (Non-Directional Bias) indicates that the Relative Percent Difference (RPD) (a measure of precision) among the MS and MSD data is outside the laboratory or regulatory control limit. This alerts the data user where the MS and MSD are from site-specific samples that the RPD is high due to either non-homogeneous distribution of target analyte between the MS/MSD or indicates poor reproducibility for other reasons.

If EPA SW-846 method 8270 is included herein it is noted that the target compound N-nitrosodiphenylamine (NDPA) decomposes in the gas chromatographic inlet and cannot be separated from diphenylamine (DPA). These results could actually represent 100% DPA, 100% NDPA or some combination of the two.
For this reason, York reports the combined result for n-nitrosodiphenylamine and diphenylamine for either of these compounds as a combined concentration as Diphenylamine.

If Total PCBs are detected and the target aroclors reported are "Not detected", the Total PCB value is reported due to the presence of either or both Aroclors 1262 and 1268 which are non-target aroclors for some regulatory lists.

2-chloroethylvinyl ether readily breaks down under acidic conditions. Samples that are acid preserved, including standards will exhibit breakdown. The data user should take note.

Certification for pH is no longer offered by NYDOH ELAP.

Semi-Volatile and Volatile analyses are reported down to the LOD/MDL, with values between the LOD/MDL and the LOQ being "J" flagged as estimated results.

Corrective Action: Lab Only Recvd. (3) 40ml VOA Vials + (1) 1L Amber For SB-2 (MW)

Revision Description: This report has been revised to correct sample ID numbers per client request.

YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 15A0781

YOUR Information

Company: Langan
Address: 555 Long Wharf Drive, New Haven, CT
Phone No.:
Contact Person: Justin Hall
E-Mail Address: JHall@langan.com

Report To:

Company: SAME
Address:
Phone No.:
Attention:
E-Mail Address:

Invoice To:

Company: Same
Address:
Phone No.:
Attention:
E-Mail Address:

YOUR Project ID

14011530l

Purchase Order No.

Samples from: CT ___ NY X NJ ___

Turn-Around Time

- RUSH - Same Day ☐
- RUSH - Next Day ☒
- RUSH - Two Day ☐
- RUSH - Three Day ☐
- RUSH - Four Day ☐
- Standard(5-7 Days) ☐

Report Type

- Summary Report
- Summary w/ QA Summary X
- CT RCP Package
- CTRCP DQA/DUE Pkg
- NY ASP A Package
- NY ASP B Package X
- NJDEP Red. Deliv.

Electronic Data Deliverables (EDD)

- Simple Excel X
- NYSDEC EQuIS
- EQuIS (std)
- EZ-EDD (EQuIS)
- NJDEP SRP HazSite EDD
- GIS/KEY (std)
- Other

York Regulatory Comparison
Excel Spreadsheet
Compare to the following Regs. (please fill in):
NYSDEC Unrestricted Residential

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)
Stephen Cloat
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PP13 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No Dioxins/Furans	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
SB-1 MW 2,5-4.5	1/23/15 1610	S	TCL VOC, TCL SVOC, Tal Metals, PCB, Pesticide	Terra core set, 1-Meth, 2dl, 1dry, 1-8oz Jar
SB-1 MW 7-9	1610			
SB-2 MW 1.5-3.5	1610			
SB-2 MW 8-10	1615			
SB-3 (1-3)	1620			
SB-4 (1.5-3.5)	1630			
SB-3 MW (11-13)	1625			
SB-4 6-8	1635			
SB-5 1-3	1640			
SB-5 14-16	1645			

Comments
Compare to unrestricted and restricted residential

Preservation Check those Applicable
Special Instructions
Field Filtered ☐
Lab to Filter ☐

4°C ___ Frozen ___ HCl ✓ MeOH ___ HNO_3 ✓ H_2SO_4 ___ NaOH ___
Zn Ac ___ Ascorbic Acid ___ Other ___

Samples Relinquished By — Date/Time: 1-23-15 19:45
Samples Relinquished By — Date/Time:
Samples Received By — Date/Time:
Samples Received in LAB by TC — Date/Time: 1/23/15 1945

Temperature on Receipt 3.0 °C

YORK ANALYTICAL LABORATORIES
120 RESEARCH DR.
STRATFORD, CT 06615
(203) 325-1371
FAX (203) 357-0166

Field Chain-of-Custody Record

NOTE: York's Std. Terms & Conditions are listed on the back side of this document. This document serves as your written authorization to York to proceed with the analyses requested and your signature binds you to York's Std. Terms & Conditions.

York Project No. 15A0781

YOUR Information

Company: Langan
Address: 555 Long Wharf Drive New Haven, CT
Phone No.:
Contact Person: Justin Hall
E-Mail Address: JHall@langan.com

Report To:

Company: Same
Address:
Phone No.:
Attention:
E-Mail Address:

Invoice To:

Company: Same
Address:
Phone No.:
Attention:
E-Mail Address:

YOUR Project ID

140115301

Purchase Order No.

Samples from: CT ___ NY ✓ NJ ___

Turn-Around Time

- RUSH - Same Day ☐
- RUSH - Next Day ☒
- RUSH - Two Day ☐
- RUSH - Three Day ☐
- RUSH - Four Day ☐
- Standard(5-7 Days) ☐

Report Type

- Summary Report
- Summary w/ QA Summary X
- CT RCP Package
- CTRCP DQA/DUE Pkg
- NY ASP A Package
- NY ASP B Package X
- NJDEP Red. Deliv.

Electronic Data Deliverables (EDD)

- Simple Excel X
- NYSDEC EQuIS
- EQuIS (std)
- EZ-EDD (EQuIS)
- NJDEP SRP HazSite EDD
- GIS/KEY (std)
- Other
- **York Regulatory Comparison**
- **Excel Spreadsheet**

Compare to the following Regs. (please fill in):
NYSDEC Unres + restricted residential

Print Clearly and Legibly. All Information must be complete. Samples will NOT be logged in and the turn-around time clock will not begin until any questions by York are resolved.

Samples Collected/Authorized By (Signature)

Stephen Clouet
Name (printed)

Matrix Codes
S - soil
Other - specify(oil, etc.)
WW - wastewater
GW - groundwater
DW - drinking water
Air-A - ambient air
Air-SV - soil vapor

Volatiles		Semi-Vols.	Pest/PCB/Herb	Metals	Misc. Org.	Full Lists	Misc.
8260 full	TICs	8270 or 625	8082PCB	RCRA8	TPH GRO	Pri.Poll.	Corrosivity
624	Site Spec.	STARS list	8081Pest	PPJ3 list	TPH DRO	TCL Organics	Reactivity
STARS list	Nassau Co.	BN Only	8151Herb	TAL	CT ETPH	TAL Met/CN	Ignitability
BTEX	Suffolk Co.	Acids Only	CT RCP	CT15 list	NY 310-13	Full TCLP	Flash Point
MTBE	Ketones	PAH list	App. IX	TAGM list	TPH 1664	Full App. IX	Sieve Anal.
TCL list	Oxygenates	TAGM list	Site Spec.	NJDEP list	Air TO14A	Part 360-Routine	Heterotrophs
TAGM list	TCLP list	CT RCP list	SPLP or TCLP	Total	Air TO15	Part 360-Baseline	TOX
CT RCP list	524.2	TCL list	TCLP Pest	Dissolved	Air STARS	Part 360-Expanded No Dioxins/Furans	BTU/lb.
Arom. only	502.2	NJDEP list	TCLP Herb	SPLP or TCLP	Air VPH	Part 360-Expanded Full List	Aquatic Tox.
Halog.only	NJDEP list	App. IX	Chlordane	Indiv. Metals	Air TICs	NYCDEP Sewer	TOC
App.IX list	SPLP or TCLP	TCLP BNA	608 Pest	LIST Below	Methane	NYSDEC Sewer	Asbestos
8021B list		SPLP or TCLP	608 PCB		Helium	TAGM	Silica

Sample Identification	Date/Time Sampled	Sample Matrix	Choose Analyses Needed from the Menu Above and Enter Below	Container Description(s)
SB-6 (0-2)	1/23/15 1550	S	TCL VOC, TCL SVOC, TAL Metals, PCB, Pesticide	Terra Core Sat, 1-Meth,
DUP-1	"	S	↓ ↓ ↓ ↓ ↓	2DI, 1dry, 1-8oz, Jar
trip blank	↓	aq	VOCs	2-40mL VOA
SB-1 (MW)	1/23/15 1635	GW	TCL VOC, TCL SVOC, TAL Metals Filtered/unfiltered, PCB	3VOA, 2-1L Amb, 2-250mL
SB-2 (MW)	1/23/15 1550	GW	TCL VOC, TCL SVOC, TAL Metals Filtered/unfiltered, PCB	1-1L Amber
SB-3 (MW)	↓ 1425	GW	TCL VOC, TCL SVOC, TAL Metals Filtered/unfilt, PCB	3-1L Amber, 2-250mL
SB-4 (MW)	↓ 17:25	GW	↓ ↓ ↓ ↓ ↓	2-1L Amber, 2-250mL
DUP	1/23/15 —	GW	↓ ↓ ↓ ↓ ↓	3VOA, 3-1L Amb, 2-250mL

Comments
Compare to unrestricted and restricted residential

Preservation Check those Applicable
4°C ___ Frozen ___ HCl ✓ MeOH ___ HNO_3 ✓ H_2SO_4 ___ NaOH ___
ZnAc ___ Ascorbic Acid ___ Other ___

Special Instructions
Field Filtered ☐
Lab to Filter ☐

Samples Relinquished By — Date/Time: 1-23-15 19:45
Samples Relinquished By — Date/Time:
Samples Received By — Date/Time:
Samples Received in LAB by TC — Date/Time: 1/23/15 1945

Temperature on Receipt 3.0 °C

ATTACHMENT G

ANALYTICAL LABORATORY NYSDOH CERTIFICATION

NEW YORK STATE DEPARTMENT OF HEALTH
WADSWORTH CENTER

Expires 12:01 AM April 01, 2015
Issued April 01, 2014
Revised December 11, 2014

CERTIFICATE OF APPROVAL FOR LABORATORY SERVICE

Issued in accordance with and pursuant to section 502 Public Health Law of New York State

MR. ROBERT Q. BRADLEY
YORK ANALYTICAL LABORATORIES INC
120 RESEARCH DRIVE
STRATFORD, CT 06615

NY Lab Id No: 10854

is hereby APPROVED as an Environmental Laboratory in conformance with the National Environmental Laboratory Accreditation Conference Standards (2003) for the category ENVIRONMENTAL ANALYSES SOLID AND HAZARDOUS WASTE
All approved analytes are listed below:

Acrylates	
Acrolein (Propenal)	EPA 8260C
Acrylonitrile	EPA 8260C
Methyl methacrylate	EPA 8260C
Amines	
1,2-Diphenylhydrazine	EPA 8270D
2-Nitroaniline	EPA 8270D
3-Nitroaniline	EPA 8270D
4-Chloroaniline	EPA 8270D
4-Nitroaniline	EPA 8270D
Aniline	EPA 8270D
Carbazole	EPA 8270D
Diphenylamine	EPA 8270D
Benzidines	
3,3'-Dichlorobenzidine	EPA 8270D
Benzidine	EPA 8270D
Characteristic Testing	
Corrosivity	EPA 9045D
Ignitability	EPA 1010A
Synthetic Precipitation Leaching Proc.	EPA 1312
TCLP	EPA 1311
Chlorinated Hydrocarbon Pesticides	
4,4'-DDD	EPA 8081B
4,4'-DDE	EPA 8081B
4,4'-DDT	EPA 8081B
Chlorinated Hydrocarbon Pesticides	
Aldrin	EPA 8081B
alpha-BHC	EPA 8081B
alpha-Chlordane	EPA 8081B
Atrazine	EPA 8270D
beta-BHC	EPA 8081B
Chlordane Total	EPA 8081B
delta-BHC	EPA 8081B
Dieldrin	EPA 8081B
Endosulfan I	EPA 8081B
Endosulfan II	EPA 8081B
Endosulfan sulfate	EPA 8081B
Endrin	EPA 8081B
Endrin aldehyde	EPA 8081B
Endrin Ketone	EPA 8081B
gamma-Chlordane	EPA 8081B
Heptachlor	EPA 8081B
Heptachlor epoxide	EPA 8081B
Lindane	EPA 8081B
Methoxychlor	EPA 8081B
Toxaphene	EPA 8081B
Chlorinated Hydrocarbons	
1,2,3-Trichlorobenzene	EPA 8260C
1,2,4,5-Tetrachlorobenzene	EPA 8270D
1,2,4-Trichlorobenzene	EPA 8270D
2-Chloronaphthalene	EPA 8270D

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Chlorinated Hydrocarbons	
Hexachlorobenzene	EPA 8270D
Hexachlorobutadiene	EPA 8270D
Hexachlorocyclopentadiene	EPA 8270D
Hexachloroethane	EPA 8270D
Chlorophenoxy Acid Pesticides	
2,4,5-T	EPA 8151A
2,4,5-TP (Silvex)	EPA 8151A
2,4-D	EPA 8151A
Dicamba	EPA 8151A
Haloethers	
4-Bromophenylphenyl ether	EPA 8270D
4-Chlorophenylphenyl ether	EPA 8270D
Bis(2-chloroethoxy)methane	EPA 8270D
Bis(2-chloroethyl)ether	EPA 8270D
Bis(2-chloroisopropyl) ether	EPA 8270D
Metals I	
Barium, Total	EPA 6010C
	EPA 6020A
Cadmium, Total	EPA 6010C
	EPA 6020A
Calcium, Total	EPA 6010C
Chromium, Total	EPA 6010C
	EPA 6020A
Copper, Total	EPA 6010C

Metals I	
Copper, Total	EPA 6020A
Iron, Total	EPA 6010C
Lead, Total	EPA 6010C
	EPA 6020A
Magnesium, Total	EPA 6010C
Manganese, Total	EPA 6010C
	EPA 6020A
Nickel, Total	EPA 6010C
	EPA 6020A
Potassium, Total	EPA 6010C
Silver, Total	EPA 6010C
	EPA 6020A
Sodium, Total	EPA 6010C
Metals II	
Aluminum, Total	EPA 6010C
	EPA 6020A
Antimony, Total	EPA 6010C
	EPA 6020A
Arsenic, Total	EPA 6010C
	EPA 6020A
Beryllium, Total	EPA 6010C
	EPA 6020A
Chromium VI	EPA 7196A
Mercury, Total	EPA 7471B
	EPA 7473

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Metals II	
Selenium, Total	EPA 6010C
	EPA 6020A
Vanadium, Total	EPA 6010C
	EPA 6020A
Zinc, Total	EPA 6010C
	EPA 6020A
Metals III	
Cobalt, Total	EPA 6010C
	EPA 6020A
Molybdenum, Total	EPA 6020A
Thallium, Total	EPA 6010C
	EPA 6020A
Tin, Total	EPA 6020A
Titanium, Total	EPA 6020A
Miscellaneous	
Boron, Total	EPA 6020A
Cyanide, Total	EPA 9014
Extractable Organic Halides	EPA 9023
Nitroaromatics and Isophorone	
2,4-Dinitrotoluene	EPA 8270D
2,6-Dinitrotoluene	EPA 8270D
Isophorone	EPA 8270D
Nitrobenzene	EPA 8270D
Pyridine	EPA 8270D
Nitrosoamines	
N-Nitrosodimethylamine	EPA 8270D
N-Nitrosodi-n-propylamine	EPA 8270D
N-Nitrosodiphenylamine	EPA 8270D
Petroleum Hydrocarbons	
Diesel Range Organics	EPA 8015D
Gasoline Range Organics	EPA 8260C
Phthalate Esters	
Benzyl butyl phthalate	EPA 8270D
Bis(2-ethylhexyl) phthalate	EPA 8270D
Diethyl phthalate	EPA 8270D
Dimethyl phthalate	EPA 8270D
Di-n-butyl phthalate	EPA 8270D
Di-n-octyl phthalate	EPA 8270D
Polychlorinated Biphenyls	
PCB-1016	EPA 8082A
PCB-1221	EPA 8082A
PCB-1232	EPA 8082A
PCB-1242	EPA 8082A
PCB-1248	EPA 8082A
PCB-1254	EPA 8082A
PCB-1260	EPA 8082A
PCB-1262	EPA 8082A
PCB-1268	EPA 8082A
PCBs in Oil	EPA 8082A

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Polynuclear Aromatic Hydrocarbons

Acenaphthene	EPA 8270D
Acenaphthylene	EPA 8270D
Anthracene	EPA 8270D
Benzo(a)anthracene	EPA 8270D
Benzo(a)pyrene	EPA 8270D
Benzo(b)fluoranthene	EPA 8270D
Benzo(ghi)perylene	EPA 8270D
Benzo(k)fluoranthene	EPA 8270D
Chrysene	EPA 8270D
Dibenzo(a,h)anthracene	EPA 8270D
Fluoranthene	EPA 8270D
Fluorene	EPA 8270D
Indeno(1,2,3-cd)pyrene	EPA 8270D
Naphthalene	EPA 8270D
Phenanthrene	EPA 8270D
Pyrene	EPA 8270D

Priority Pollutant Phenols

2,3,4,6 Tetrachlorophenol	EPA 8270D
2,4,5-Trichlorophenol	EPA 8270D
2,4,6-Trichlorophenol	EPA 8270D
2,4-Dichlorophenol	EPA 8270D
2,4-Dimethylphenol	EPA 8270D
2,4-Dinitrophenol	EPA 8270D
2-Chlorophenol	EPA 8270D
2-Methyl-4,6-dinitrophenol	EPA 8270D

Priority Pollutant Phenols

2-Methylphenol	EPA 8270D
2-Nitrophenol	EPA 8270D
4-Chloro-3-methylphenol	EPA 8270D
4-Methylphenol	EPA 8270D
4-Nitrophenol	EPA 8270D
Pentachlorophenol	EPA 8270D
Phenol	EPA 8270D

Semi-Volatile Organics

1,1'-Biphenyl	EPA 8270D
1,2-Dichlorobenzene, Semi-volatile	EPA 8270D
1,3-Dichlorobenzene, Semi-volatile	EPA 8270D
1,4-Dichlorobenzene, Semi-volatile	EPA 8270D
2-Methylnaphthalene	EPA 8270D
Acetophenone	EPA 8270D
Benzaldehyde	EPA 8270D
Benzoic Acid	EPA 8270D
Benzyl alcohol	EPA 8270D
Caprolactam	EPA 8270D
Dibenzofuran	EPA 8270D

Volatile Aromatics

1,2,4-Trichlorobenzene, Volatile	EPA 8260C
1,2,4-Trimethylbenzene	EPA 8260C
1,2-Dichlorobenzene	EPA 8260C
1,3,5-Trimethylbenzene	EPA 8260C
1,3-Dichlorobenzene	EPA 8260C

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Volatile Aromatics	
1,4-Dichlorobenzene	EPA 8260C
2-Chlorotoluene	EPA 8260C
4-Chlorotoluene	EPA 8260C
Benzene	EPA 8260C
Bromobenzene	EPA 8260C
Chlorobenzene	EPA 8260C
Ethyl benzene	EPA 8260C
Isopropylbenzene	EPA 8260C
m/p-Xylenes	EPA 8260C
Naphthalene, Volatile	EPA 8260C
n-Butylbenzene	EPA 8260C
n-Propylbenzene	EPA 8260C
o-Xylene	EPA 8260C
p-Isopropyltoluene (P-Cymene)	EPA 8260C
sec-Butylbenzene	EPA 8260C
Styrene	EPA 8260C
tert-Butylbenzene	EPA 8260C
Toluene	EPA 8260C
Total Xylenes	EPA 8260C
Volatile Halocarbons	
1,1,1,2-Tetrachloroethane	EPA 8260C
1,1,1-Trichloroethane	EPA 8260C
1,1,2,2-Tetrachloroethane	EPA 8260C
1,1,2-Trichloro-1,2,2-Trifluoroethane	EPA 8260C
1,1,2-Trichloroethane	EPA 8260C

Volatile Halocarbons	
1,1-Dichloroethane	EPA 8260C
1,1-Dichloroethene	EPA 8260C
1,1-Dichloropropene	EPA 8260C
1,2,3-Trichloropropane	EPA 8260C
1,2-Dibromo-3-chloropropane	EPA 8260C
1,2-Dibromoethane	EPA 8260C
1,2-Dichloroethane	EPA 8260C
1,2-Dichloropropane	EPA 8260C
1,3-Dichloropropane	EPA 8260C
2,2-Dichloropropane	EPA 8260C
2-Chloroethylvinyl ether	EPA 8260C
Bromochloromethane	EPA 8260C
Bromodichloromethane	EPA 8260C
Bromoform	EPA 8260C
Bromomethane	EPA 8260C
Carbon tetrachloride	EPA 8260C
Chloroethane	EPA 8260C
Chloroform	EPA 8260C
Chloromethane	EPA 8260C
cis-1,2-Dichloroethene	EPA 8260C
cis-1,3-Dichloropropene	EPA 8260C
Dibromochloromethane	EPA 8260C
Dibromomethane	EPA 8260C
Dichlorodifluoromethane	EPA 8260C
Hexachlorobutadiene, Volatile	EPA 8260C
Methylene chloride	EPA 8260C

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NELAP RECOGNIZED ACCREDITATION BODY

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All approved analytes are listed below:

Volatile Halocarbons	
Tetrachloroethene	EPA 8260C
trans-1,2-Dichloroethene	EPA 8260C
trans-1,3-Dichloropropene	EPA 8260C
Trichloroethene	EPA 8260C
Trichlorofluoromethane	EPA 8260C
Vinyl chloride	EPA 8260C
Volatile Organics	
1,4-Dioxane	EPA 8260C
2-Butanone (Methylethyl ketone)	EPA 8260C
2-Hexanone	EPA 8260C
4-Methyl-2-Pentanone	EPA 8260C
Acetone	EPA 8260C
Carbon Disulfide	EPA 8260C
Cyclohexane	EPA 8260C
Methyl acetate	EPA 8260C
Methyl cyclohexane	EPA 8260C
Methyl tert-butyl ether	EPA 8260C
tert-butyl alcohol	EPA 8260C
Vinyl acetate	EPA 8260C
Sample Preparation Methods	
	EPA 5035A-L
	EPA 5035A-H
	EPA 3580A
	EPA 3010A
	EPA 3050B
Sample Preparation Methods	
	EPA 3550C
	EPA 3545A
	EPA 3060A
	EPA 9010C

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NELAP RECOGNIZED TNI ACCREDITATION BODY

APPENDIX D: TRANSPORTATION

Figure D-1

WEEKDAY AM PEAK HOUR - INCREMENTAL VEHICLE TRIPS

EAST 241ST STREET REZONING

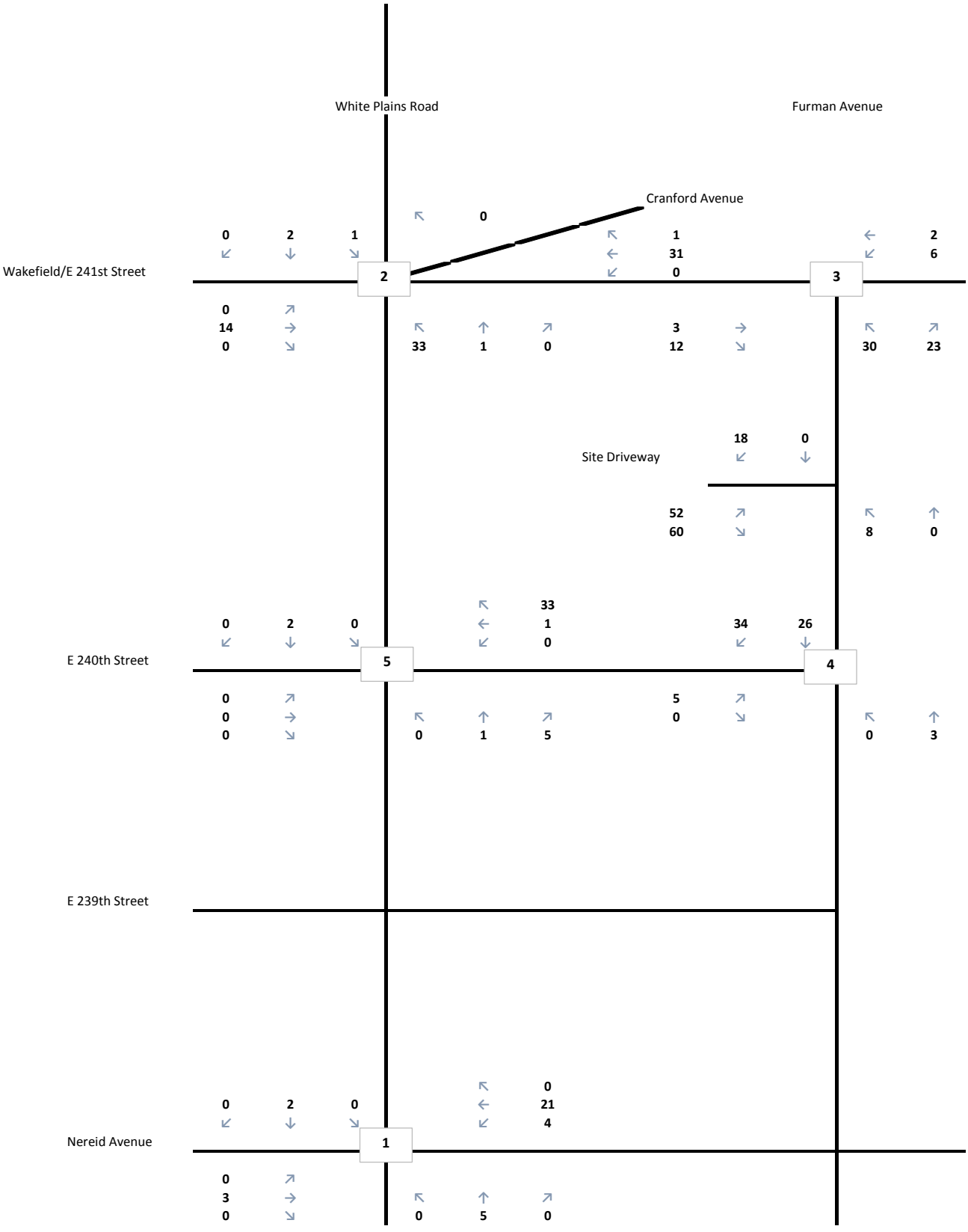


Figure D-2

WEEKDAY MIDDAY PEAK HOUR- INCREMENTAL VEHICLE TRIPS

EAST 241ST STREET REZONING

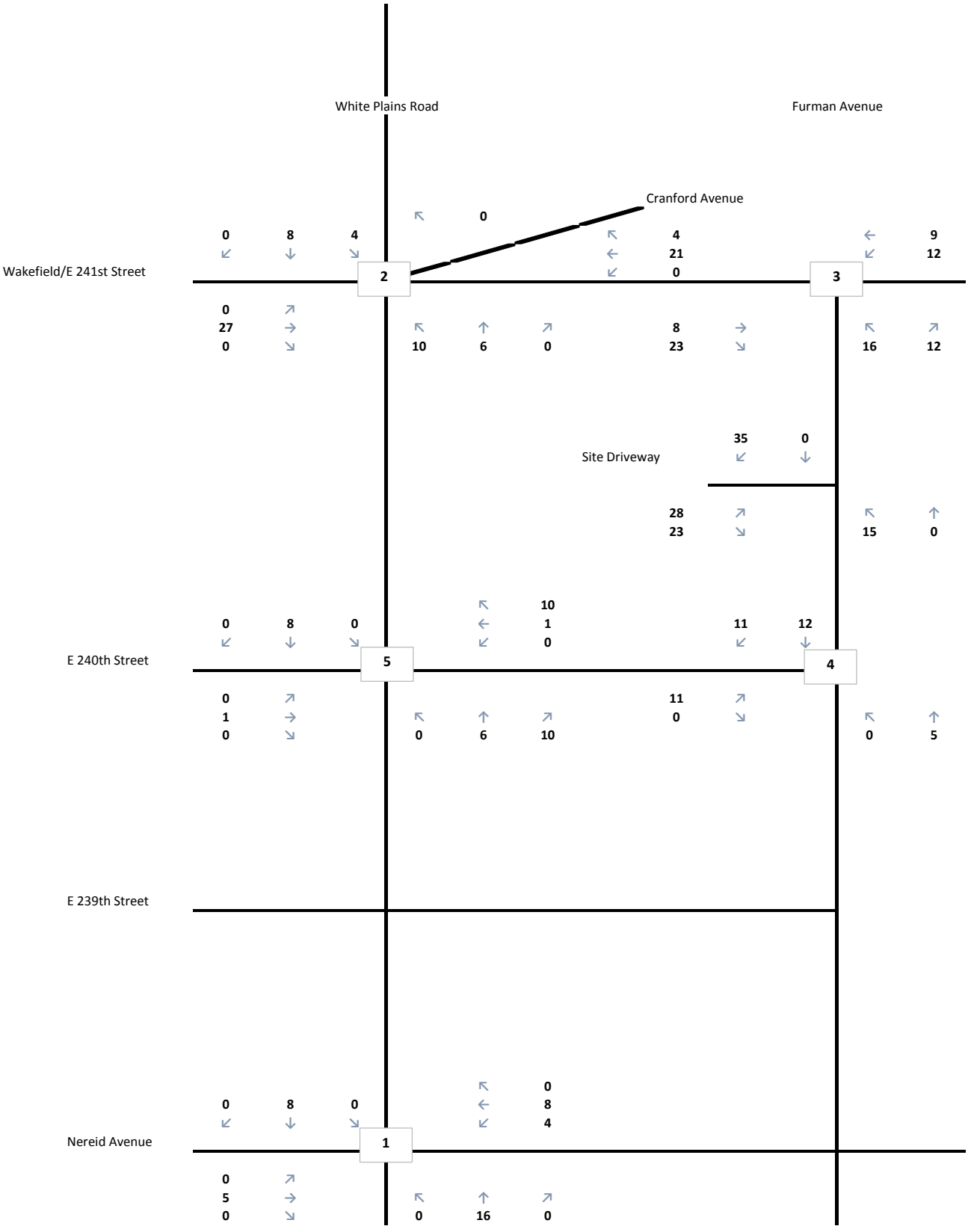


Figure D-3

WEEKDAY PM PEAK HOUR - INCREMENTAL VEHICLE TRIPS

EAST 241ST STREET REZONING

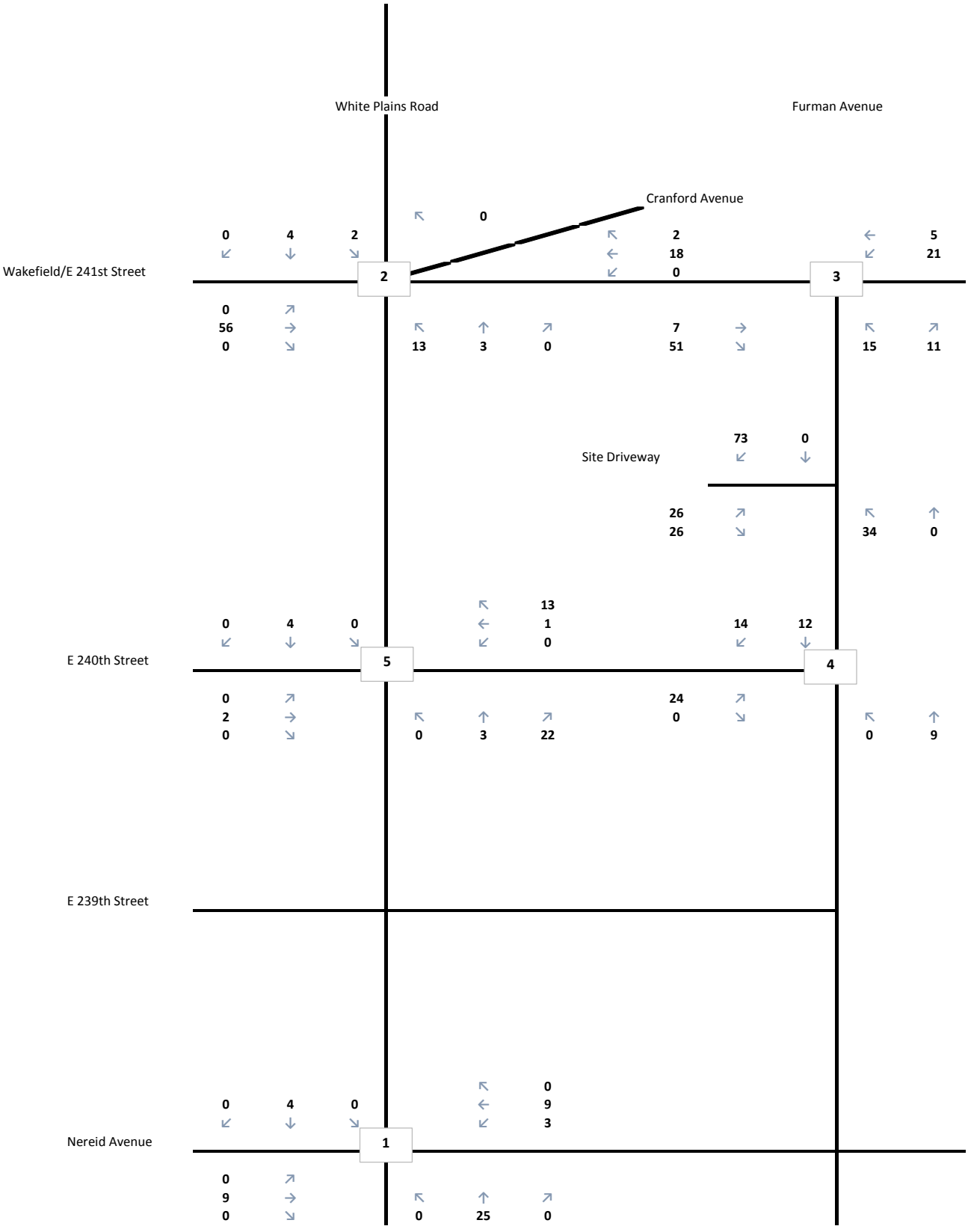


Figure D-4

SATURDAY MIDDAY PEAK HOUR - INCREMENTAL VEHICLE TRIPS
EAST 241ST STREET REZONING

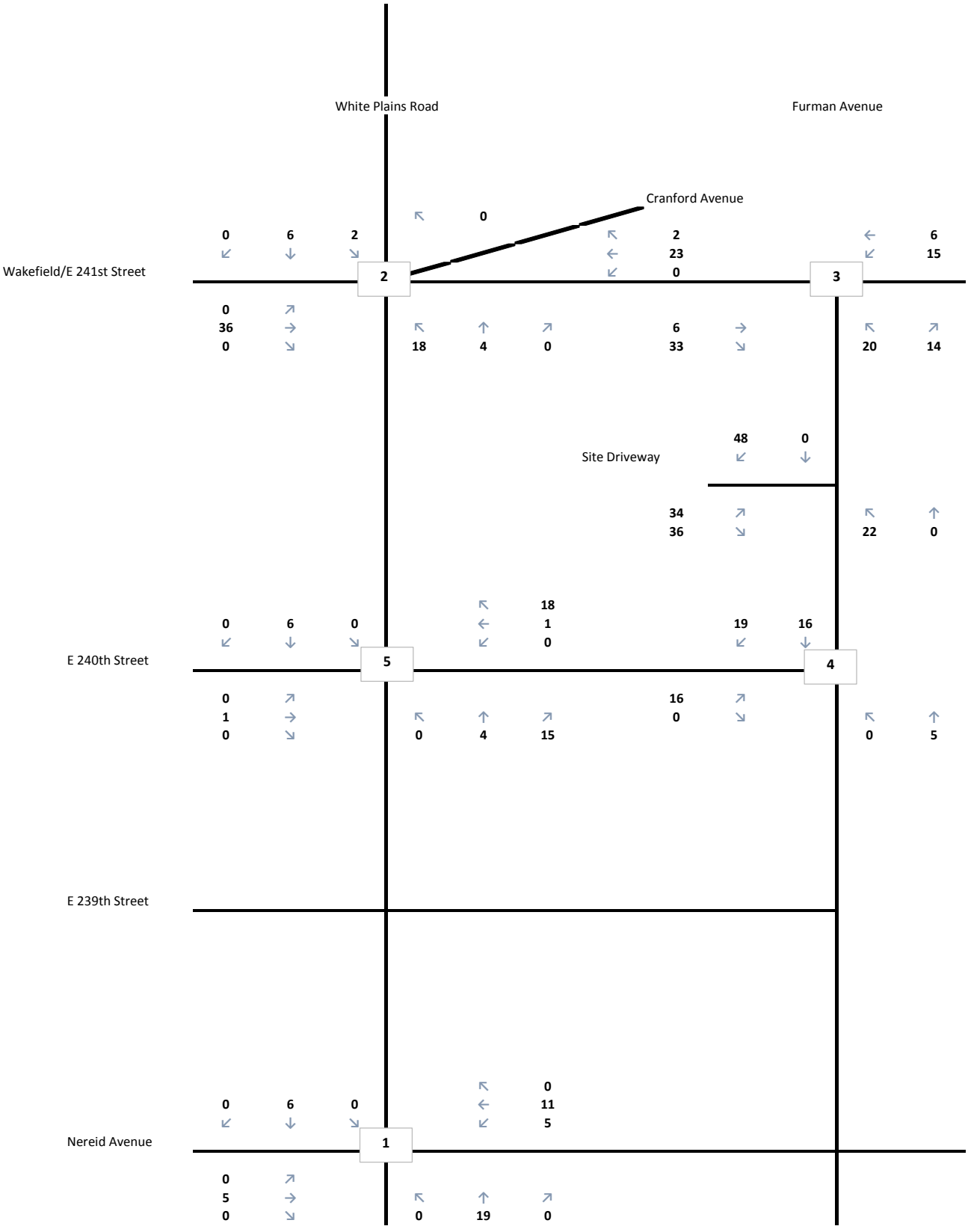


Figure D-5

WEEKDAY AM PEAK HOUR - INCREMENTAL PEDESTRIAN TRIPS
EAST 241ST STREET REZONING

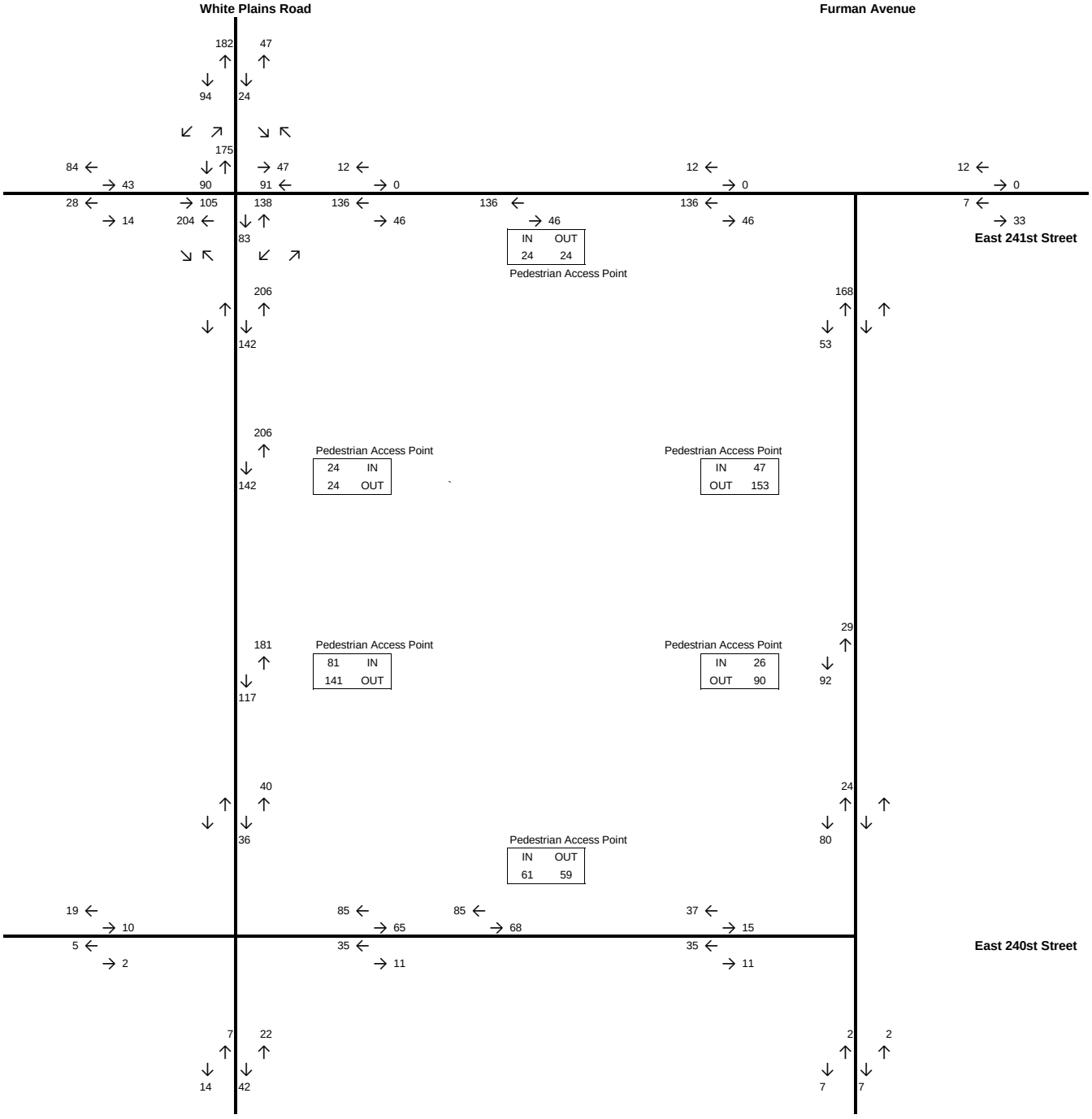


Figure D-6

WEEKDAY MIDDAY PEAK HOUR - INCREMENTAL PEDESTRIAN TRIPS

EAST 241ST STREET REZONING

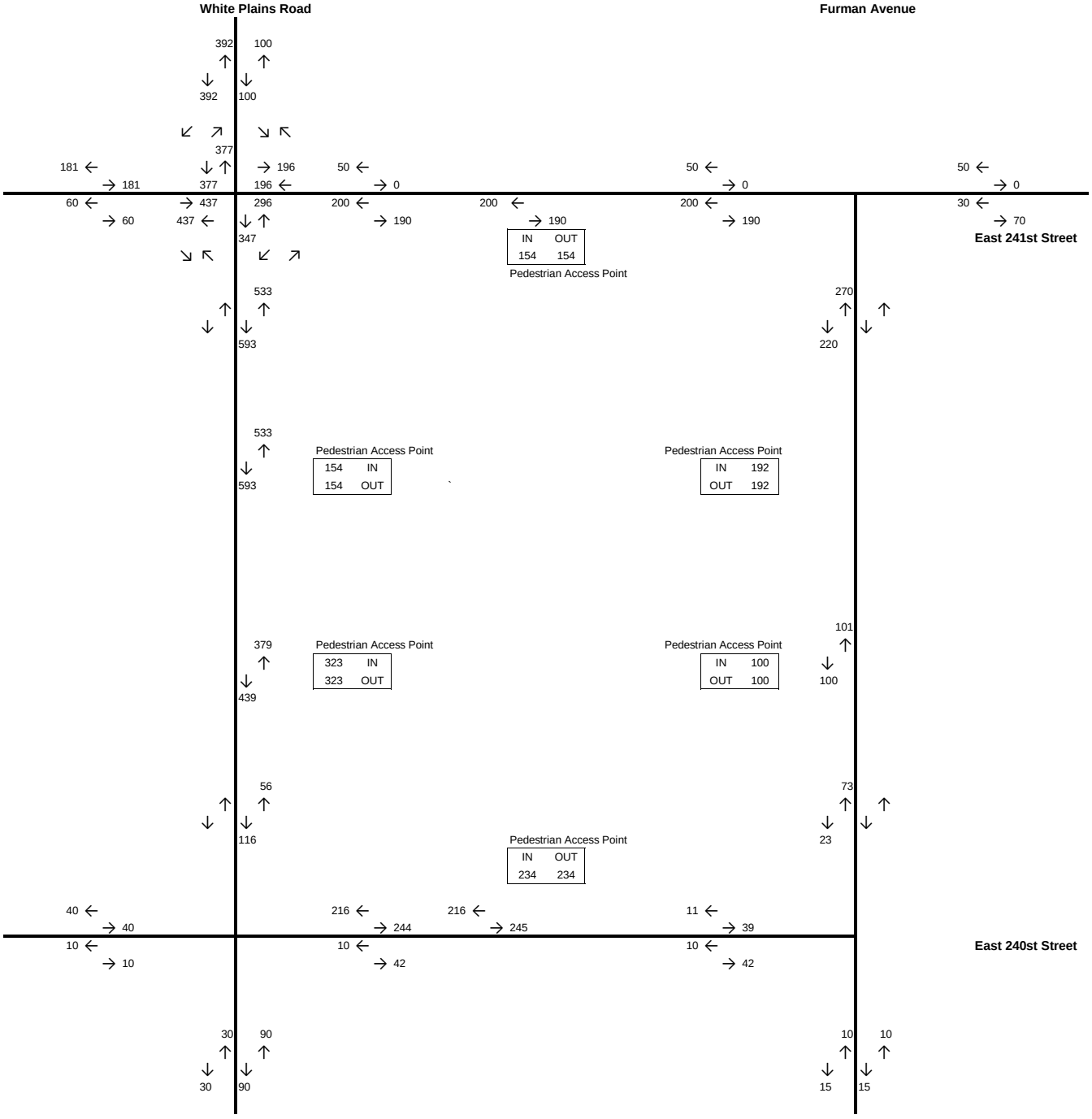


Figure D-7

WEEKDAY PM PEAK HOUR - INCREMENTAL PEDESTRIAN TRIPS

EAST 241ST STREET REZONING

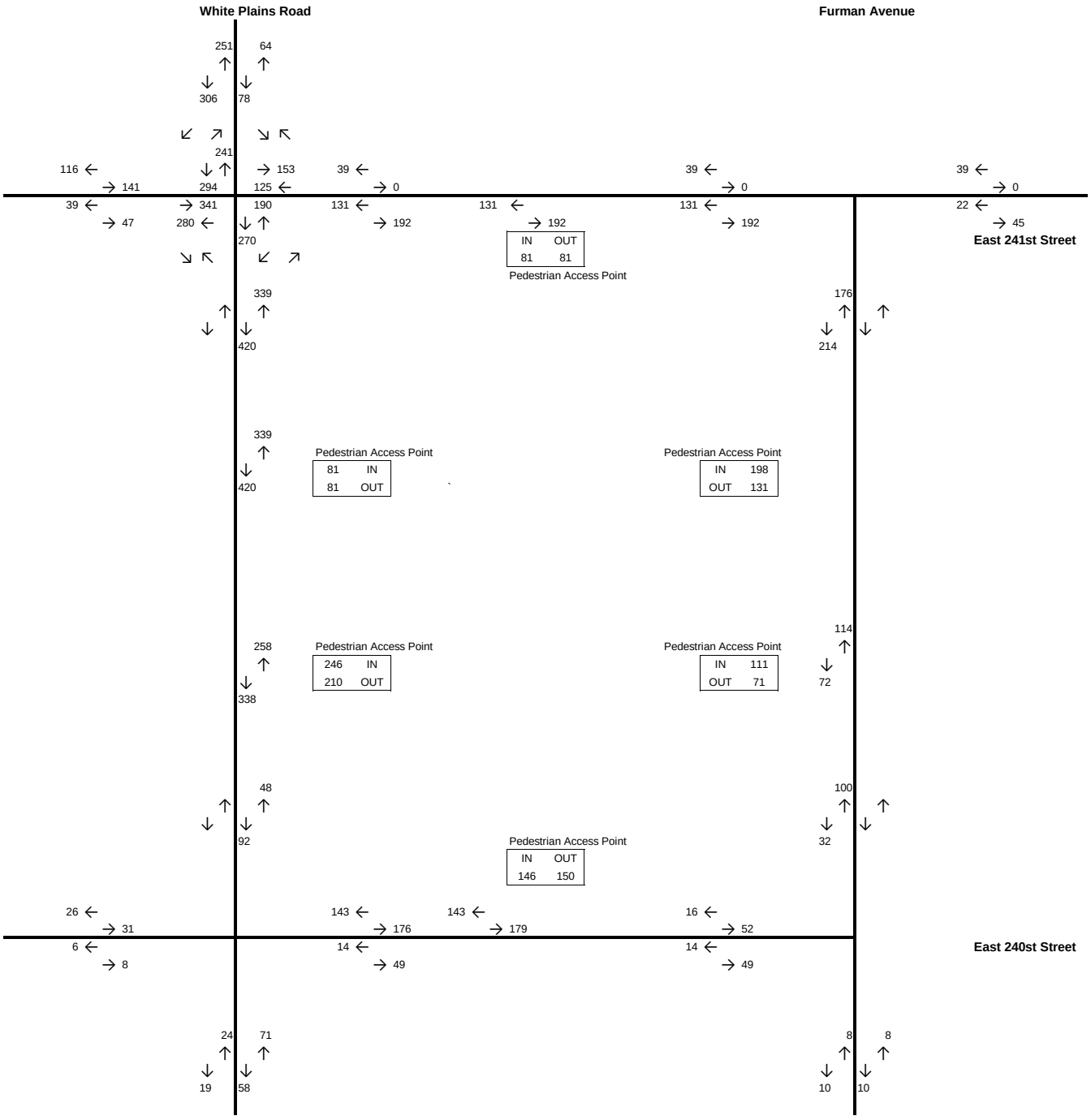


Figure D-8

SATURDAY MIDDAY PEAK HOUR - INCREMENTAL PEDESTRIAN TRIPS

EAST 241ST STREET REZONING

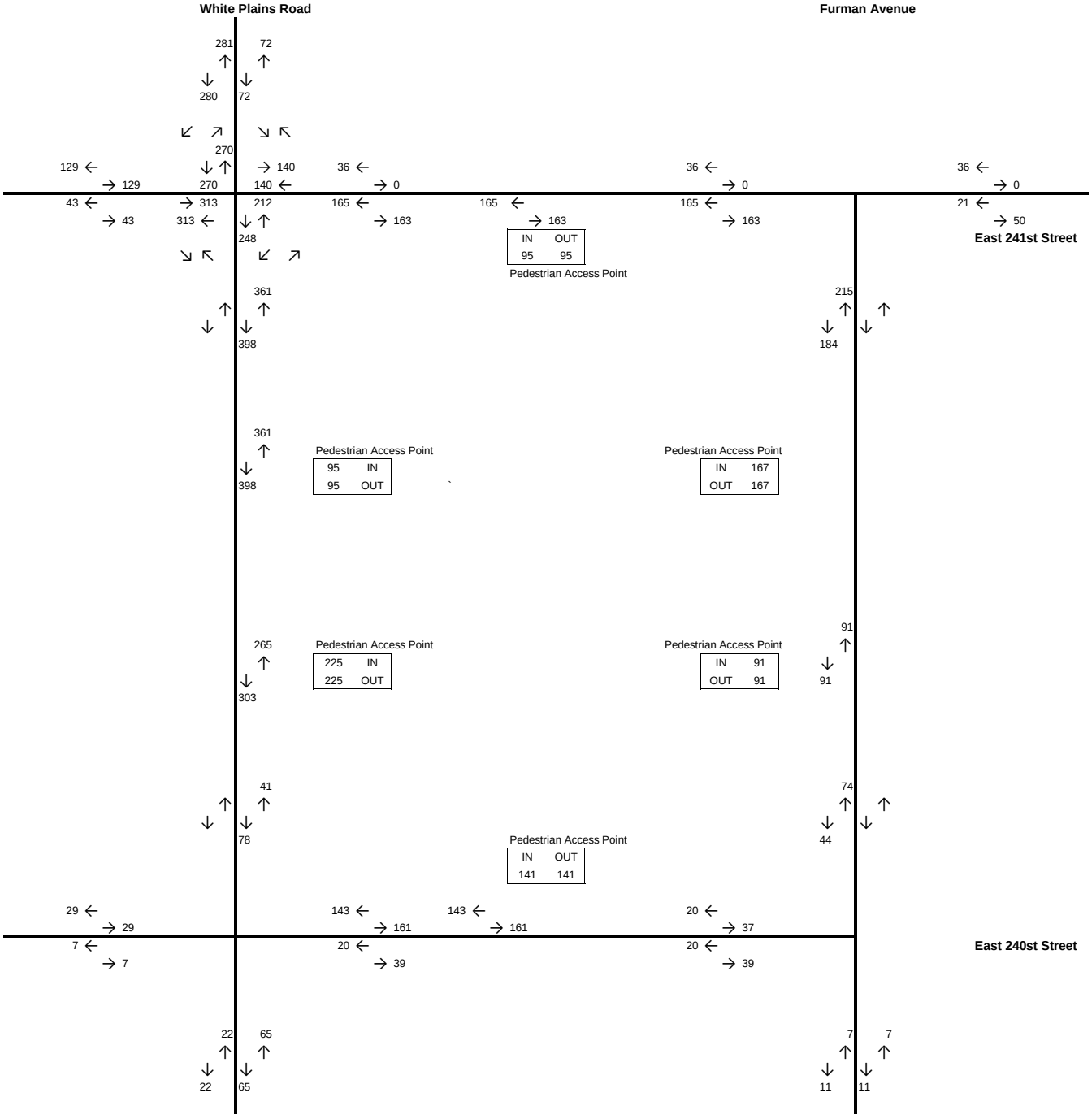


Figure D-9

WEEKDAY AM PEAK HOUR - EXISTING TRAFFIC VOLUMES (2017)

EAST 241ST STREET REZONING

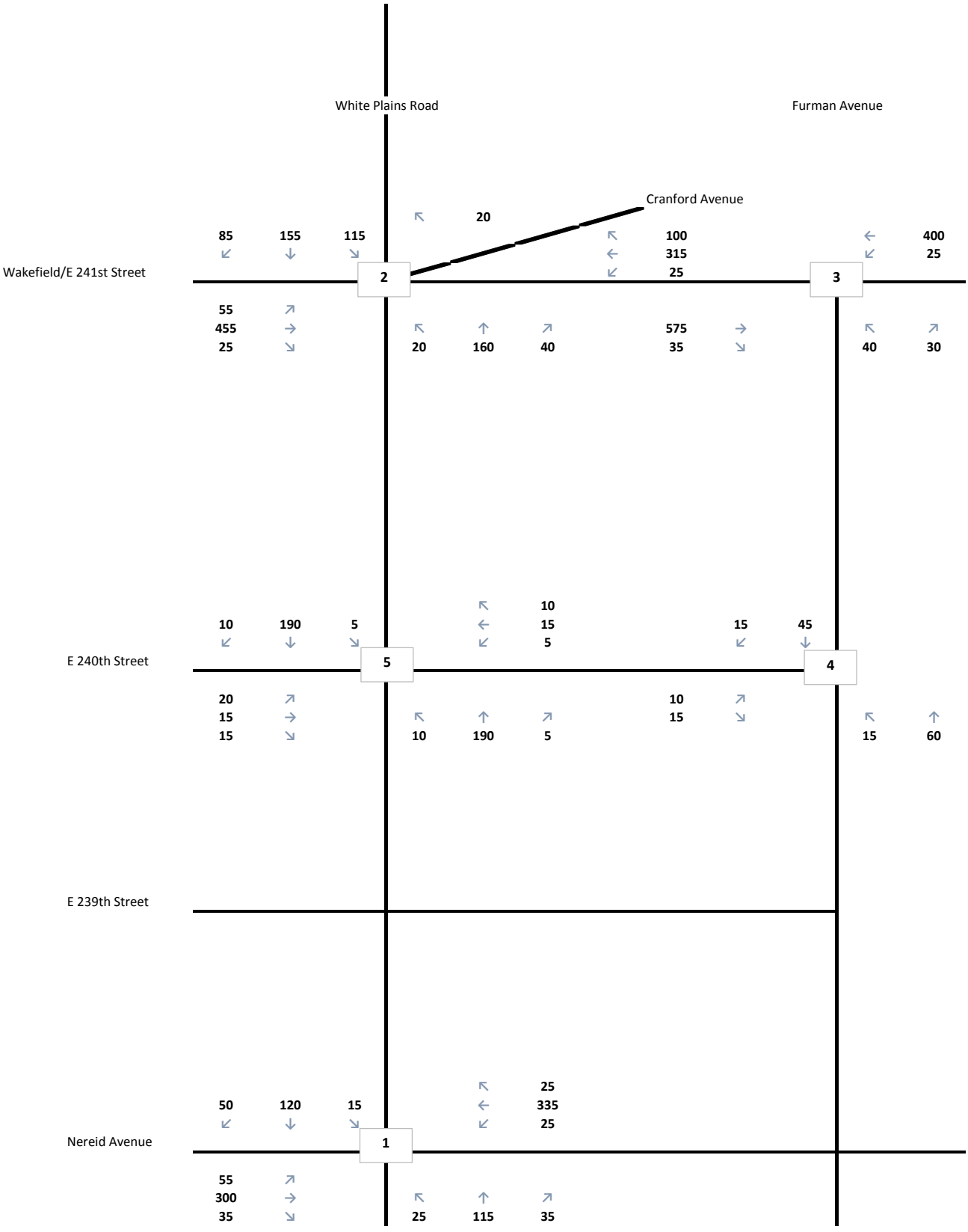


Figure D-10

WEEKDAY MIDDAY PEAK HOUR - EXISTING TRAFFIC VOLUMES (2017)

EAST 241ST STREET REZONING

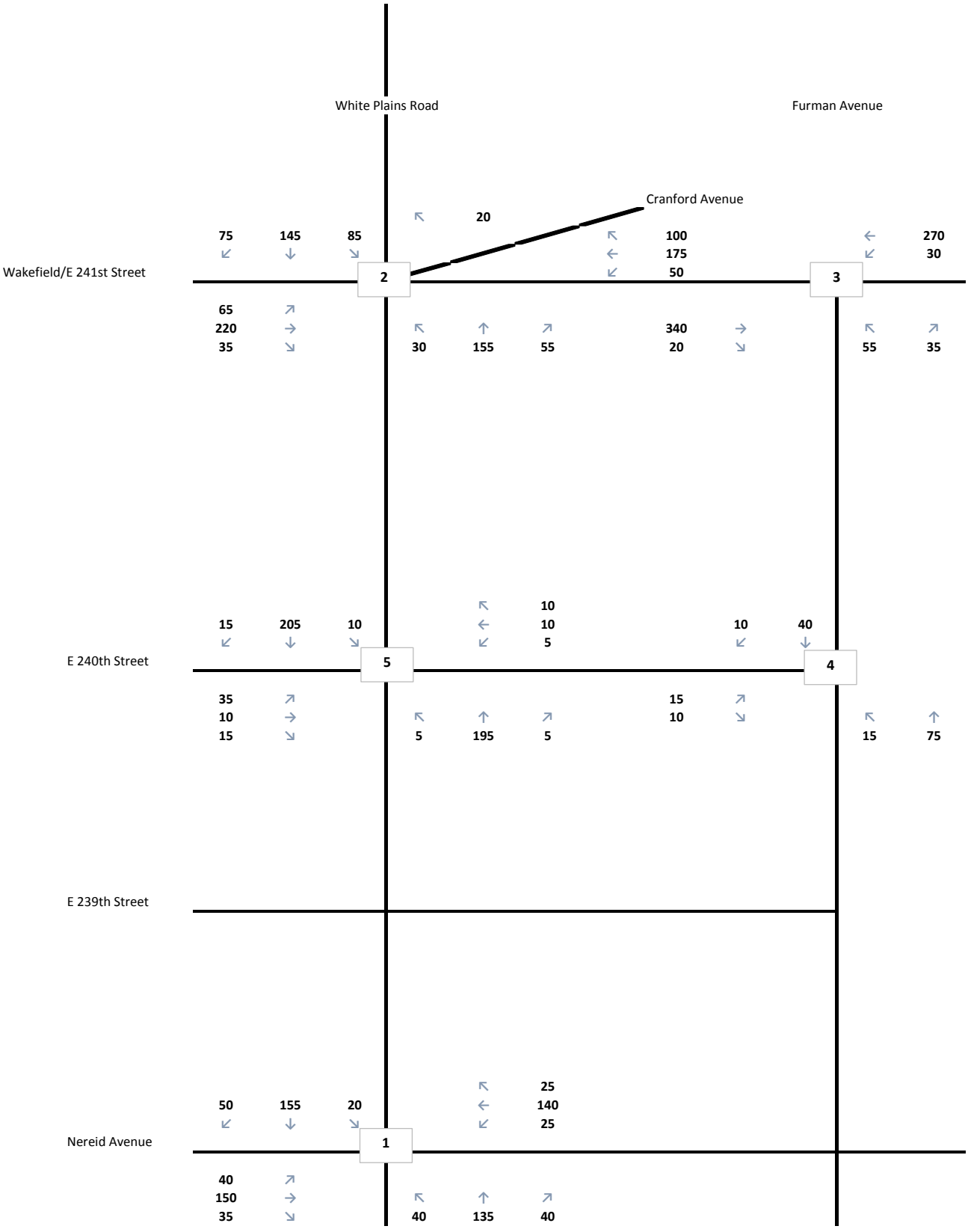


Figure D-11

WEEKDAY PM PEAK HOUR - EXISTING TRAFFIC VOLUMES (2017)

EAST 241ST STREET REZONING

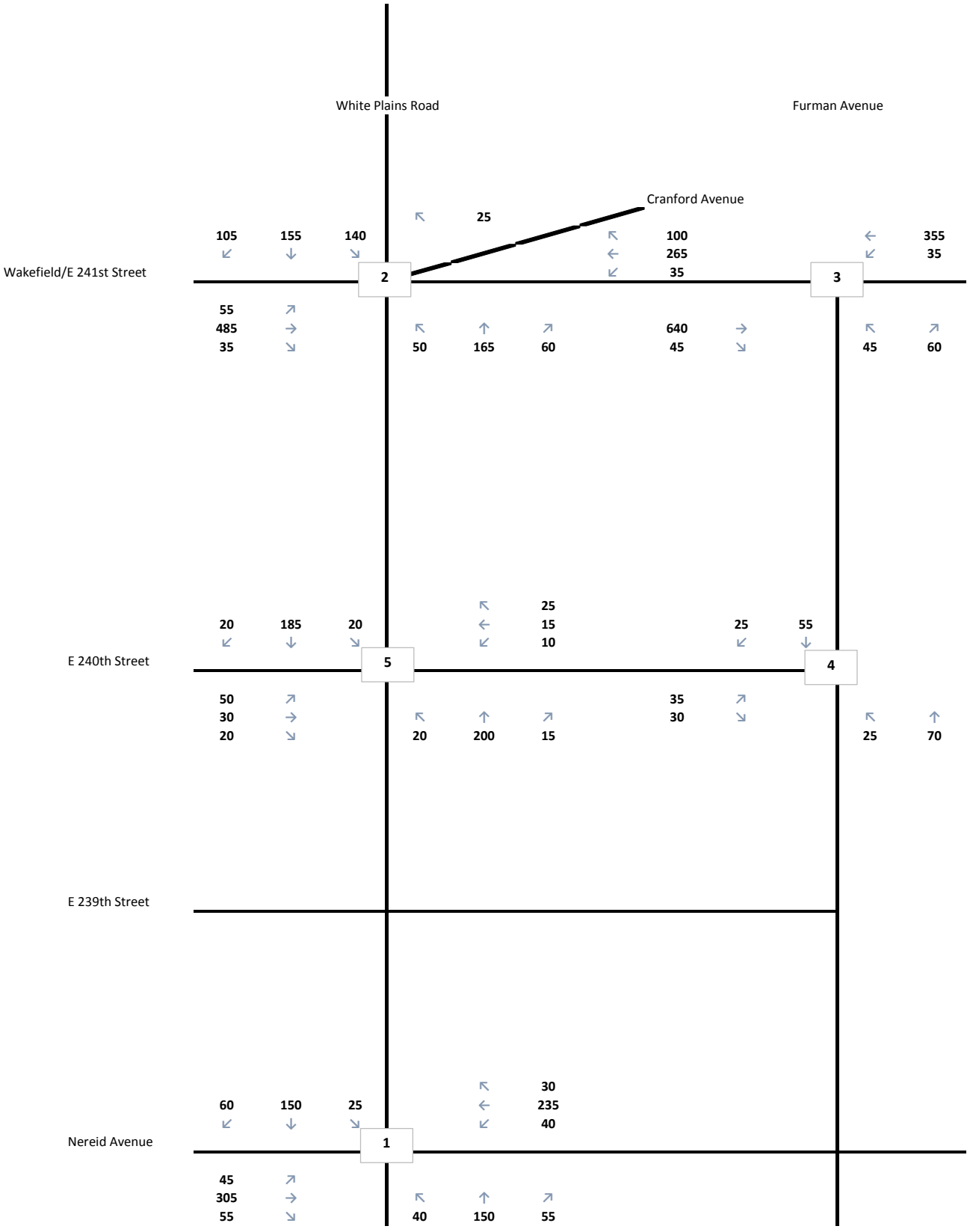


Figure D-12

SATURDAY MIDDAY PEAK HOUR - EXISTING TRAFFIC VOLUMES (2017)
EAST 241ST STREET REZONING

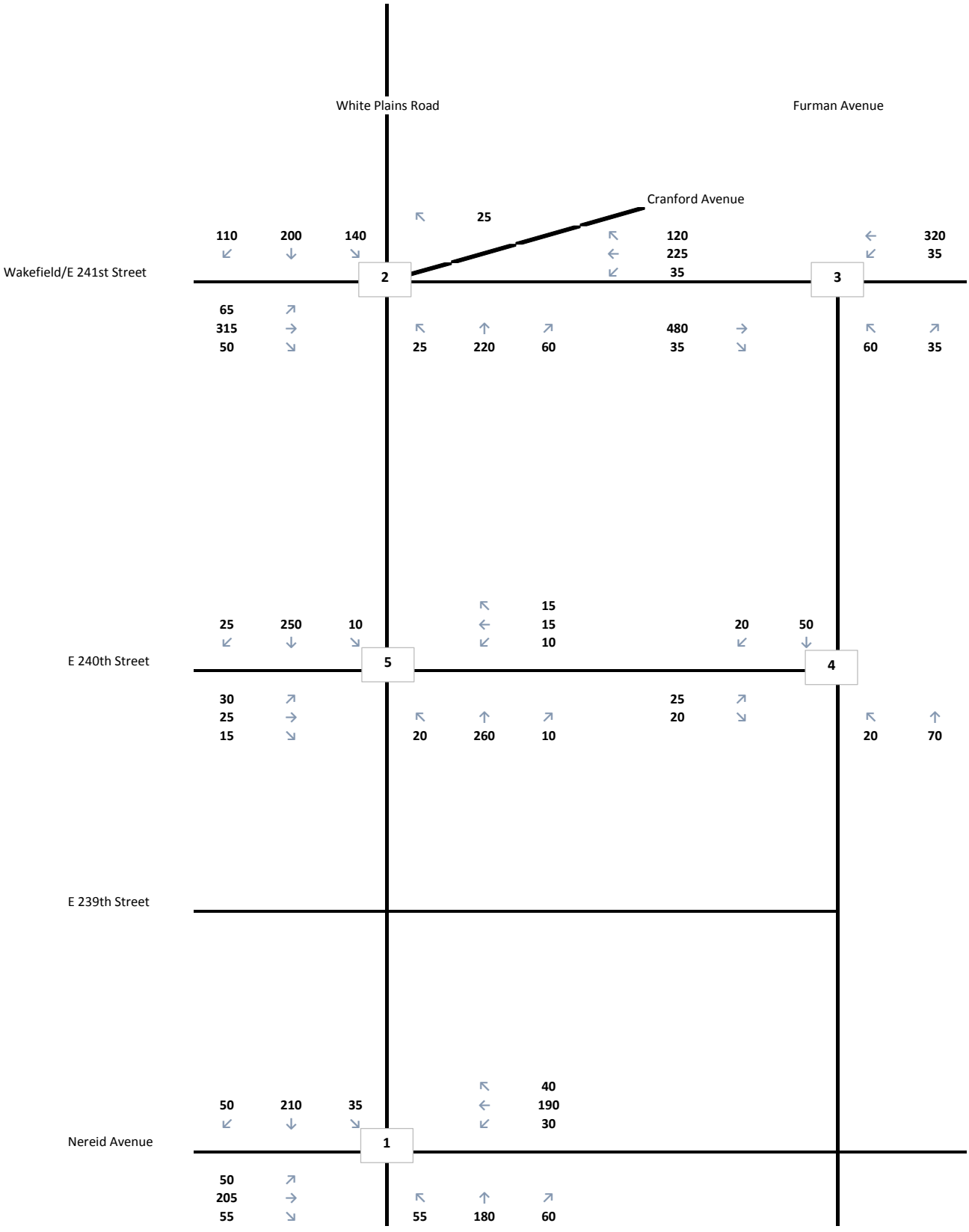


Figure D-13

WEEKDAY AM PEAK HOUR - NO-ACTION CONDITION TRAFFIC VOLUMES (2026)
EAST 241ST STREET REZONING

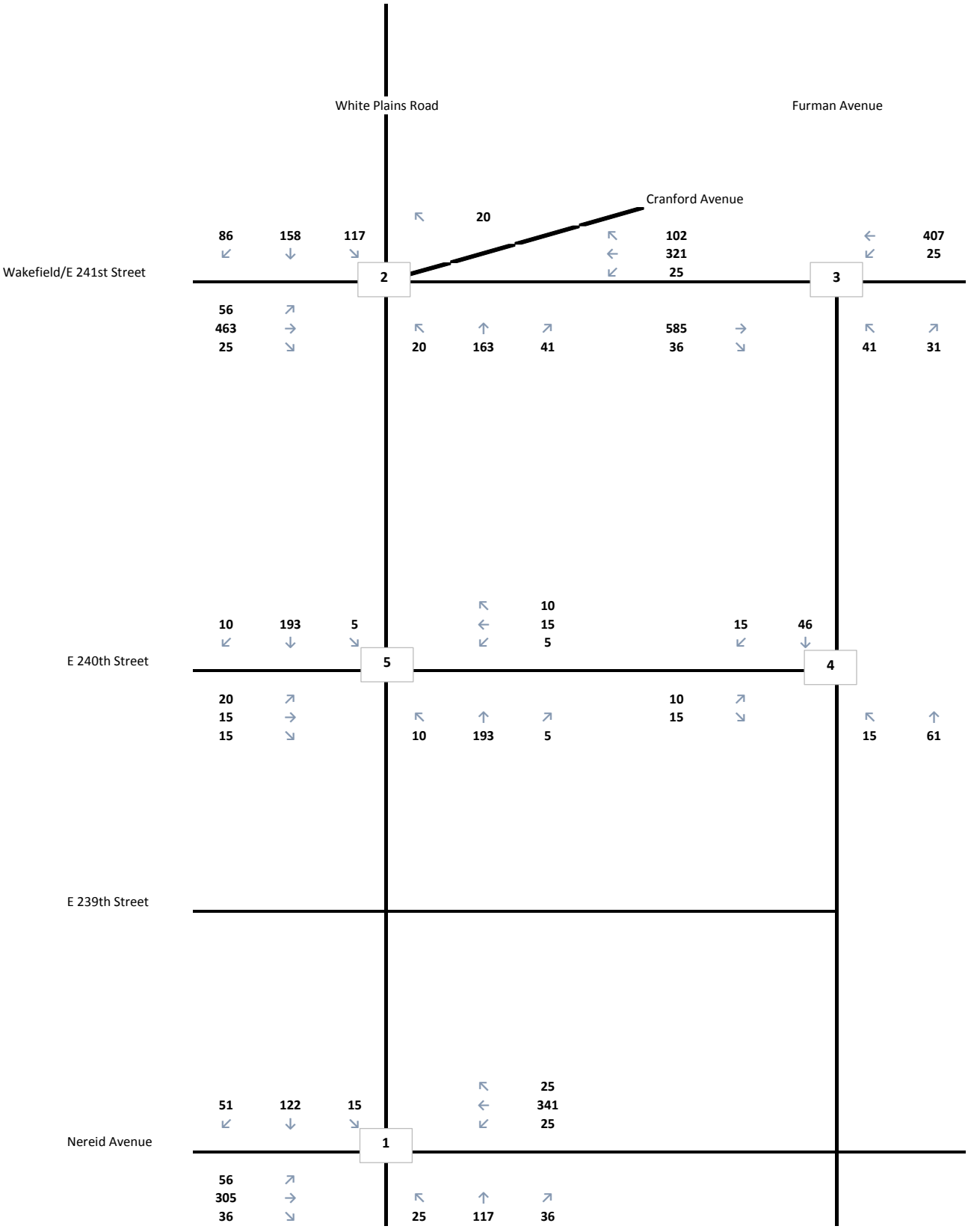


Figure D-14

WEEKDAY MIDDAY PEAK HOUR - NO-ACTION CONDITION TRAFFIC VOLUMES (2026)
EAST 241ST STREET REZONING

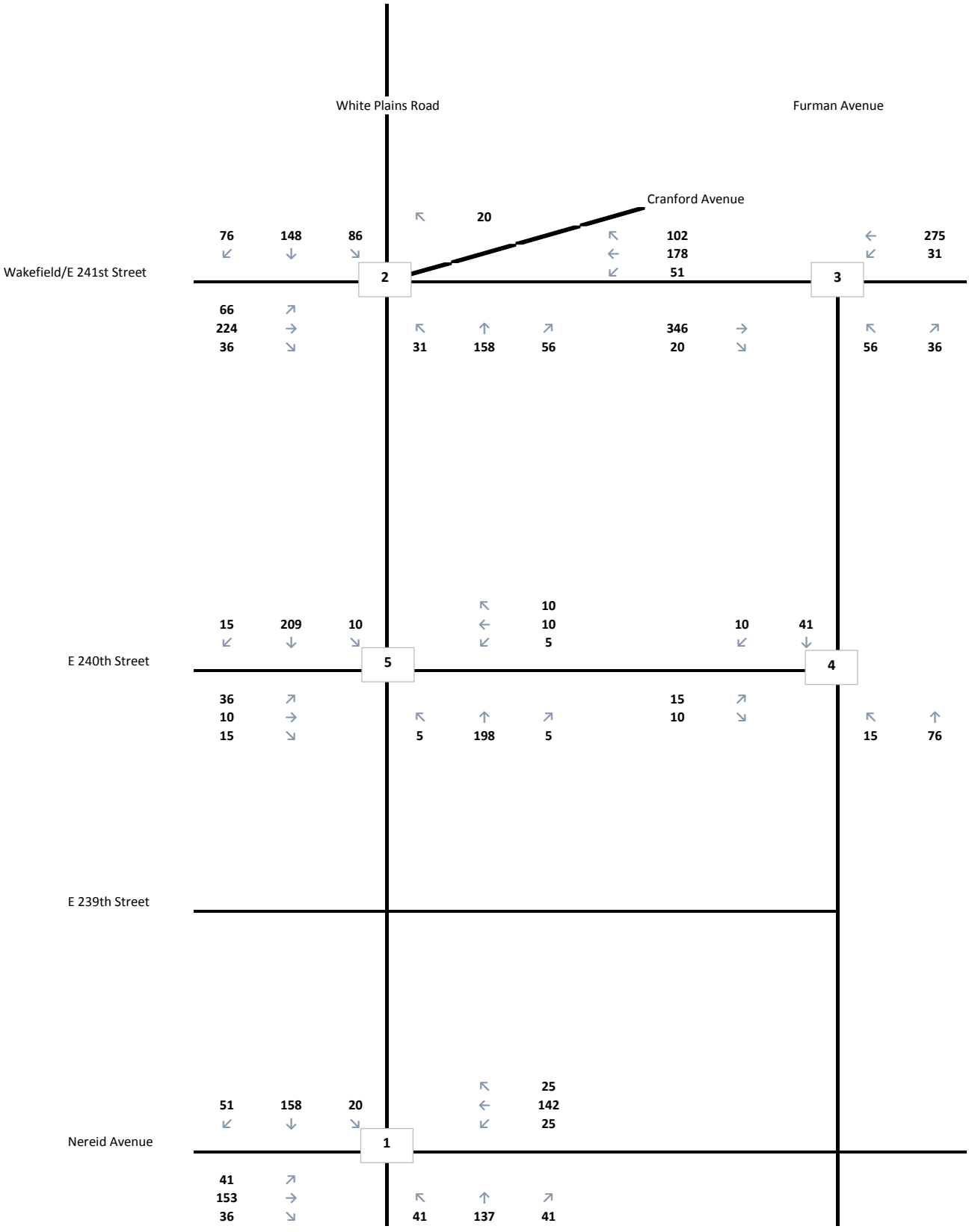


Figure D-15

WEEKDAY PM PEAK HOUR - NO-ACTION CONDITION TRAFFIC VOLUMES (2026)
EAST 241ST STREET REZONING

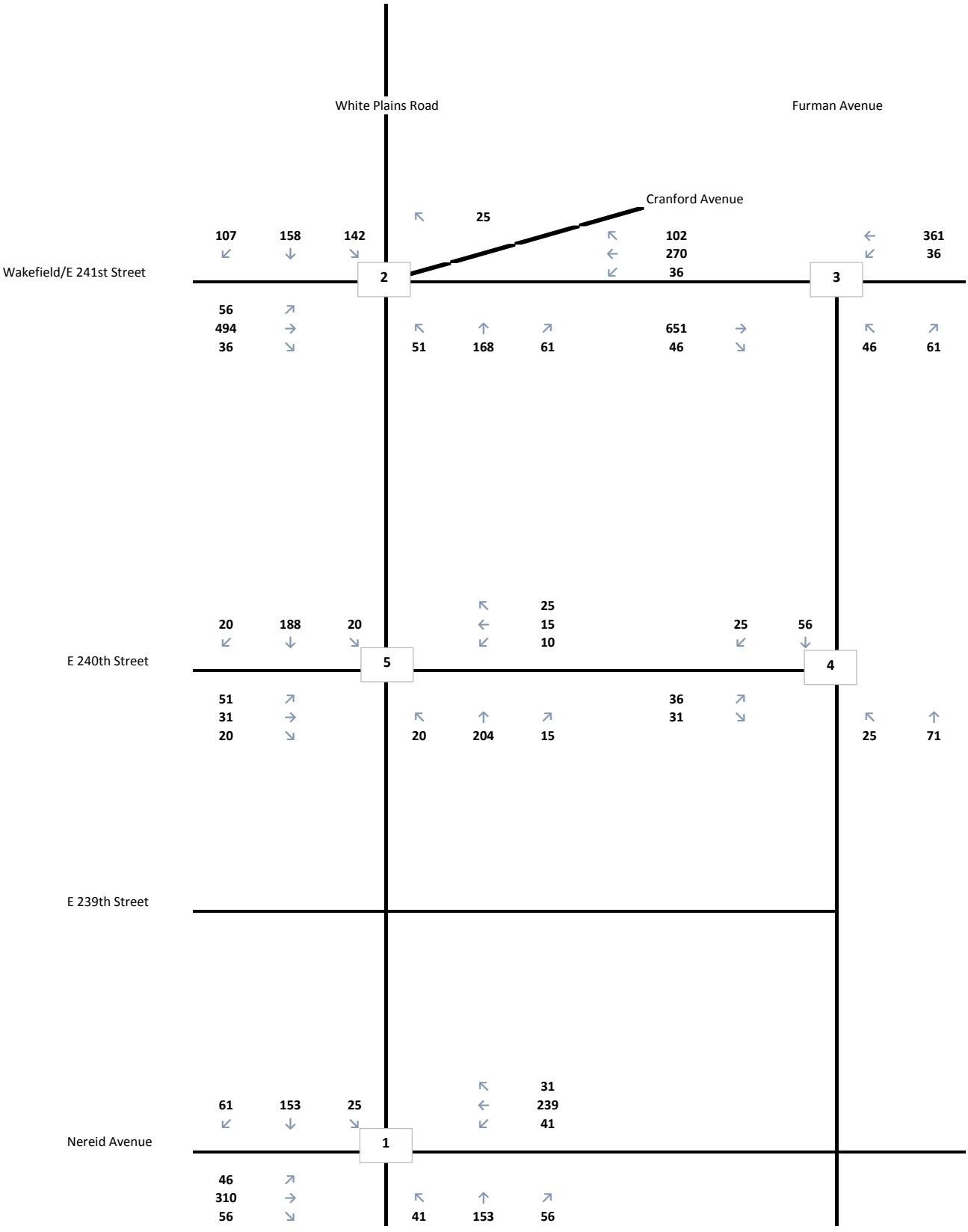


Figure D-16

SATURDAY MIDDAY PEAK HOUR - NO-ACTION CONDITION TRAFFIC VOLUMES (2026)
EAST 241ST STREET REZONING

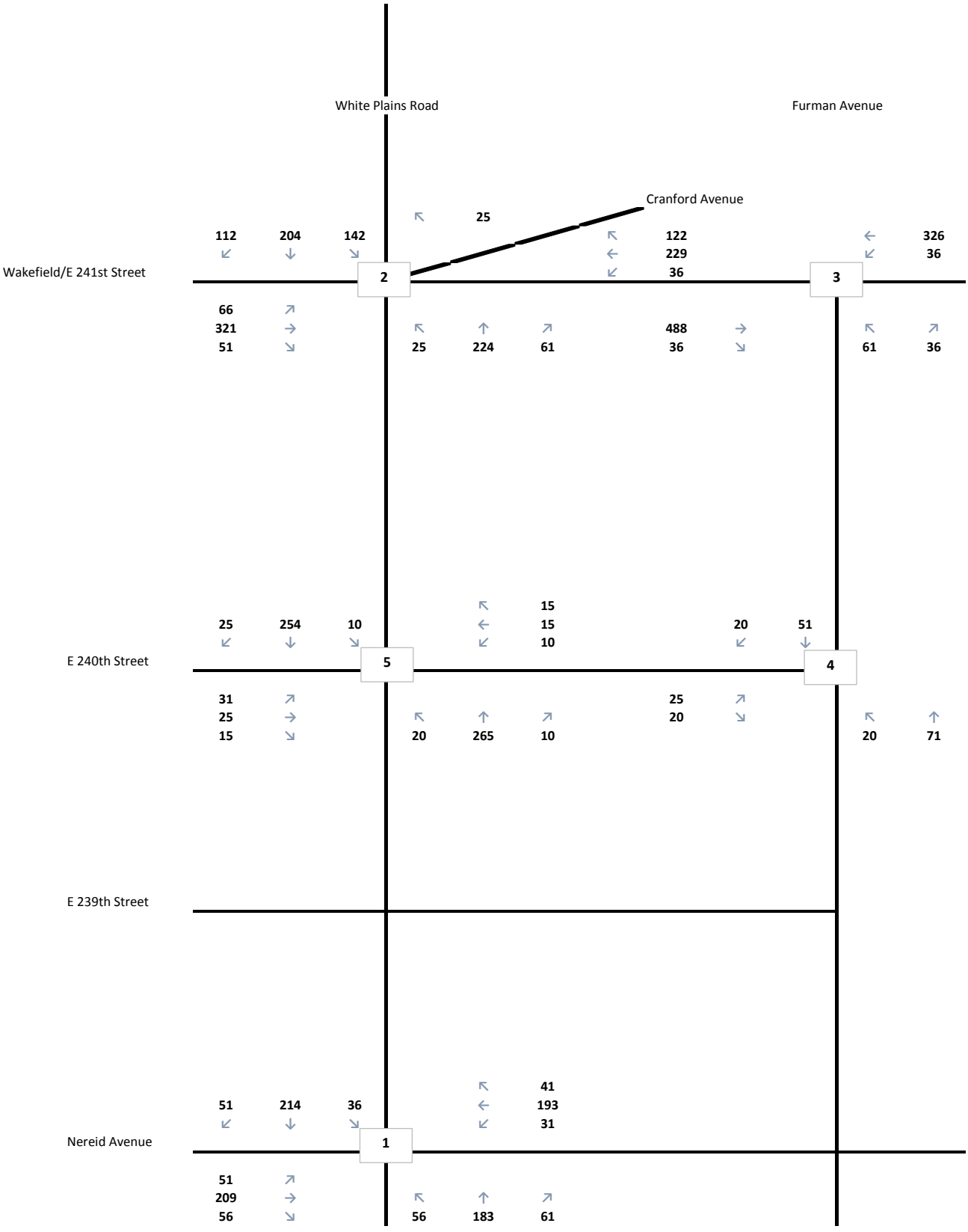


Figure D-17

WEEKDAY AM PEAK HOUR - WITH-ACTION CONDITION WITH PCRE TRAFFIC VOLUMES (2026)
EAST 241ST STREET REZONING

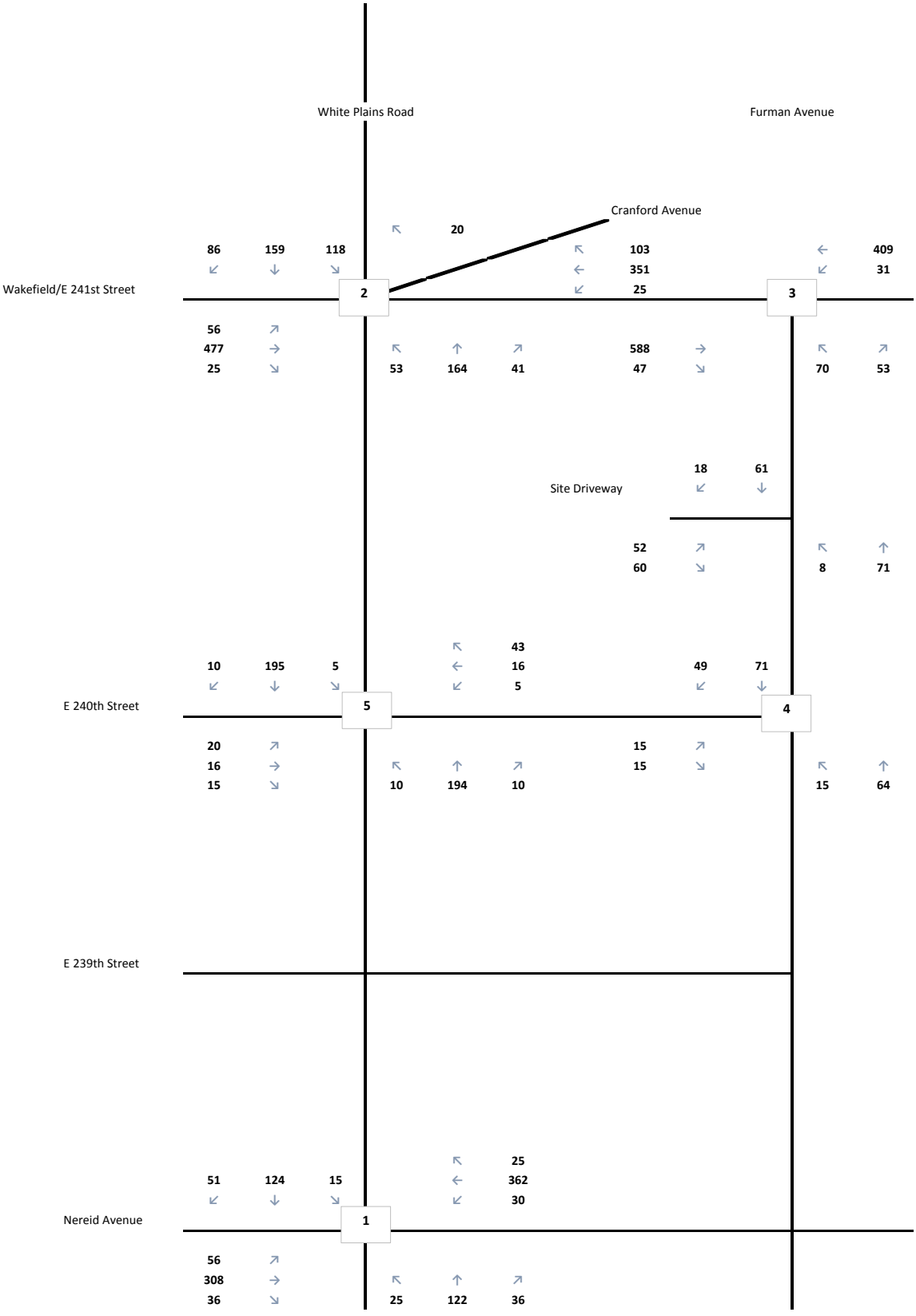


Figure D-18

WEEKDAY MIDDAY PEAK HOUR - WITH-ACTION CONDITION WITH PCRE TRAFFIC VOLUMES (2026)
EAST 241ST STREET REZONING

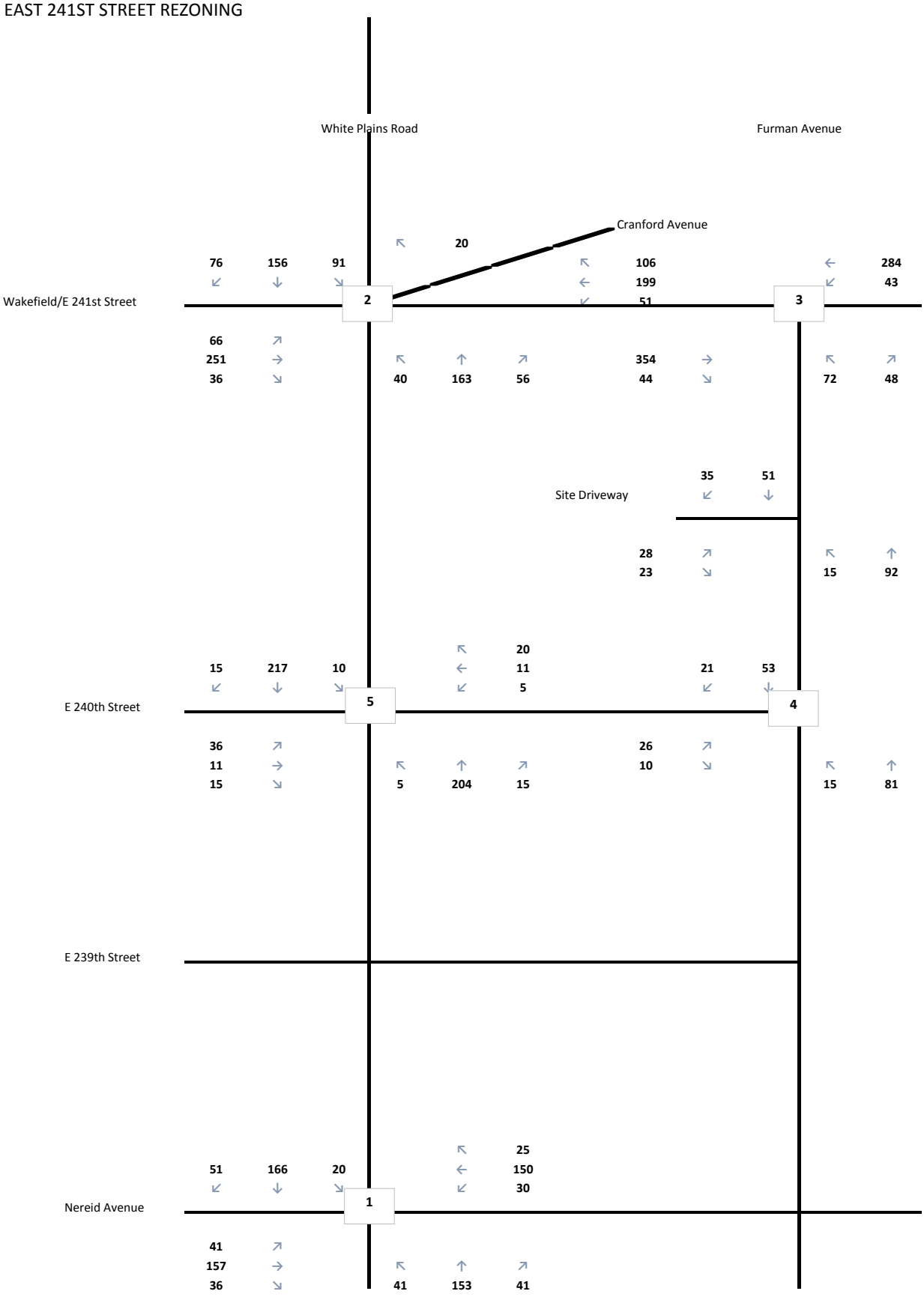


Figure D-19

WEEKDAY PM PEAK HOUR - WITH-ACTION CONDITION WITH PCRE TRAFFIC VOLUMES (2026)
EAST 241ST STREET REZONING

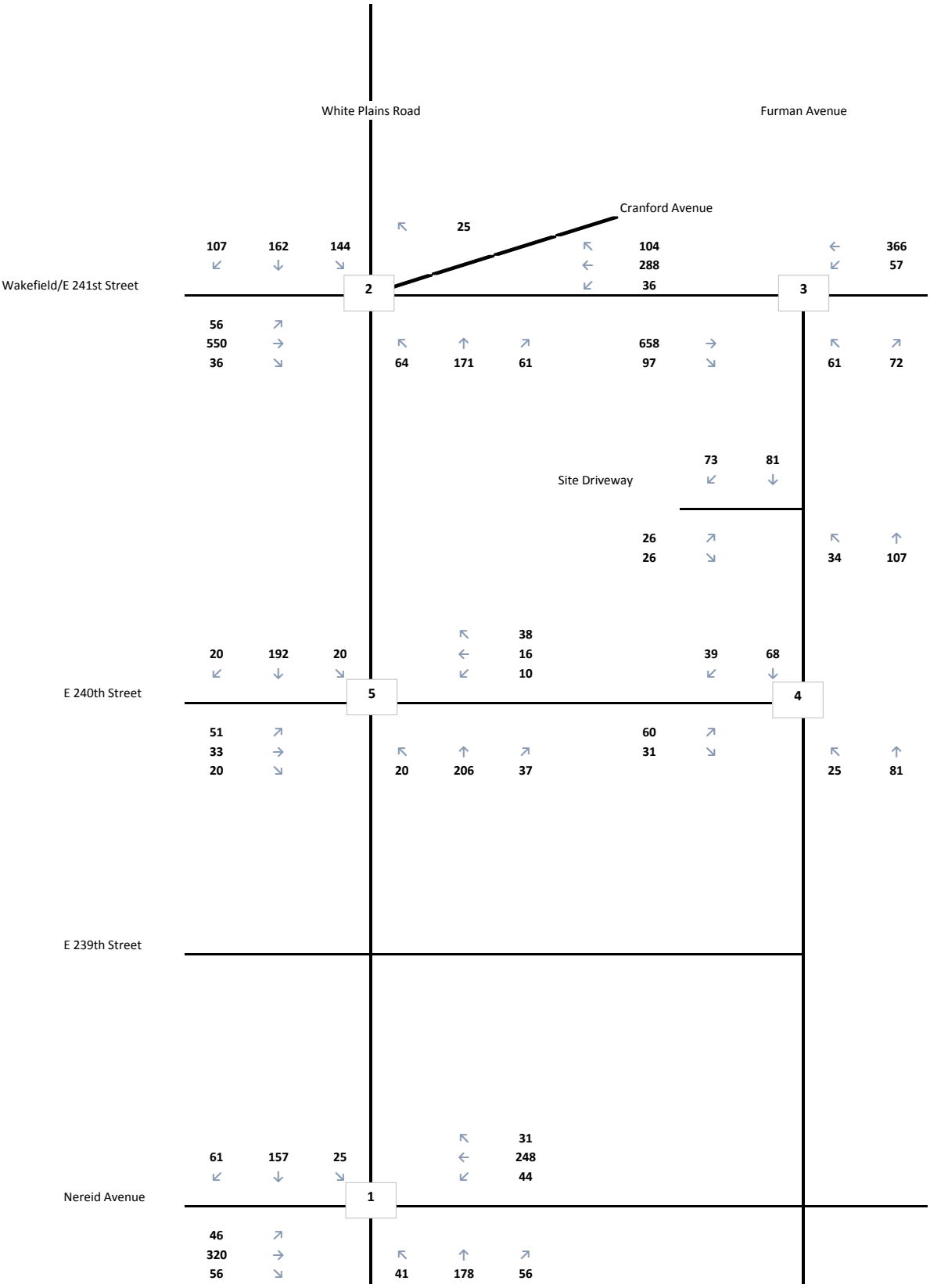


Figure D-20

SATURDAY MIDDAY PEAK HOUR - WITH-ACTION CONDITION WITH PCRE TRAFFIC VOLUMES (2026)
EAST 241ST STREET REZONING

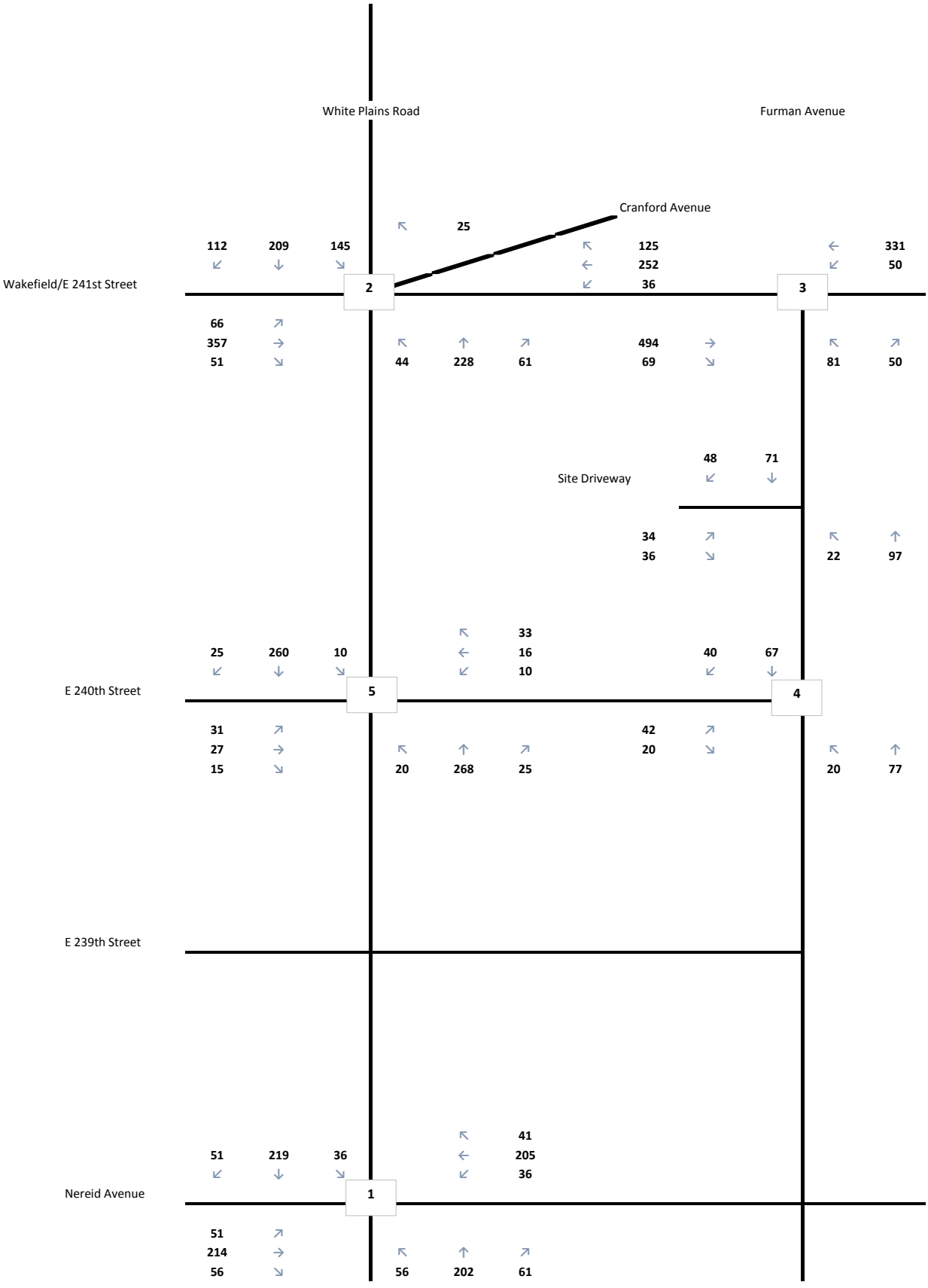


Figure D-21

WEEKDAY AM PEAK HOUR - EXISTING PEDESTRIAN VOLUMES (2017)
EAST 241ST STREET REZONING

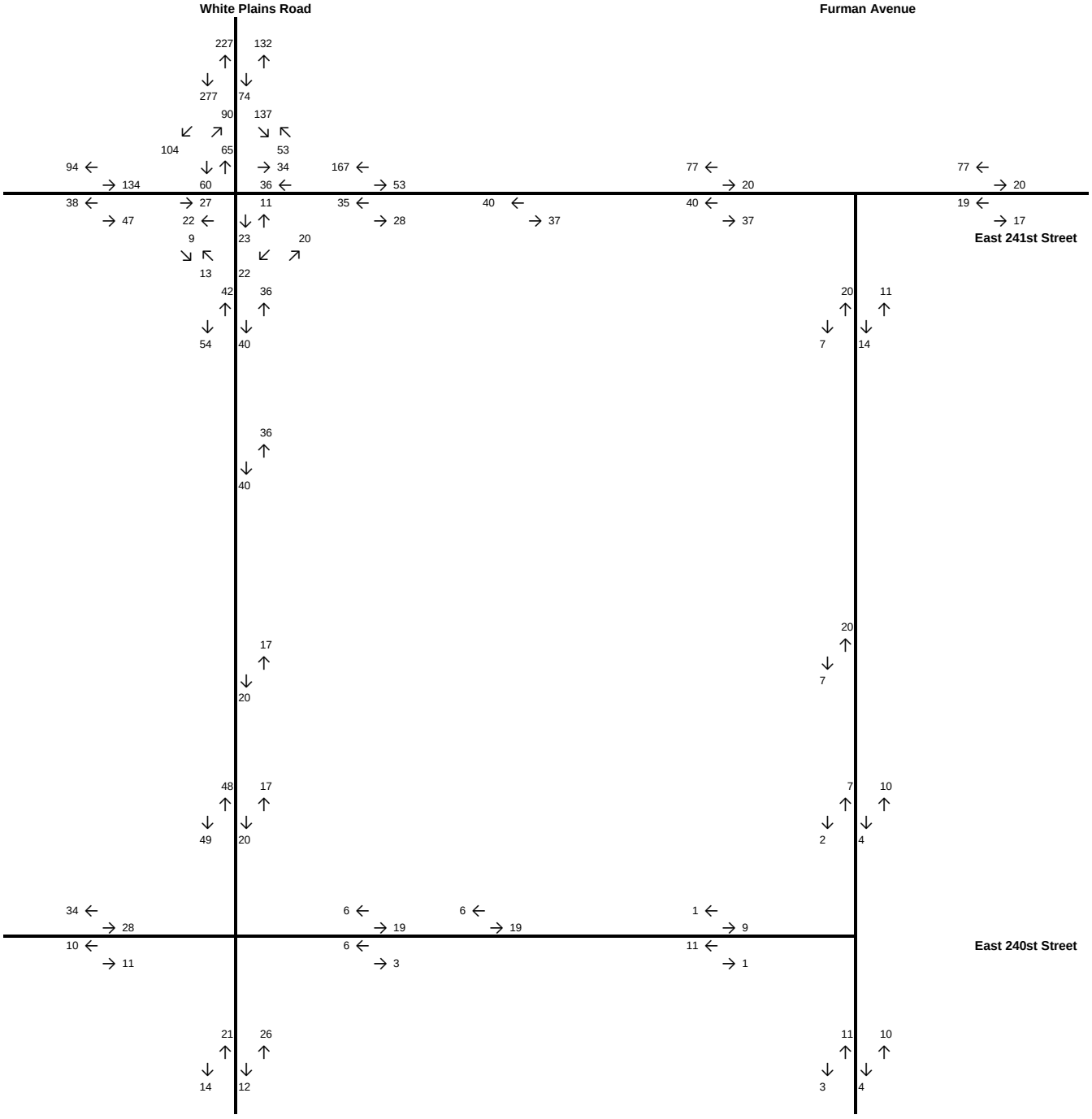


Figure D-22

WEEKDAY MIDDAY PEAK HOUR - EXISTING PEDESTRIAN VOLUMES (2017)
EAST 241ST STREET REZONING

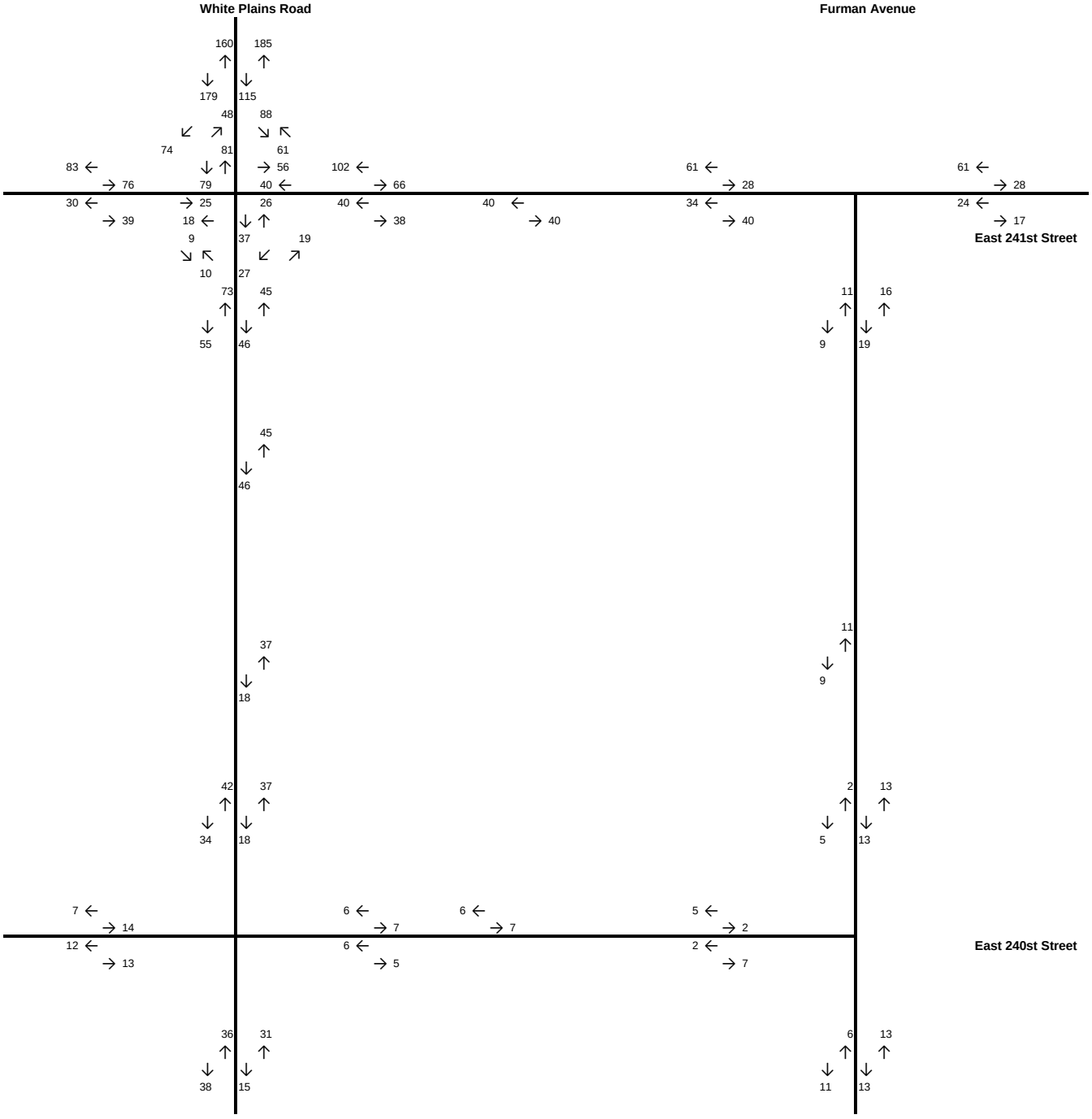


Figure D-23

WEEKDAY PM PEAK HOUR - EXISTING PEDESTRIAN VOLUMES (2017)
EAST 241ST STREET REZONING

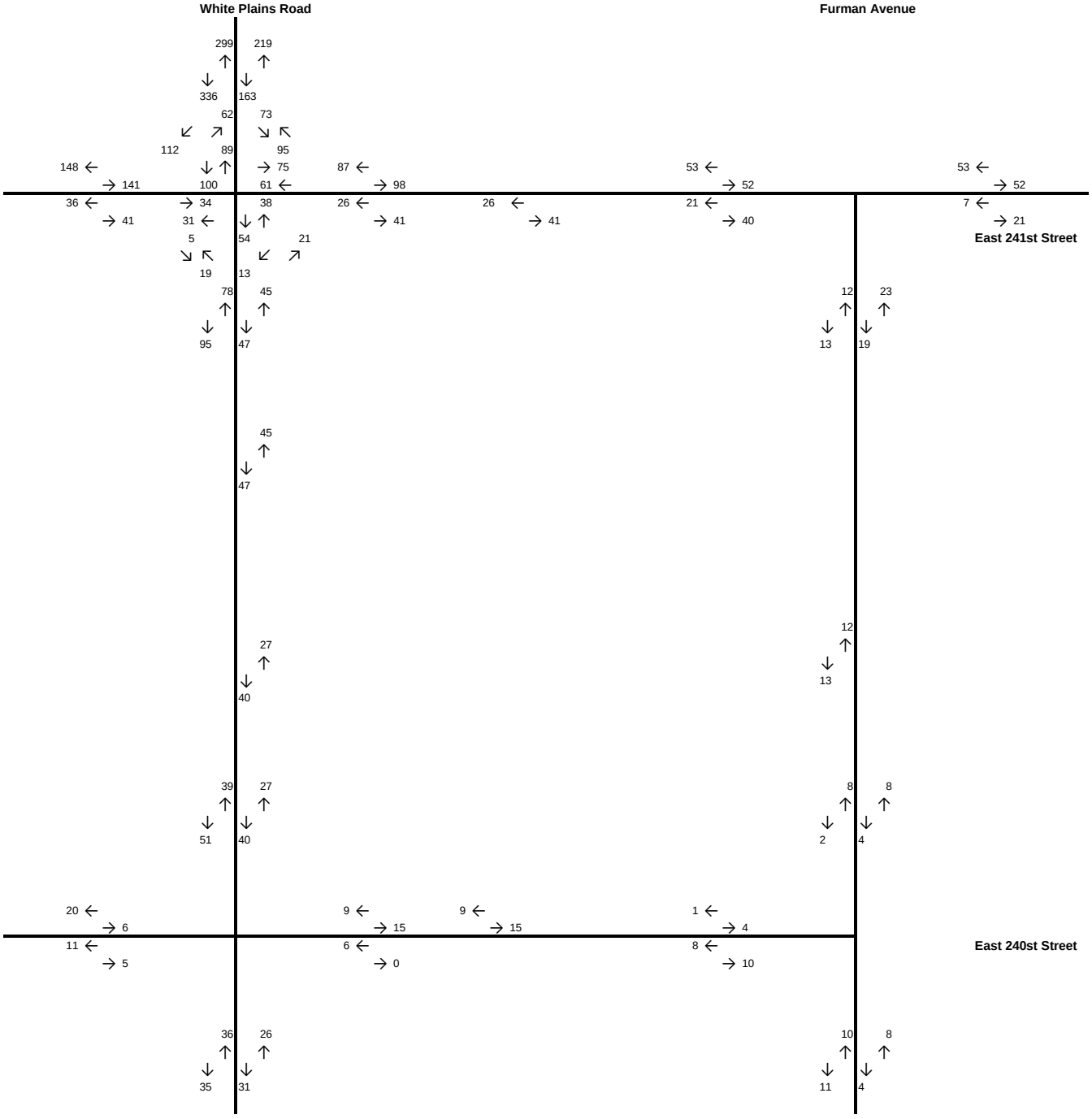


Figure D-24

SATURDAY MIDDAY PEAK HOUR - EXISTING PEDESTRIAN VOLUMES (2017)
EAST 241ST STREET REZONING

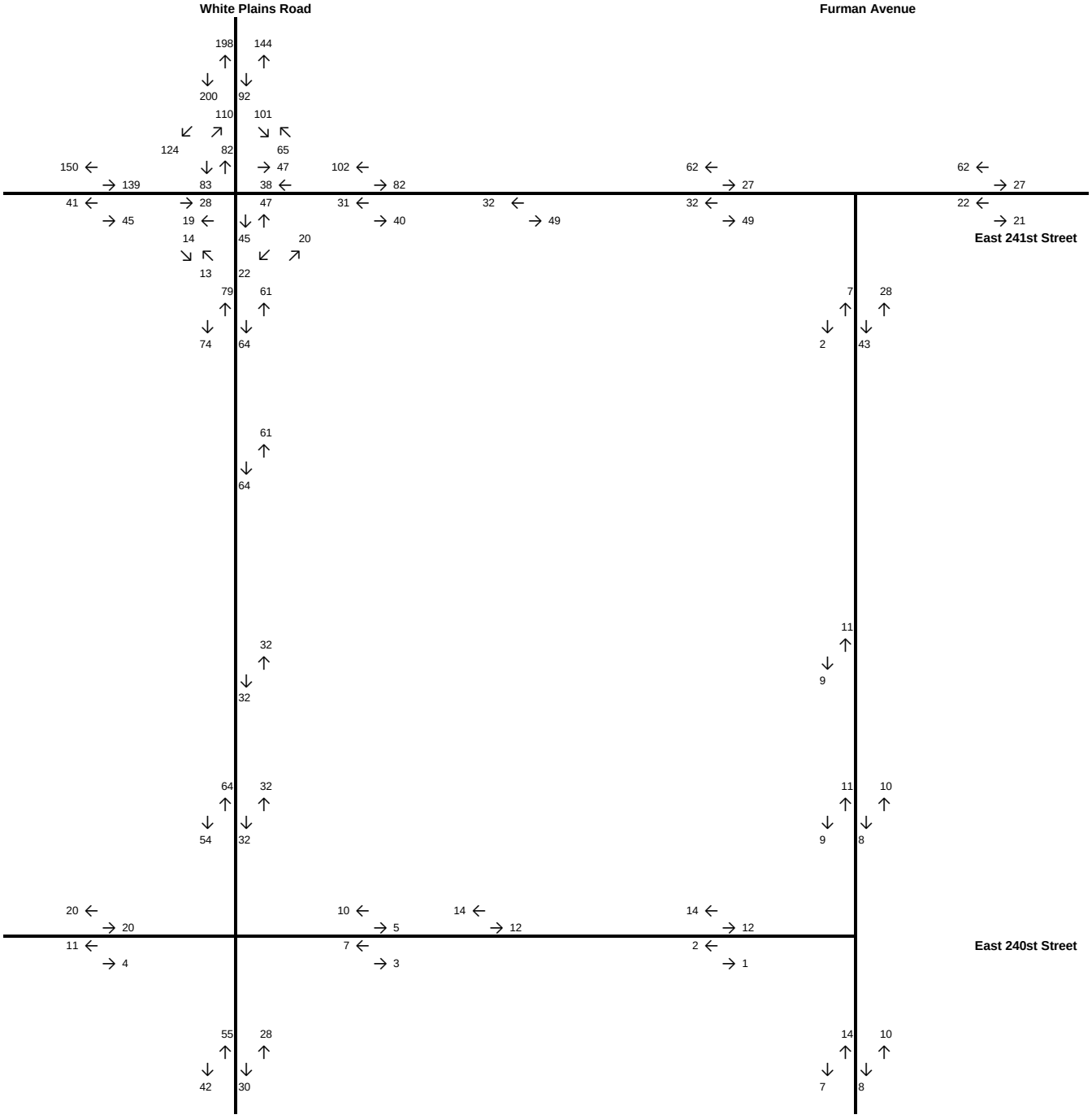


Figure D-25

WEEKDAY AM PEAK HOUR - NO-ACTION CONDITION PEDESTRIAN VOLUMES (2026)
EAST 241ST STREET REZONING

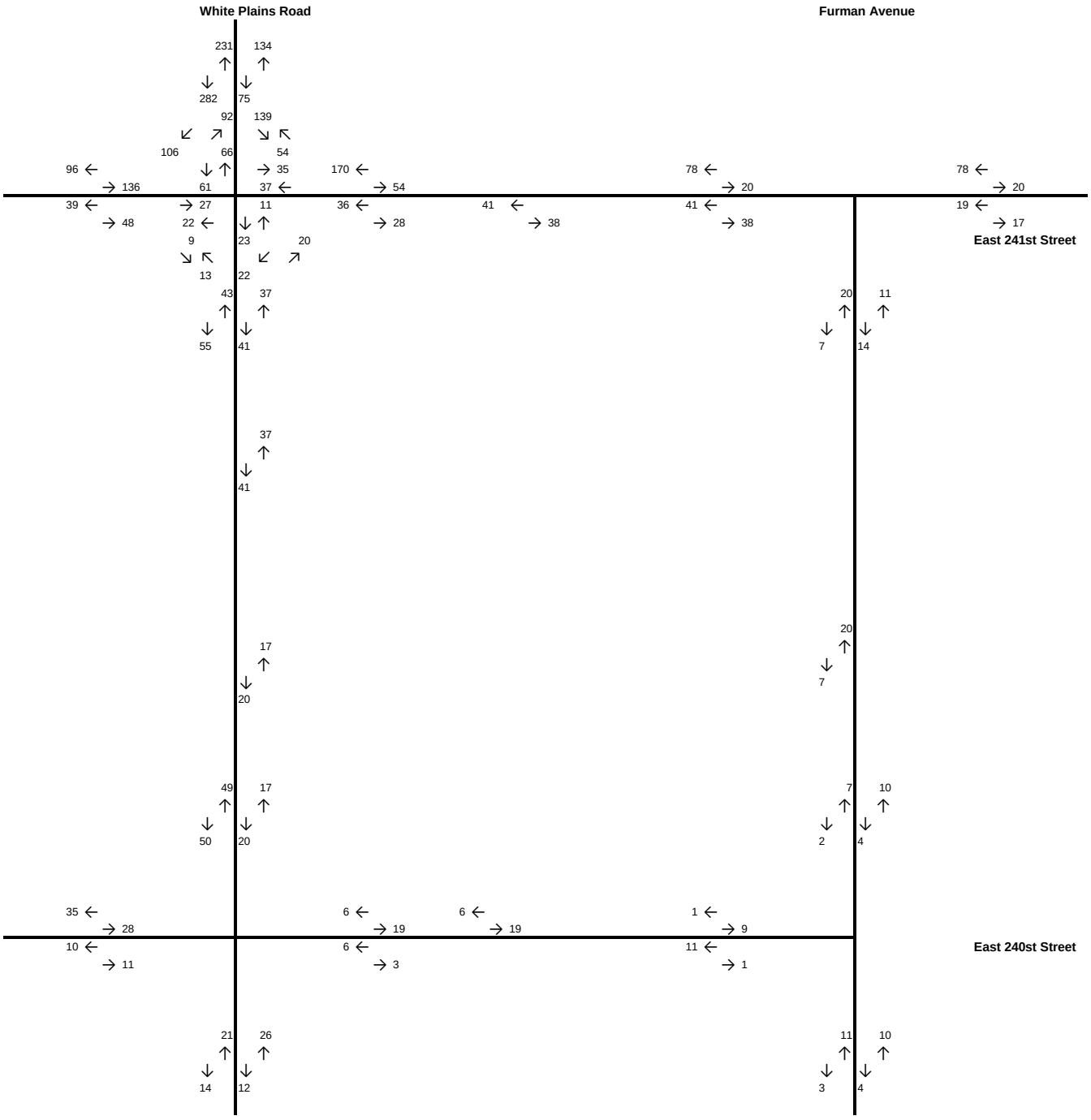


Figure D-26

WEEKDAY MIDDAY PEAK HOUR - NO-ACTION CONDITION PEDESTRIAN VOLUMES (2026)
EAST 241ST STREET REZONING

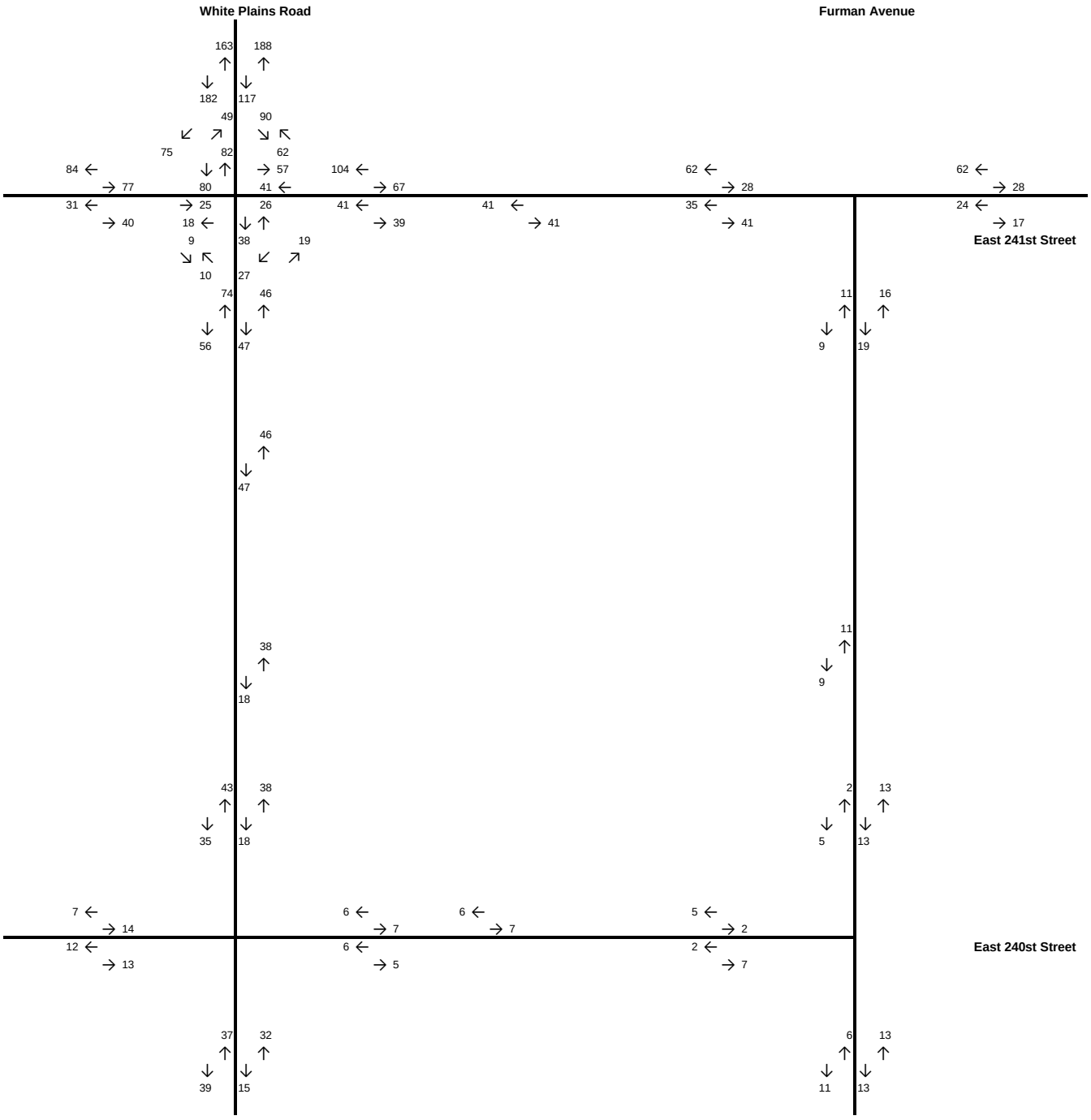


Figure D-27

WEEKDAY PM PEAK HOUR - NO-ACTION CONDITION PEDESTRIAN VOLUMES (2026)
EAST 241ST STREET REZONING

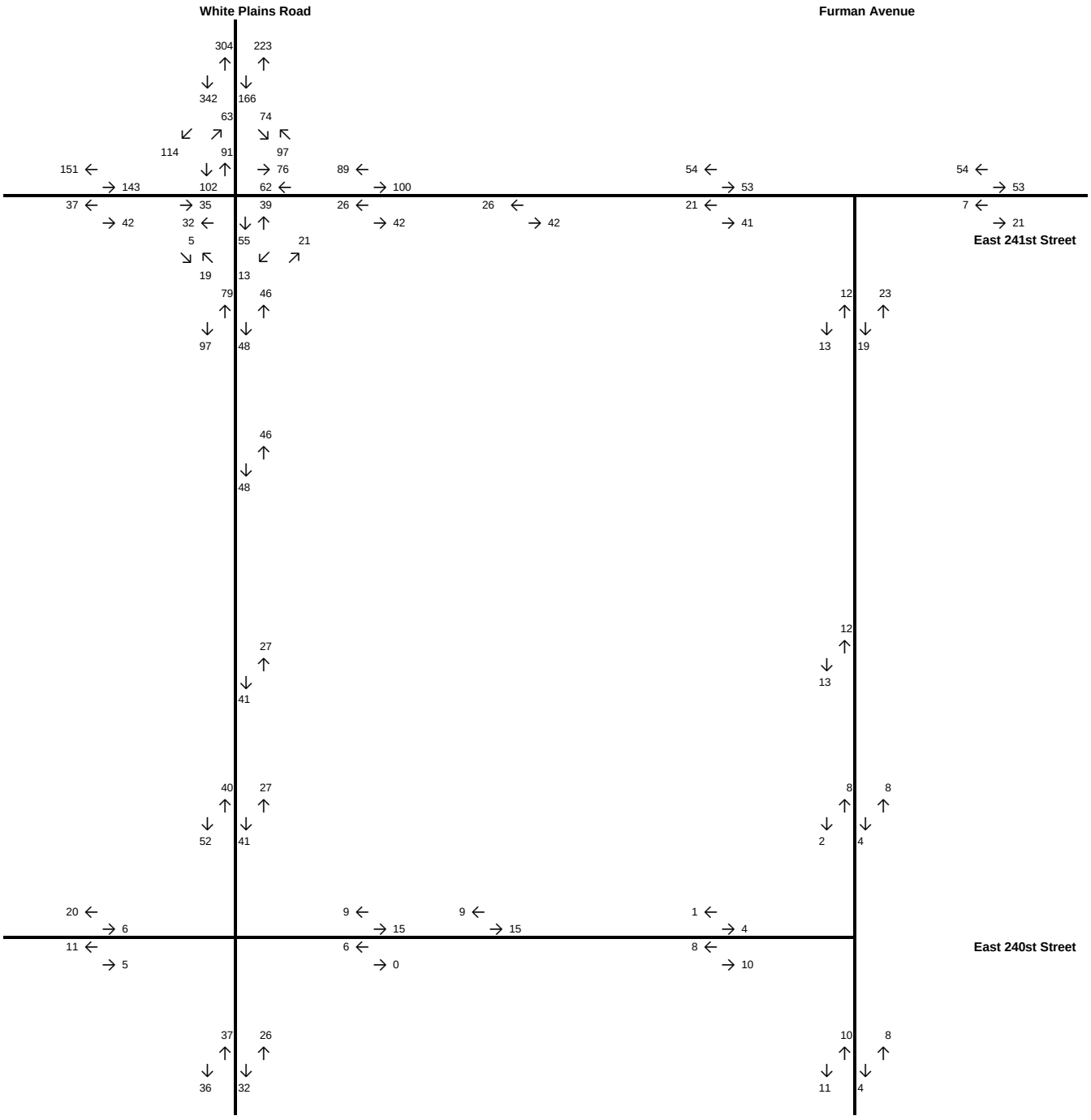


Figure D-28

SATURDAY MIDDAY PEAK HOUR - NO-ACTION CONDITION PEDESTRIAN VOLUMES (2026)
EAST 241ST STREET REZONING

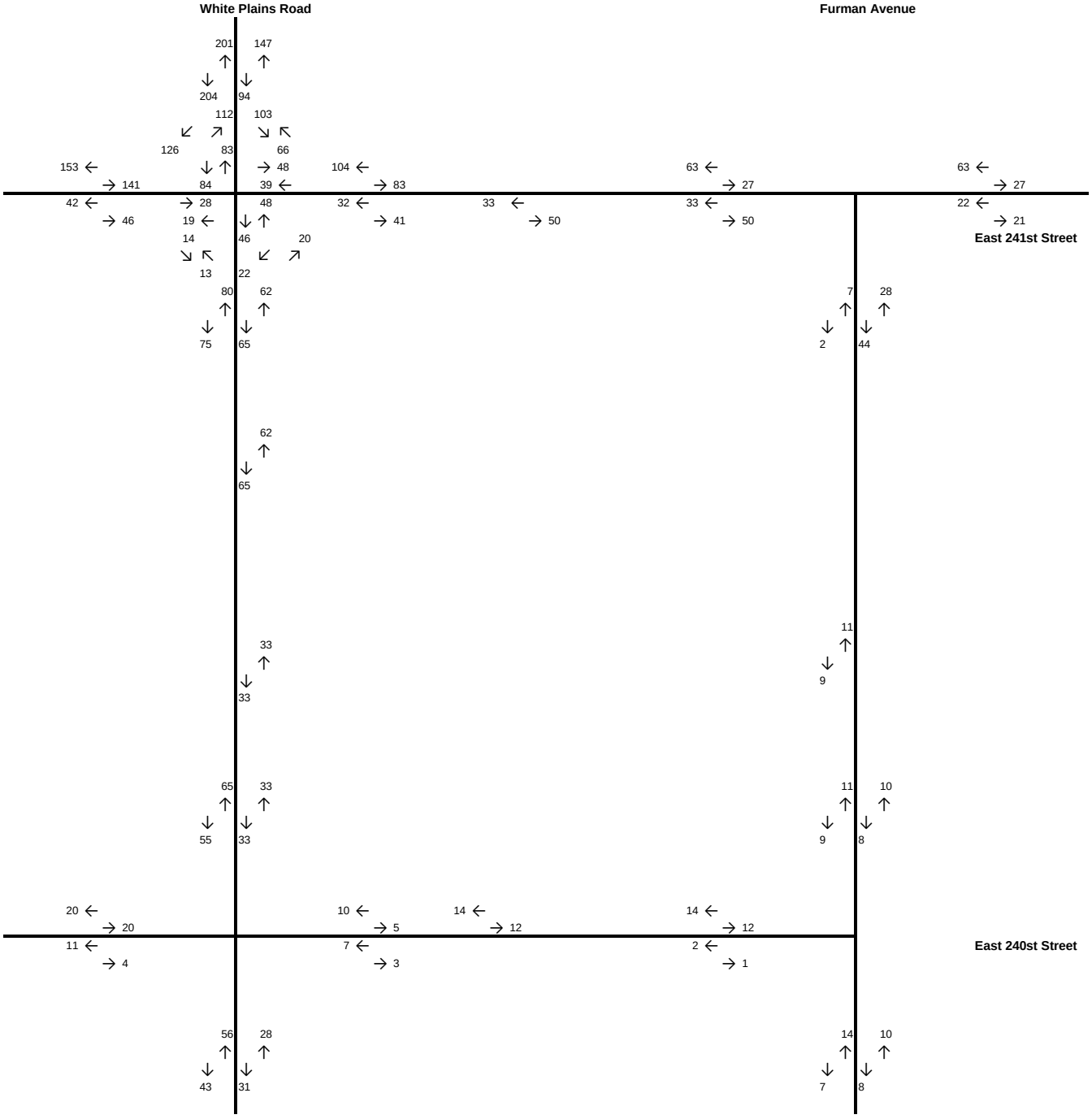


Figure D-29

WEEKDAY AM PEAK HOUR - WITH- ACTION CONDITION PEDESTRIAN VOLUMES (2026)
EAST 241ST STREET REZONING

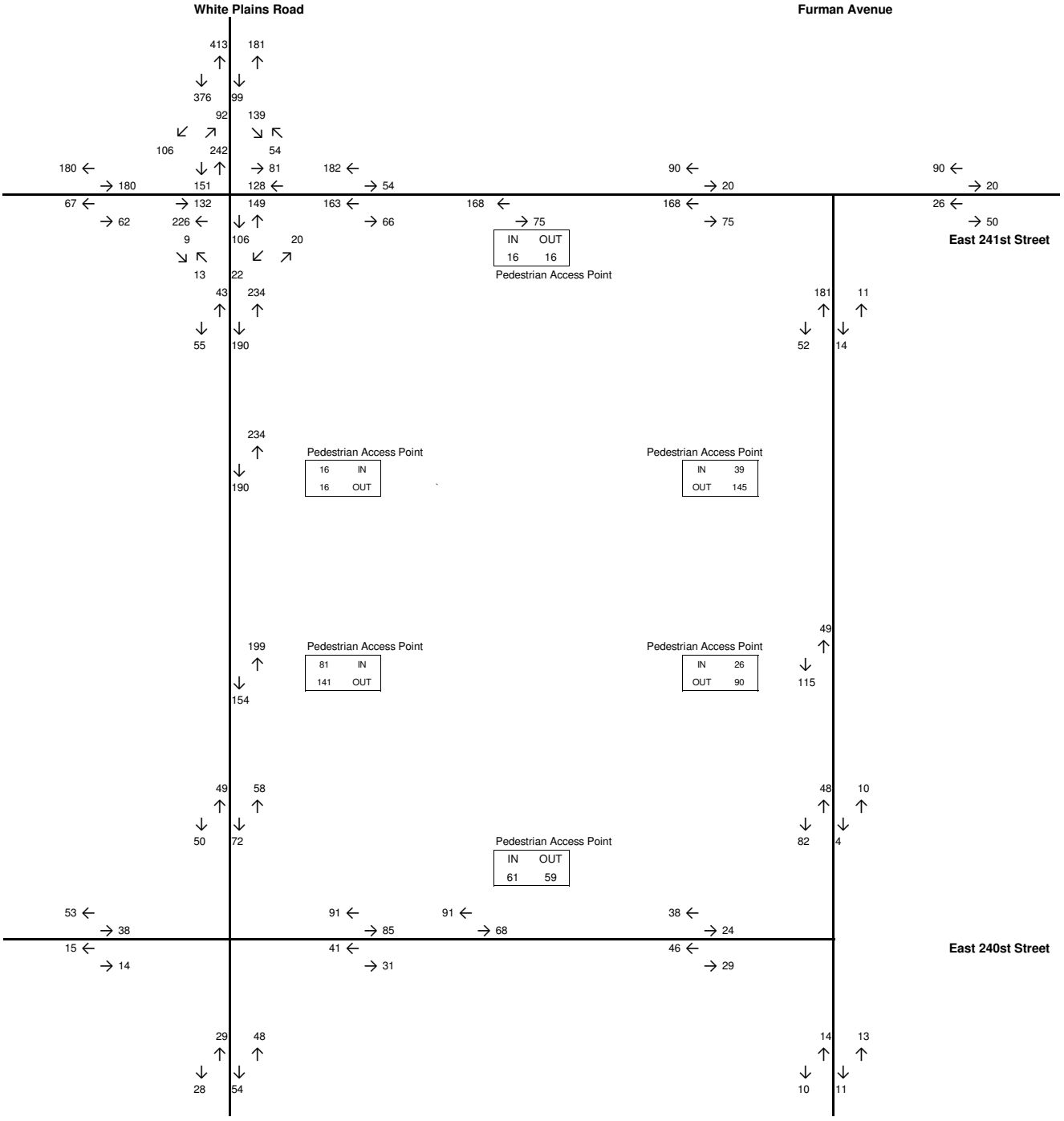


Figure D-30

WEEKDAY MIDDAY PEAK HOUR - WITH- ACTION CONDITION PEDESTRIAN VOLUMES (2026)
EAST 241ST STREET REZONING

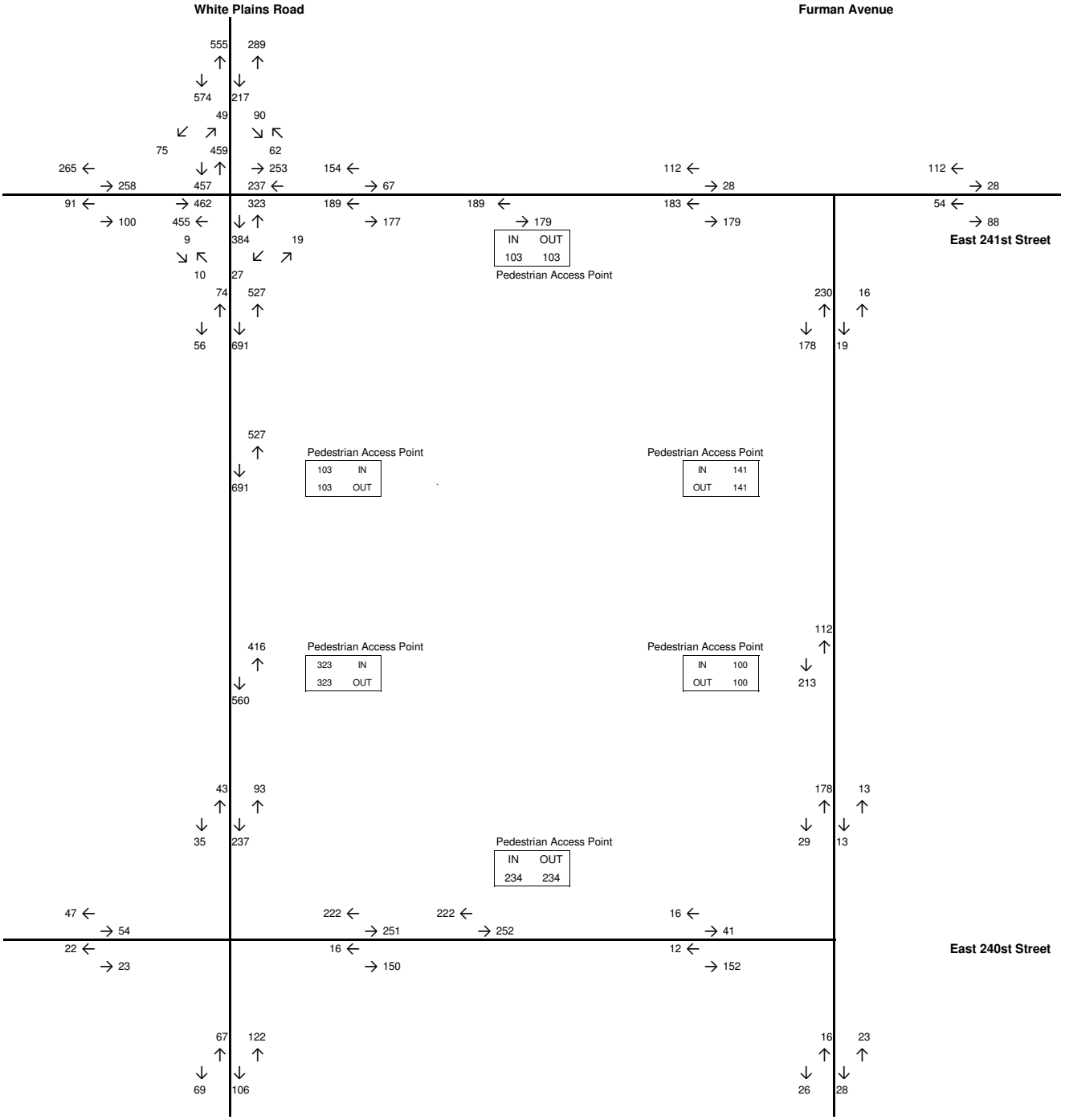


Figure D-31

WEEKDAY PM PEAK HOUR - WITH- ACTION CONDITION PEDESTRIAN VOLUMES (2026)
EAST 241ST STREET REZONING

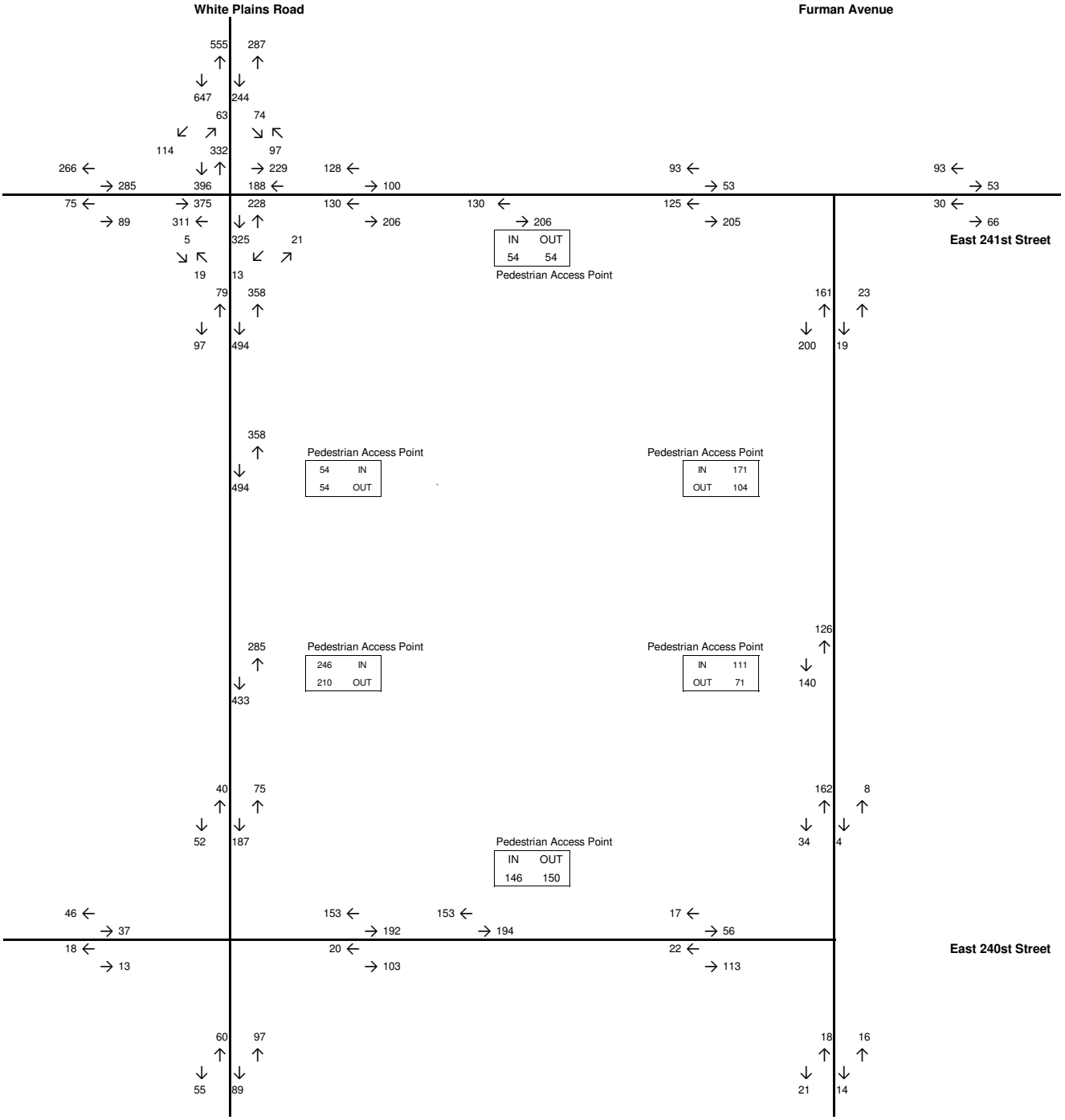
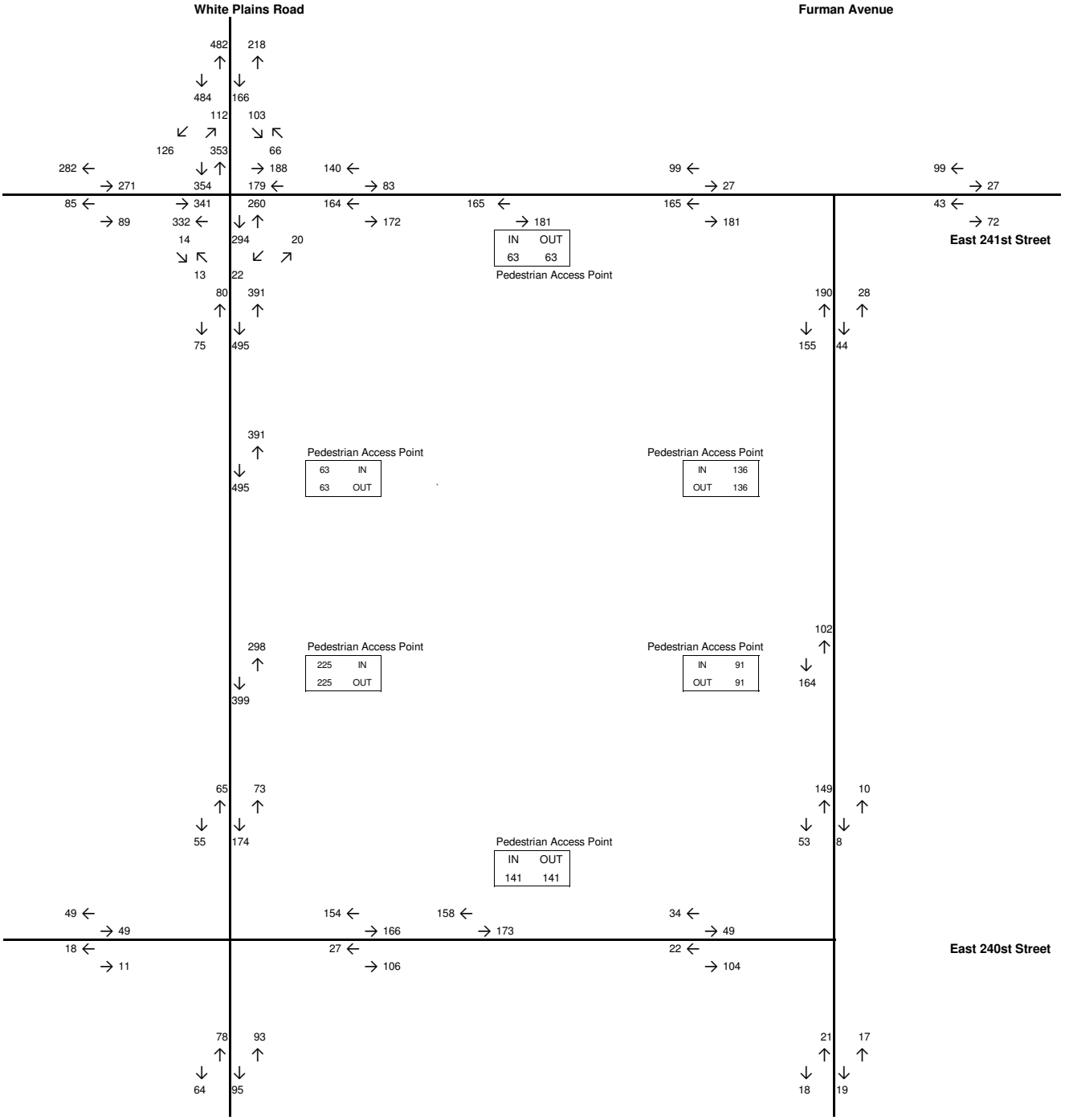


Figure D-32

SATURDAY MIDDAY PEAK HOUR - WITH- ACTION CONDITION PEDESTRIAN VOLUMES (2026)
EAST 241ST STREET REZONING



APPENDIX E: AIR QUALITY

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MEMORANDUM

DATE:	2017-08-14	**RWDI REFERENCE #:** 1800037
TO:	Ronald Ying, Chris Lee – Environmental Assessment and Review Division – NYC Department of City Planning	**EMAIL:** clee@planning.nyc.gov
FROM:	Aimee Smith - RWDI	**EMAIL:** aimee.smith@rwdi.com
	Mike Ratcliff – RWDI	**EMAIL:** mike.ratcliff@rwdi.com
INFO:	Mike Keane, AICP – Langan	**EMAIL:** mkeane@langan.com
RE:	**Modeling Protocol – EAS Air Quality Analysis** **Enclave – 241st Street Rezoning, Block 5087, Bronx**	

The purpose of this memorandum is to describe the City Environmental Quality Review (CEQR) air quality analysis approach in support of the Environmental Assessment Statement (EAS) for the proposed rezoning of Block 5087, Bronx.

The Proposed Action includes the five Projected Development Sites identified as Sites 1 to 5, shown in Image 1. There are also five Potential Development Sites, identified as Sites A to E. All Projected and Potential sites will be included in the Air Quality stationary source analysis as part of the requirement to analyze site specific impacts associated with the proposed rezoning plan.

1.0 AIR QUALITY ANALYSIS

This section presents a summary of the methodology and assumptions to be used for the stationary source air quality analyses in support of the EAS.

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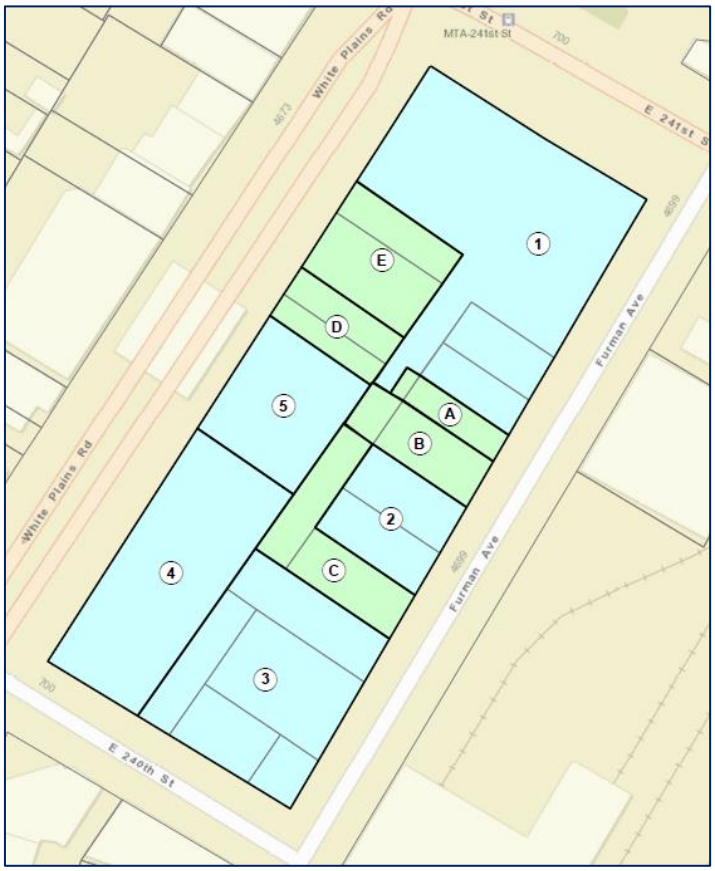


Image 1 – Projected and Potential Development Sites

1.1 Background Concentrations

Background concentrations will be added to refined dispersion modeling results for stationary sources to obtain total pollutant concentrations at an analysis site and/or receptor location. The background concentrations used will be in the statistical format of the NAAQS, as provided in the 2014 CEQR Technical Manual. These represent the most recent 3-year average for 24-hour average PM2.5, 1-hour average NO_2 and SO_2, and 3-hour SO_2, the highest value from the three most recent years of data available for PM_{10}, and the highest value from the five most recent years of data available for all other pollutant and averaging period combinations. The most recent available background values will be obtained from https://www.epa.gov/outdoor-air-quality-data for the IS-143 and Pfizer Lab Sites.

1.2 Mobile Source Analysis

1.2.1 INTERSECTION SELECTION

The mobile source analysis will evaluate the proposed action for potential impacts from carbon monoxide (CO), fine particulate matter less than 2.5 microns in diameter ($PM_{2.5}$), and coarse plus fine particulate matter less than 10.0 microns in diameter (PM_{10}) due to vehicular traffic anticipated to be generated by the proposed action.

To help determine which roadway intersections are to be evaluated, the NYC City Environmental Quality Review (CEQR) Technical Manual describes a screening evaluation based on predicted incremental traffic counts determined from a separate traffic study. For the study site, the increments are 170 or more automobile trips in the peak hour for CO. For $PM_{2.5}$ several number of incremental peak hour trips for heavy duty diesel vehicles (HDDV) are specified depending on the type of roadway. If the number of incremental peak hour trips exceed the thresholds, a detailed mobile analysis will be conducted as described below.

1.2.2 EMISSION FACTORS

Vehicular cruise and idle CO, $PM_{2.5}$ and PM_{10} emission factors to be utilized in the dispersion modeling will be computed using EPA's mobile source emissions model, Motor Vehicle Emission Simulator, or MOVES. This emissions model is capable of calculating engine emission factors for various vehicle types, based on the fuel type (gasoline, diesel, or natural gas), meteorological conditions, vehicle speeds, vehicle age, roadway types, number of starts per day, engine soak time, and various other factors that influence emissions, such as inspection maintenance programs. MOVES will also be used to calculate road dust emissions important for PM_{10}. Road dust silt factors will be obtained from Chapter 17 of the 2014 CEQR Technical Manual. Project specific traffic data obtained through field studies as well as county-specific hourly temperature and relative humidity data obtained from DEC will be used.

If maximum predicted $PM_{2.5}$ and PM_{10} concentrations would result in a potential impact, refinements to the analysis will be implemented. Seasonal and off-peak emission factors can be prepared using additional runs of the MOVES model, along with hourly temperature data, in order to capture the effect of temperature differences as well as changing vehicular classification mixes in off peak hours.

1.2.3 DISPERSION MODELING

The mobile source analysis of CO, $PM_{2.5}$ and PM_{10} will be conducted using CAL3QHCR, which is a refined version of the model CAL3QHC, at affected intersections. The model employs a Gaussian (normal distribution) dispersion assumption and includes an algorithm for estimating vehicular queue lengths at signalized intersections. It calculates emissions and dispersion of exhaust from idling and moving vehicles. CAL3QHCR is an extended module of the CAL3QHC model which allows for the incorporation of hourly traffic volumes factors, hourly emission factors and meteorological data. Five years of meteorological (2012-2016) from La Guardia International Airport and concurrent upper air data from Brookhaven, New York, will be utilized for the simulation program. Off-peak traffic volumes will be determined by adjusting the peak period volumes by the 24-hour distributions of actual vehicle counts collected at appropriate locations.

Multiple receptors (i.e., precise locations at which concentrations are predicted) will be modeled at each of the selected sites, and placement of the receptors will follow the guidance in the 2014 CEQR Technical Manual. Receptors will be placed along the approach and departure links at spaced intervals. Ground-level receptors will be placed at sidewalk or roadside locations near intersections with continuous public access, at a pedestrian height of 1.8 meters. Based on the DEP guidance for neighborhood-scale corridor PM modeling, receptors in that analysis will be placed at a distance of 15 meters from the nearest moving lane at each analysis location.

1.2 PARKING GARAGE ANALYSIS

It is anticipated that a total increment of 38 additional on-site parking spaces would be generated by the proposed development project. The threshold is an increment of 85 spaces between the No Acton and With Action scenarios. Therefore, a detailed analysis is not necessary.

1.3 STATIONARY SOURCE ANALYSIS

1.3.1 HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) SYSTEMS

The analysis of the heating, ventilating, and air conditioning (HVAC) system(s) will consider impacts following the procedures outlined in the *CEQR Technical Manual. T*he potential for

"Project on Existing impacts" and "Project-on-Project impacts" for both Projected and Potential Development Sites will be assessed. The nearest existing building and/or Projected/Potential development of a similar or greater height will be analyzed as the potential receptor. Because information on the HVAC systems' design is not available, it will be assumed that exhaust stacks would be located 3 feet above roof height (as per the 2014 CEQR Technical Manual), and that No. 2 fuel oil may be utilized.

The screening and refined analyses will be conducted in accordance with the following steps until a passing result is obtained:

1. Fuel oil operation using the graphical screening procedure for fuel oil firing;
2. Natural gas operation using the graphical screening procedure for natural gas firing;
3. Refined analysis for natural gas operation;
4. Further refined analysis for natural gas using a taller stack or increased setback; and
5. Further analysis for natural gas using a low NO_x (natural gas) boiler.

If the results indicate that the first step using fuel oil is not adequate, then an E-designation would be required outlining the use of natural gas and possibly the need for a taller stack, increased setback and/or low NO_x boiler. If the results for Steps 1 demonstrate compliance, then the Proposed Action would result in no potential significant adverse air quality impacts using No. 2 fuel oil.

Refined Dispersion Analysis for Individual HVAC Systems

If the screening analysis demonstrates the potential for an air quality impact, a refined modeling analysis will be performed. The CEQR TM indicates that the detailed analysis can be conducted using AERSCREEN, however AERMOD is more suitable for this project due to the close proximity of the sites. The latest version of the AERMOD model will be used. Concentrations of nitrogen dioxide (NO_2), and particulate matter ($PM_{2.5}$) will be determined at off-site receptors sites, as well as on Projected and Potential Development Site receptors. Receptors will be situated at elevated locations that could represent operable windows and outside air intakes. Pedestrian level receptors will not be included as the HVAC sources will be located at roof level, and the worst-case impacts will occur at elevated levels. AERMOD will be run with and without building downwash (the downwash option accounts for the effects on plume dispersion created by the structure the stack is located on, and other nearby structures).

Fuel consumption will be estimated based on procedures outlined in the *CEQR Technical Manual*. Emission factors from the fuel oil and natural gas combustion sections of the U.S. EPA's AP-42 will be used to calculate emission rates for the proposed development's heat and hot water system. Annual NO_2 concentrations from heating and hot water sources will be estimated using a NO_2 to NO_x ratio of 0.75, as described in the EPA's Guideline on Air Quality Models at 40 CFR part 51 Appendix W, Section 5.2.4.10

One-hour average NO_2 concentrations associated with the proposed development's hot water systems will be estimated using AERMOD model's Plume Volume Molar Ratio Method (PVMRM) module to analyze chemical transformation within the model. An initial NO_2 to NO_x ratio of ten percent at the source exhaust stack will be assumed, which is considered representative for boilers.

For the refined dispersion analysis, five years of meteorological data (2012-2016) from La Guardia International Airport and concurrent upper air data from Brookhaven, New York, will be utilized for the simulation program. Predicted values will be compared with National Ambient Air Quality Standards (NAAQS) for NO_2, and PM_{10}, and the CEQR *de minimis* criteria for $PM_{2.5}$. In the event that exceedances are predicted, an air quality E-designation would be proposed for the Projected or Potential Development Site that would describe the fuel and/or HVAC exhaust stack restrictions that would be required to avoid a significant adverse air quality impact.

Cumulative Impact from HVAC Systems (Cluster Analysis)

A cumulative impact analysis will be performed for development sites with a similar height located in close proximity to one another (i.e., site clusters). Predicted values will be compared with National Ambient Air Quality Standards (NAAQS) for NO_2 and the City's CEQR *de minimis* criteria for $PM_{2.5}$ (similar to the refined analysis for individual HVAC sources). The Projected and Potential Development Sites within the proposed rezoning area will be studied to determine cluster selection for analysis of a group of sources that could result in a cumulative impact of concern.

Development sites will be evaluated for grouping based on the following criteria:

- Density and scale of development;
- Similarity of height; and
- Proximity to other buildings of a similar or greater height.

Based on the above approach, we expect that two clusters will be selected for analysis. Final selection of the specific cluster location for modeling will be determined and submitted to DCP for review.

The cluster will be assessed using AERMOD, following the same methodology as described above for the individual HVAC analysis. The analysis will focus on existing buildings or other Projected or Potential Development Sites which are of a similar or greater height than the source cluster.

1.3.2 INDUSTRIAL SOURCE ANALYSIS

A field survey will be conducted to determine if there are any existing industrial facilities within 400 feet of the Project Site.

A review of the New York City Department of Environmental Protection (DEP) Clean Air Tracking System (CATS) will be performed to determine if there are any current permits associated with any sites identified in the survey.

If an industrial source is identified within 400 feet of the site, a detailed industrial source analysis will be conducted.

1.3.3 LARGE OR MAJOR SOURCES

A review of existing large and major sources of emissions (i.e., sources having a Title V or State Facility Air Permit) within 1,000 feet of the Project Site will be performed to assess potential effects on Project Site. A search for Title V and State Facility Air Permits will be conducted using registration lists maintained by NYSDEC and EPA.

If a large or major emission source is identified, a refined analysis will be conducted.

APPENDIX F: NOISE ASSESSMENT REPORT

Cerami

404 Fifth Avenue New York NY 10018
212 370 1776 ceramiassociates.com

Memorandum

Date: August 10, 2017

To: Chris Lee / EARD

From: Caitlin Ormsbee / Cerami

CC: Michael Keane / Langan

Project Name: Enclave – 241st Street Rezoning

C&A Project No.: 31002

Comments:

The purpose of this memorandum is to outline the noise monitoring and analysis approach for the proposed development site for the Enclave East 241st Street Rezoning Environmental Assessment Statement (EAS).

The project area is bounded by East 241st Street to the north, Furman Avenue to the east, East 240th Street to the south, and White Plains Road to the west. The No. 2 subway line and 241st Street-Wakefield Avenue subway station are adjacent to the project site, as is the MTA 239th Street Rail Yard.

The Proposed Action would facilitate construction of a 9-story, approximately 207,925 gsf mixed-use building on Block 5087, Lots 1, 9 and 12. The proposed mixed-use building would include (i) approximately 159,875 gsf of residential space (193 dwelling units, 100 percent of which would be permanently affordable); (ii) approximately 24,972 gsf of ground floor commercial space; and (iii) approximately 23,078 gsf of below-grade parking (46 spaces). In addition to the project site, the remainder of Block 5087 is being rezoned.

Below is a summary of the selected noise monitoring locations and noise monitoring approach to determine existing ambient noise levels within the rezoning area. The measured noise levels will be used in the noise analysis to determine 1) any locations where there is potential for the RWCDS associated with and without the Proposed Actions to result in significant noise impacts (i.e., doubling Noise Passenger Car Equivalents [PCEs]), using the CEQR PCE analyses and/or TNM analyses and 2) what level of building attenuation is necessary to provide acceptable interior noise levels at each development site under guidelines set forth by the *2014 CEQR Technical Manual*.

Noise Receptor Locations

A previous measurement was taken along East 241st Street. To expand the study area to the entire block, additional measurements will be taken. Train traffic noise is the dominant noise source in the study area; vehicular and stationary sources (e.g., building HVAC equipment) also contribute to noise levels.

Proposed noise receptor locations were selected based on the following:

- Locations of the projected and potential development sites under the RWCDS

- Allowing for complete geographic coverage across the study areas to account for comprehensive study of the ambient noise environment
- Existing land use patterns (e.g., near major roadways, existing railways, stationary noise sources)

A total of 4 additional receptor sites will be selected for the noise analysis in the rezoning area.

Noise Monitoring/Prediction
Noise measurements will consist of:

Duration	# of Measurements	Notes
24-hour	1	At train rail yard
20-minutes	3	At street level (East 240th Street, White Plains Road) and elevated rail (241st Street Station)

All 20-minute measurements will be taken during peak weekday AM, midday, PM traffic periods. Traffic and/or train counts will be included during all 20-minute measurements. Figure 1 shows the locations of the receptor sites.

Measurements will be performed using Sound Level Meter (SLM) Type 1 instruments according to ANSI Standard S1.4-1983 (R2006). The SLMs will be field calibrated with a calibrator that has a laboratory calibration date within one year of the date of the measurements. All measurement procedures will be based on the guidelines outlined in ANSI Standard S1.13-2005.

Noise measurements will include all vehicular traffic, air traffic, and railway traffic noise and the recommended attenuation levels within the study area will take these sources into account in order to determine acceptable interior noise levels. Vehicle and train counts will be taken at all locations.

The traffic analysis has already concluded that a significant noise impact would not occur as a result of a doubling of PCEs.

E-Designation
The measured noise levels, specifically the maximum L_{10} value, will be used to place an E-Designation on the projected and potential development sites, as necessary to meet the interior noise requirements of the *CEQR Technical Manual*. In addition to window/wall attenuation requirements, the E-Designation will include a requirement for an alternate means of ventilation so that a closed-window condition can be maintained. Building mechanical systems will be assumed to be designed to meet all applicable noise regulations to avoid producing levels that would result in any significant increase in ambient noise levels.

J:\30000-30499\30180\REPORTS\2016-09-27 Bay Street Corridor Rezoning Noise Protocol.docx

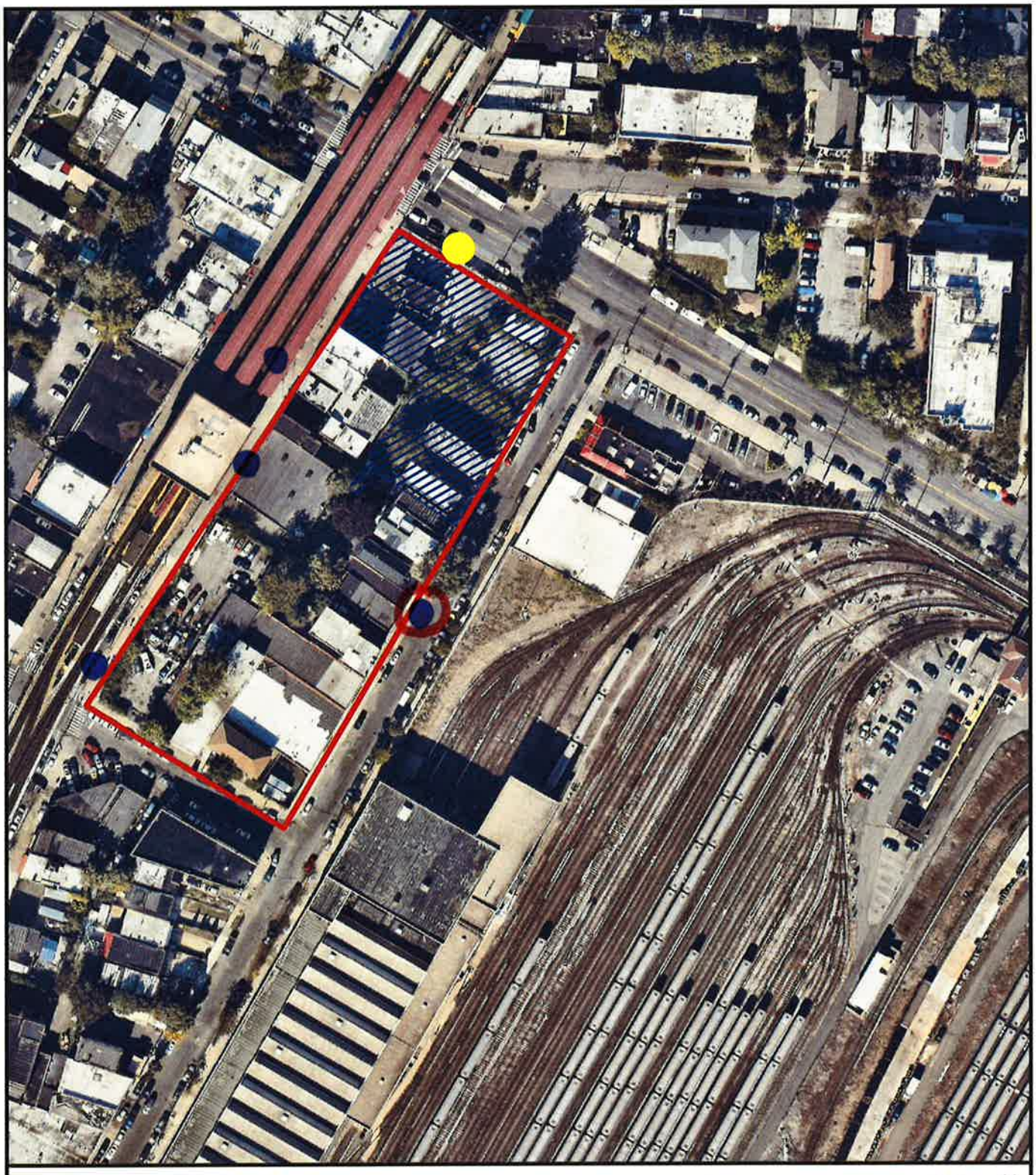


FIGURE 19: NOISE MEASUREMENT
EAST 241ST STREET REZONING

WAKEFIELD, BRONX, NY

Map Reference: MTA Subway Map

INSTRUMENT CALIBRATION REPORT

Pine Environmental Services, LLC.
92 North Main St, Building 20
Windsor, NJ 08561
Toll-free: (800) 301-9663

Pine Environmental Services, Inc.

Instrument ID 24411
Description Quest SoundPro DL-1
Calibrated 11/3/2016 1:59:41PM

Manufacturer	Quest	**State Certified**	
Model Number	SoundPro DL-1	**Status**	Pass
Serial Number/ Lot Number	BJM120007	**Temp °C**	25.3
Location	New Jersey	**Humidity %**	46
Department			

Calibration Specifications

Group # 1
Group Name 114DB WITH QC-10 /QUEST CAL
Test Performed: Yes **As Found Result: Pass** **As Left Result: Pass**

Test Instruments Used During the Calibration **(As Of Cal Entry Date)**

Test Standard ID	Description	Manufacturer	Model Number	Serial Number / Lot Number	Next Cal Date / Last Cal Date/ Expiration Date Opened Date

Notes about this calibration

Calibration Result Calibration Successful
Who Calibrated Dave German

All instruments are calibrated by Pine Environmental Services, LLC. according to the manufacturer's specifications, but it is the customer's responsibility to calibrate and maintain this unit in accordance with the manufacturer's specifications and/or the customer's own specific needs.

Notify Pine Environmental Services, LLC. of any defect within 24 hours of receipt of equipment
Please call 866-960-7463 for Technical Assistance

Enclave 241st Street: Morning (1) Session Report

11/17/2016

Information Panel

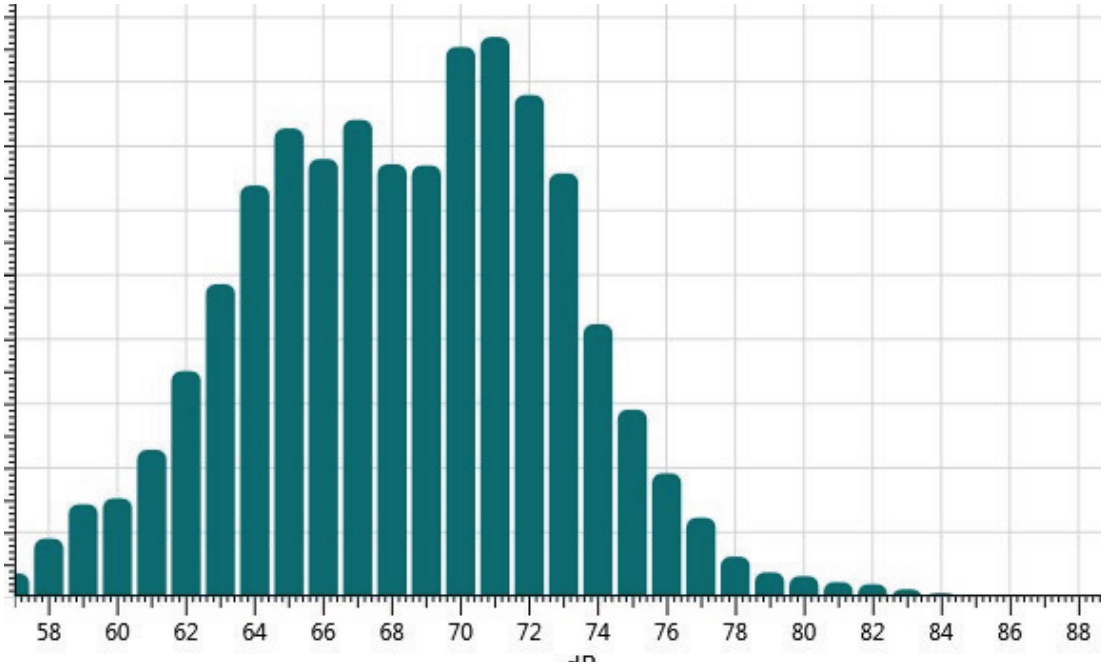
Name	Enclave 241st Noise Assessment (Morning 1)
Start Time	11/16/2016 7:01:40 AM
Stop Time	11/16/2016 8:01:40 AM
Device Name	BJM120007
Model Type	SoundPro DL
Device Firmware Rev	R.13E
Comments	Weather: Clear, Sunny (47 Degrees) Wind: Approximately 9 mph Potentially Impacting Events: 1) Idling School Bus for approximately 15 minutes 2) Idling DSNY Truck for approximately 8 minutes

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
L50	1	68.9 dB	L90	1	62.8 dB
Leq	1	71.2 dB	Lmax	1	86.6 dB
Lmin	1	57.3 dB			
Bandwidth	1	OFF	Exchange Rate	1	3 dB
Response	1	SLOW	Weighting	1	A
Exchange Rate	2	5 dB	Response	2	FAST
Weighting	2	C			

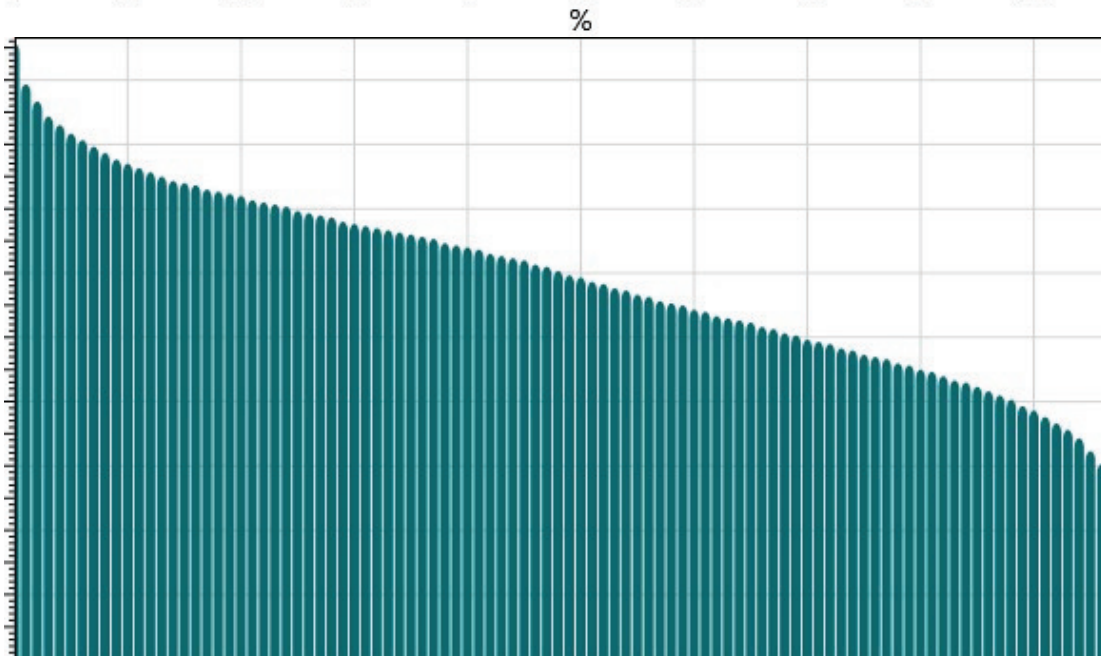
Statistics Chart

Enclave 241st Noise Assessment (Morning 1): Statistics Chart



Exceedance Chart

Enclave 241st Noise Assessment (Morning 1): Exceedance Chart

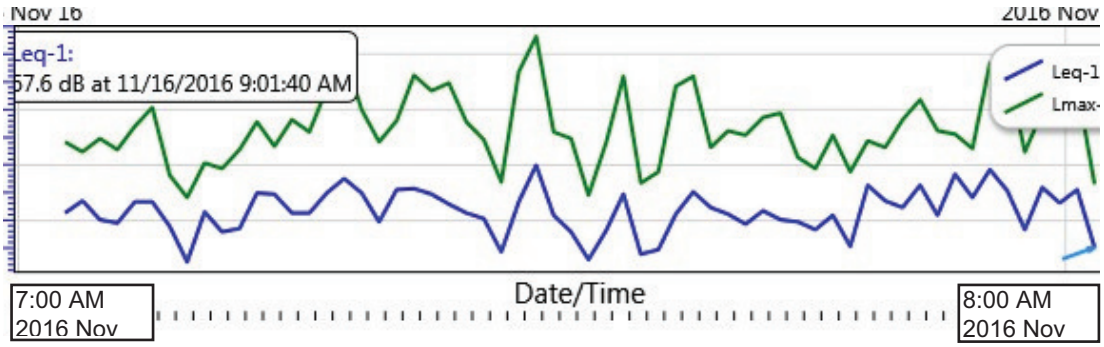


Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		79.7	77.8	77.0	76.3	75.9	75.5	75.2	74.9	74.6
10%:	74.3	74.1	73.9	73.7	73.5	73.3	73.2	73.1	72.9	72.8
20%:	72.7	72.6	72.4	72.3	72.2	72.1	71.9	71.8	71.7	71.6
30%:	71.4	71.3	71.2	71.1	71.0	70.9	70.8	70.7	70.6	70.4
40%:	70.3	70.2	70.1	69.9	69.8	69.7	69.6	69.4	69.3	69.1
50%:	68.9	68.8	68.6	68.5	68.3	68.2	68.0	67.9	67.7	67.6
60%:	67.5	67.3	67.2	67.0	66.9	66.8	66.7	66.5	66.4	66.2
70%:	66.1	65.9	65.8	65.7	65.5	65.4	65.2	65.1	65.0	64.8
80%:	64.7	64.5	64.4	64.2	64.0	63.9	63.7	63.5	63.3	63.1
90%:	62.8	62.6	62.3	62.0	61.7	61.3	60.7	60.1	59.4	58.6
100%:	57.2									

Logged Data Chart

Enclave 241st Noise Assessment (Morning 1): Logged Data Chart



Enclave 241st Street: Morning (2)Session Report

11/17/2016

Information Panel

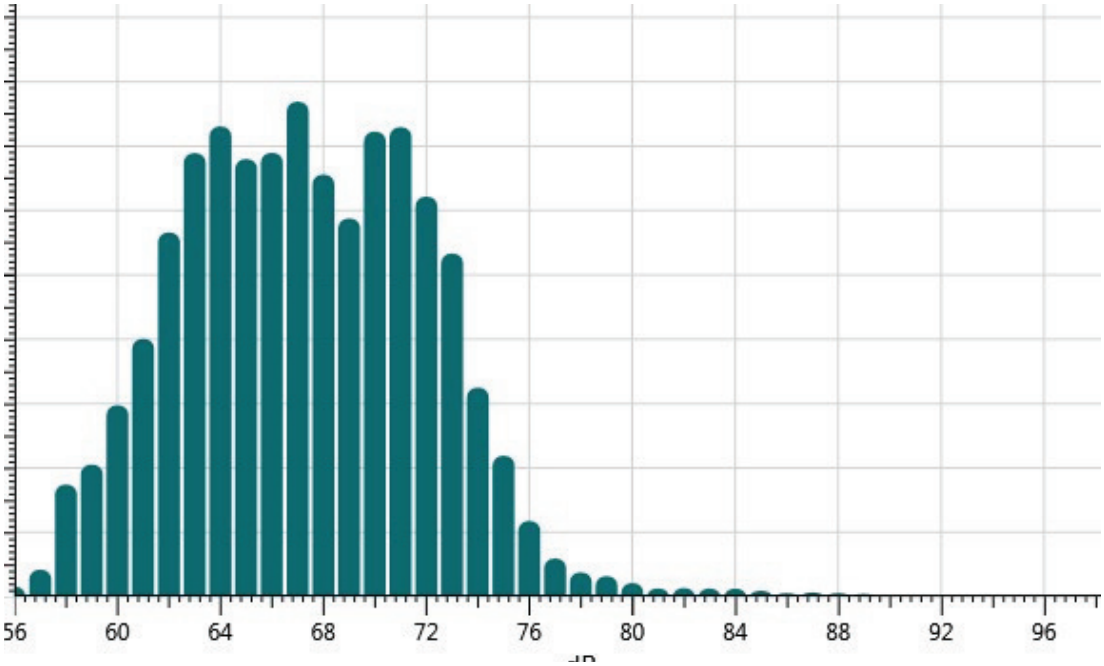
Name	Enclave 241st Noise Assessment (Morning 2)
Start Time	11/16/2016 8:05:40 AM
Stop Time	11/16/2016 9:05:40 AM
Device Name	BJM120007
Model Type	SoundPro DL
Device Firmware Rev	R.13E
Comments	Weather: Clear, Sunny (50 Degrees) Wind: Approximately 9 mph Potentially Impacting Events: 1) Idling DSNY Truck for approximately 15 minutes

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
L50	1	67.5 dB	L90	1	61.6 dB
Leq	1	71 dB	Lmax	1	90.4 dB
Lmin	1	56.2 dB			
Bandwidth	1	OFF	Exchange Rate	1	3 dB
Response	1	SLOW	Weighting	1	A
Exchange Rate	2	5 dB	Response	2	FAST
Weighting	2	C			

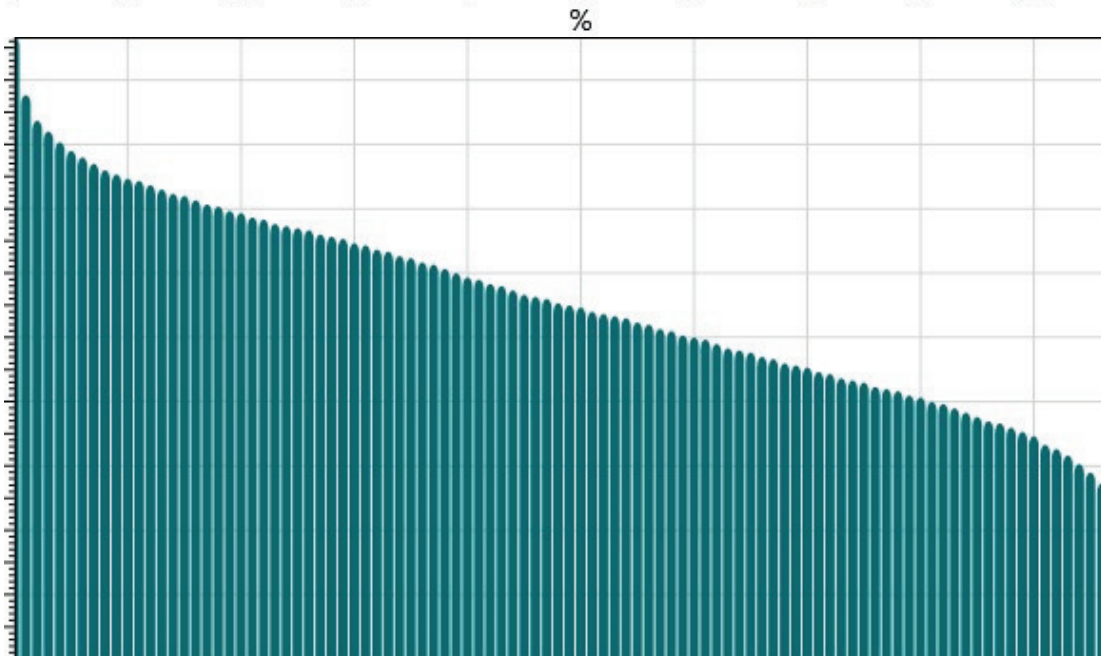
Statistics Chart

Enclave 241st Noise Assessment (Morning 2): Statistics Chart



Exceedance Chart

Enclave 241st Noise Assessment (Morning 2): Exceedance Chart

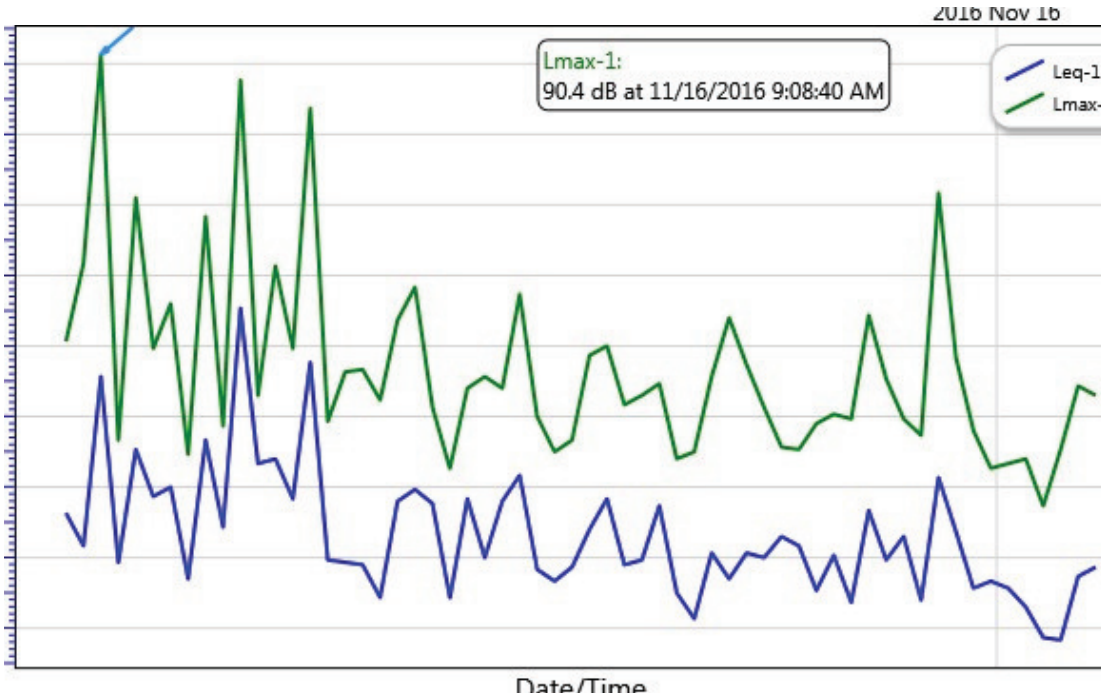


Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		80.0	77.3	76.1	75.6	75.1	74.7	74.4	74.1	73.8
10%:	73.6	73.4	73.3	73.1	72.9	72.7	72.6	72.4	72.2	72.1
20%:	71.9	71.8	71.6	71.5	71.3	71.2	71.1	71.0	70.8	70.7
30%:	70.6	70.4	70.3	70.1	70.0	69.8	69.7	69.5	69.4	69.2
40%:	69.0	68.8	68.7	68.5	68.4	68.2	68.0	67.9	67.8	67.6
50%:	67.5	67.4	67.2	67.1	67.0	66.9	66.7	66.6	66.4	66.3
60%:	66.1	66.0	65.9	65.7	65.5	65.4	65.3	65.1	65.0	64.8
70%:	64.7	64.6	64.4	64.3	64.1	64.0	63.9	63.7	63.6	63.5
80%:	63.3	63.2	63.0	62.9	62.7	62.5	62.3	62.1	62.0	61.8
90%:	61.6	61.4	61.0	60.8	60.5	60.1	59.7	59.2	58.7	58.2
100%:	56.1									

Logged Data Chart

Enclave 241st Noise Assessment (Morning 2): Logged Data Chart



Enclave 241st Street: Midday Session Report

11/17/2016

Information Panel

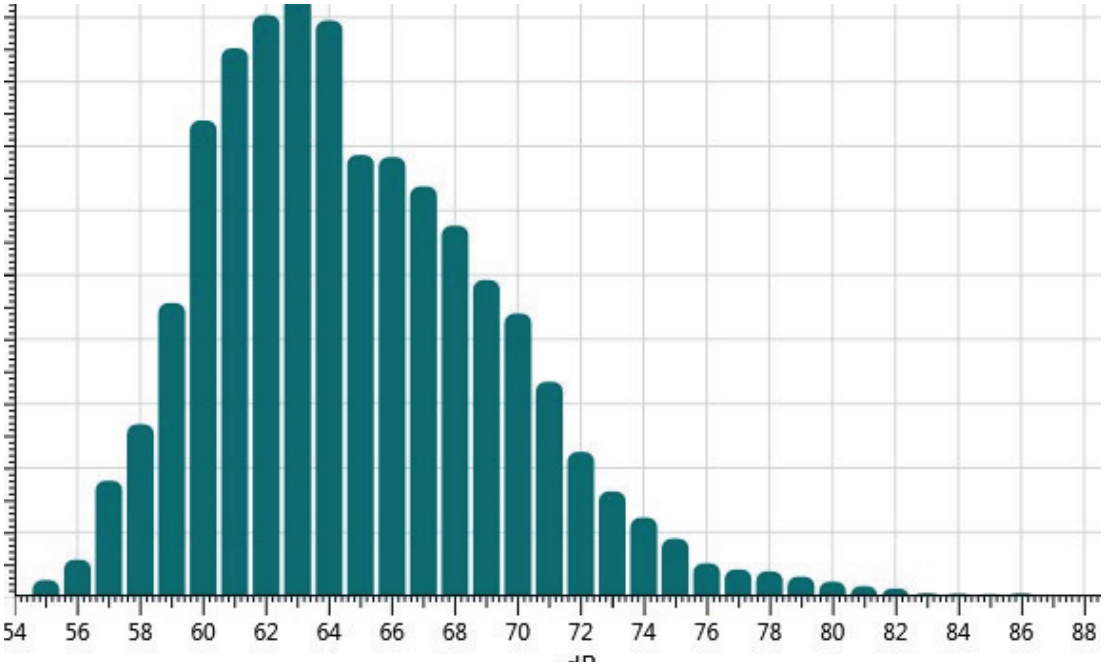
Name	Enclave 241st Noise Assessment (Midday)
Start Time	11/16/2016 12:00:12 PM
Stop Time	11/16/2016 1:00:12 PM
Device Name	BJM120007
Model Type	SoundPro DL
Device Firmware Rev	R.13E
Comments	Weather: Clear, Sunny (60 Degrees) Wind: Approximately 10 mph

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
L50	1	64.5 dB	L90	1	59.9 dB
Leq	1	68.6 dB	Lmax	1	86.8 dB
Lmin	1	54.9 dB			
Bandwidth	1	OFF	Exchange Rate	1	3 dB
Response	1	SLOW	Weighting	1	A
Exchange Rate	2	5 dB	Response	2	FAST
Weighting	2	C			

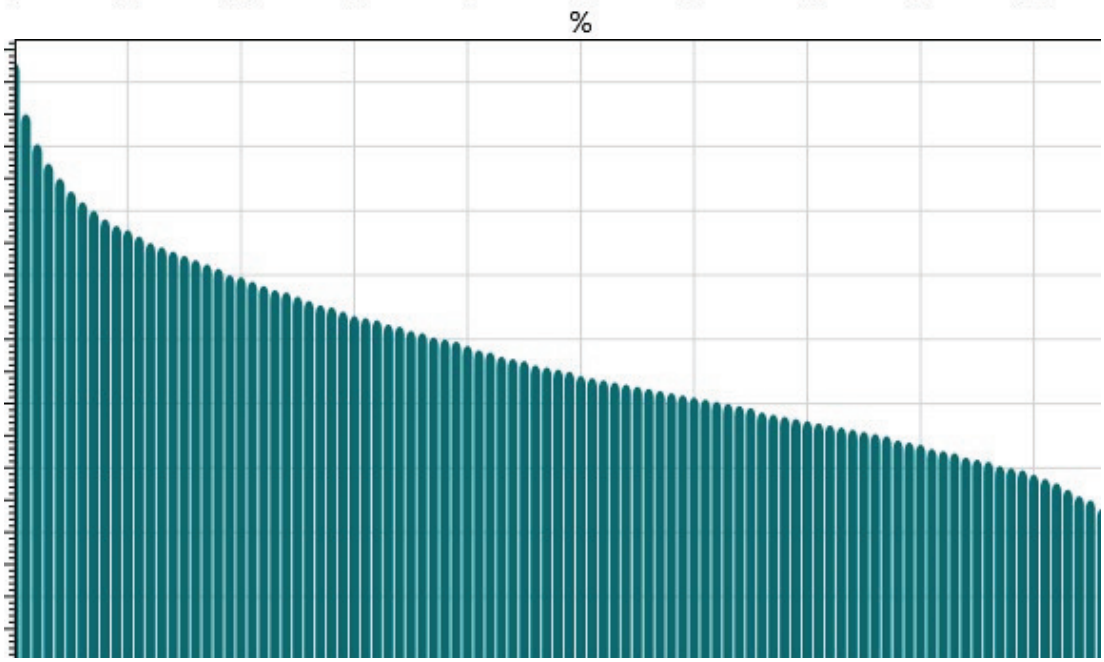
Statistics Chart

Enclave 241st Noise Assessment: Statistics Chart



Exceedance Chart

Enclave 241st Noise Assessment: Exceedance Chart

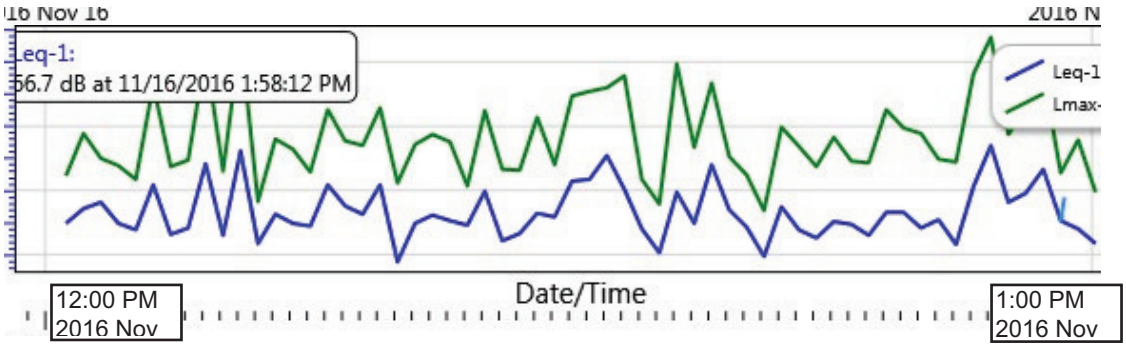


Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		78.9	76.5	75.1	74.2	73.5	72.9	72.4	72.0	71.6
10%:	71.3	71.1	70.8	70.5	70.3	70.1	69.9	69.7	69.5	69.3
20%:	69.0	68.9	68.7	68.5	68.3	68.2	68.0	67.8	67.6	67.5
30%:	67.3	67.1	67.0	66.9	66.7	66.6	66.4	66.3	66.1	66.0
40%:	65.9	65.7	65.5	65.4	65.2	65.1	65.0	64.8	64.7	64.6
50%:	64.5	64.3	64.2	64.1	64.0	63.9	63.8	63.7	63.6	63.5
60%:	63.4	63.3	63.2	63.1	63.0	62.9	62.8	62.6	62.5	62.4
70%:	62.3	62.2	62.1	62.0	61.9	61.8	61.7	61.6	61.5	61.3
80%:	61.2	61.1	60.9	60.8	60.7	60.5	60.4	60.3	60.1	60.0
90%:	59.9	59.7	59.5	59.3	59.0	58.7	58.5	58.1	57.5	57.0
100%:	54.8									

Logged Data Chart

Enclave 241st Noise Assessment: Logged Data Chart



Enclave 241st Street: Evening Session Report

11/17/2016

Information Panel

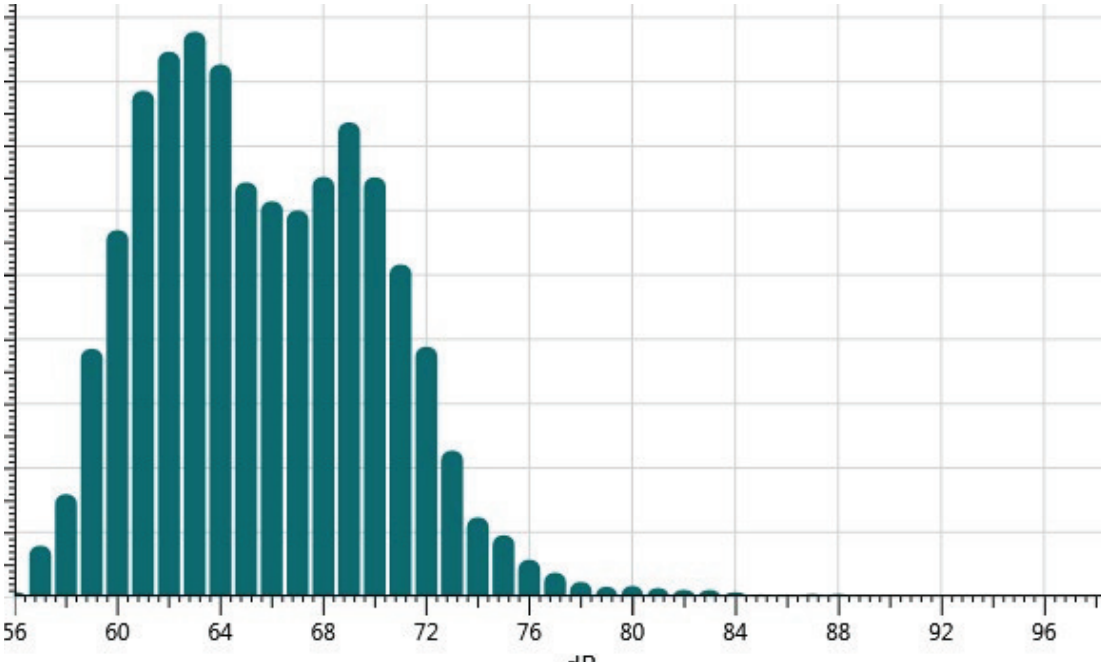
Name	Enclave 241st Noise Assessment (Evening)
Start Time	11/16/2016 4:58:44 PM
Stop Time	11/16/2016 5:59:13 PM
Device Name	BJM120007
Model Type	SoundPro DL
Device Firmware Rev	R.13E
Comments	Weather: Partly Cloudy (57 Degrees) Wind: Approximately 10 mph

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
L50	1	65.5 dB	L90	1	60.6 dB
Leq	1	69.6 dB	Lmax	1	91.2 dB
Lmin	1	56.5 dB			
Bandwidth	1	OFF	Exchange Rate	1	3 dB
Response	1	SLOW	Weighting	1	A
Exchange Rate	2	5 dB	Response	2	FAST
Weighting	2	C			

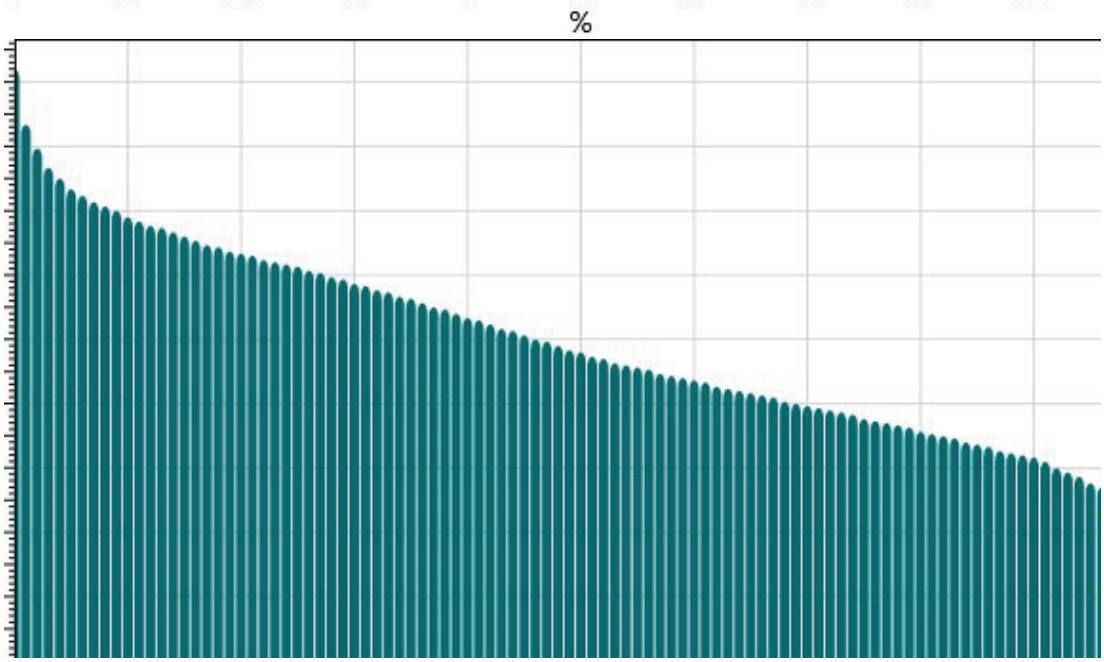
Statistics Chart

Enclave 241st Noise Assessment (Evening): Statistics Chart



Exceedance Chart

Enclave 241st Noise Assessment (Evening): Exceedance Chart



Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		78.6	76.0	74.9	74.0	73.5	73.0	72.7	72.4	72.2
10%:	72.0	71.7	71.5	71.3	71.2	71.0	70.8	70.6	70.4	70.3
20%:	70.1	70.0	69.9	69.7	69.6	69.5	69.4	69.2	69.1	68.9
30%:	68.8	68.6	68.5	68.3	68.2	68.0	67.9	67.7	67.5	67.4
40%:	67.2	67.0	66.9	66.7	66.5	66.4	66.2	66.0	65.9	65.7
50%:	65.5	65.4	65.2	65.1	64.9	64.8	64.7	64.6	64.4	64.3
60%:	64.2	64.1	64.0	63.8	63.7	63.6	63.5	63.4	63.3	63.1
70%:	63.0	62.9	62.8	62.7	62.6	62.5	62.3	62.2	62.1	62.0
80%:	61.9	61.7	61.6	61.5	61.4	61.2	61.1	61.0	60.8	60.7
90%:	60.6	60.5	60.3	60.0	59.8	59.6	59.3	59.1	58.6	58.0
100%:	56.4									

Logged Data Chart

Enclave 241st Noise Assessment (Evening): Logged Data Chart

