APPENDIX F

AIR QUALITY

Herkimer-Williams - Industrial Source Analysis Emissions Profile

Use	Number of Permits	Representative Processes Included	CAS No: Pollutant	Emissions (ST) (lb/hr) 93rd Percentile	Emissions (AN) (lb/yr) 93rd Percentile
Book binding/tooling (by hand)	35				
		Dryers, spay booths, printing, sanding and paper treatment	NY075-00-0: PARTICULATES	0.071	-
			00064-19-7: ACETIC ACID	0.001	0.50
			00067-63-0: ISOPROPYL ALCOHOL	0.066	105.42
			00071-55-6: METHYL CHLOROFORM	0.03	23.00
			00075-09-2: DICHLOROMETHANE	0.29	588.00
			00078-93-3: METHYL ETHYL KETONE	0.43	665.28
			00108-88-3: TOLUENE	0.7	140.00
			00123-86-4: BUTYL ACETATE	0.22	-
			07664-93-9: SULFURIC ACID	0.001	2.00
Custom manufacturing/altering for retail	37				
		Laundry, drying, dyeing, silk screening, and painting of textiles	00630-08-0: CARBON MONOXIDE	0.070	-
			NY075-00-0: PARTICULATES	0.064	-
			10102-44-0: NITROGEN DIOXIDE	0.006	92.00
			07446-09-5: SULFUR DIOXIDE	0.021	22.85
			00064-19-7: ACETIC ACID	0.17	336.00
			00095-50-1: DICHLOROBENZINE, ortho	0.030	60.50
			00108-88-3: TOLUENE	0.32	375.00
			00120-82-1: TRICHCLORO BENZENE	0.17	-
			07664-41-7: AMMONIA	0.049	97.76
			10102-43-9: NITROGEN OXIDE	-	998.00
Precision instrument/jewelry manufacturing	243				
		Metal cleaning, metal polishing, soldering, acid hood, and stone cutting	00630-08-0: CARBON MONOXIDE	0.088	-
			NY075-00-0: PARTICULATES	0.11	-
			07446-09-5: SULFUR DIOXIDE	0.004	5.65
			00067-56-1: METHANOL	0.001	0.50
			00074-90-8: HYDROGEN CYANIDE	0.08	1.13
			00079-01-6: TRICHLOROETHYLENE	0.75	1500.00
			00143-33-9: SODIUM CYANIDE	0.003	2.23
			01310-73-2: SODIUM HYDROXIDE	0.002	-
			07647-01-0: HYDROGEN CHLORIDE	0.30	127.36
			07664-39-3: HYDROGEN FLUORIDE	0.001	0.50
			07664-41-7: AMMONIA	0.65	16.64
			07664-93-9: SULFURIC ACID	0.002	2.86
			07697-37-2: NITRIC ACID	0.02	96.56
			07782-50-5: CHLORINE	0.001	0.40
			00078-83-1: ISOBUTYL ALCOHOL	-	10368.00
			10102-43-9: NITROGEN OXIDE	-	66.26

Herkimer-Williams - Industrial Source Analysis Emissions Profile

Use	Number of Permits	Representative Processes Included	CAS No: Pollutant	Emissions (ST) (lb/hr) 93rd Percentile	Emissions (AN) (lb/yr) 93rd Percentile
			64742-65-0: DISTILLATE HEAVY PARAFINIC	-	0.80
Musical instrument manufacturing (no pianos or organs)	58				
		Instrument manufacturing	NY075-00-0: PARTICULATES	0.11	-
			00067-63-0: ISOPROPYL ALCOHOL	1.02	1911.50
			00067-64-1: ACETONE	0.59	439.00
			00078-93-3: METHYL ETHYL KETONE	0.61	246.90
			00108-88-3: TOLUENE	1.74	1047.36
			00123-86-4: BUTYL ACETATE	0.51	-
			00078-83-1: ISOBUTYL ALCOHOL	-	2105.57
Custom printing (no limit in C6)	599				
		Printing and drying	00630-08-0: CARBON MONOXIDE	0.31	-
			NY075-00-0: PARTICULATES	0.13	-
			10102-44-0: NITROGEN DIOXIDE	0.004	6.10
			07446-09-5: SULFUR DIOXIDE	0.03	56.59
			00064-19-7: ACETIC ACID	0.03	129.72
			01333-86-4: CARBON BLACK	-	31.76
			00067-56-1: METHANOL	0.36	1405.46
			00067-63-0: ISOPROPYL ALCOHOL	4.56	12264.00
			00067-64-1: ACETONE	0.96	491.04
			00071-55-6: METHYL CHLOROFORM	0.25	568.98
			00075-09-2: DICHLOROMETHANE	1.19	1138.58
			00078-93-3: METHYL ETHYL KETONE	0.002	3.44
			00107-21-1: ETHYLENE GLYCOL	0.09	198.88
			00108-88-3: TOLUENE	0.31	202.04
			00112-34-5: BUTYL CARBITOL	0.16	337.21
			00123-86-4: BUTYL ACETATE	0.12	-
			01310-73-2: SODIUM HYDROXIDE	0.001	-
			07664-39-3: HYDROGEN FLUORIDE	0	0.01
			07664-41-7: AMMONIA	0.93	1792.56
			07664-93-9: SULFURIC ACID	0.004	33.78
			07697-37-2: NITRIC ACID	0.02	8.36
			10102-43-9: NITROGEN OXIDE	-	527.48
Household/office equipment or machinery repair shops	25				
		Metal working, Plastic working, Paint Bake Oven, Metal Cleaning, Ink Mixing, Welding	00630-08-0: CARBON MONOXIDE	0.03	-
			NY075-00-0: PARTICULATES	0.047	-
			07446-09-5: SULFUR DIOXIDE	0.001	3.20
			00067-64-1: ACETONE	0.6	960.00
			00123-86-4: BUTYL ACETATE	0.001	-

Herkimer-Williams - Industrial Source Analysis Emissions Profile

Use	Number of Permits	Representative Processes Included	CAS No: Pollutant	Emissions (ST) (lb/hr) 93rd Percentile	Emissions (AN) (lb/yr) 93rd Percentile
			00078-83-1: ISOBUTYL ALCOHOL	-	288.00
Apparel or other textile product manufacturing	37				
		Laundry, drying, dyeing, silk screening, and painting of textiles	00630-08-0: CARBON MONOXIDE	0.07	-
			NY075-00-0: PARTICULATES	0.06	-
			10102-44-0: NITROGEN DIOXIDE	0.006	92.0
			07446-09-5: SULFUR DIOXIDE	0.021	22.8
			00064-19-7: ACETIC ACID	0.17	336.0
			00095-50-1: DICHLOROBENZINE, ortho	0.030	60.5
			00108-88-3: TOLUENE	0.32	375.0
			00120-82-1: TRICHCLORO BENZENE	0.17	-
			07664-41-7: AMMONIA	0.05	97.8
			10102-43-9: NITROGEN OXIDE	-	998.0
Fur good manufacturing (excl. tanning/dyeing)	41				
		Textile Drying, Printing, General Exhaust	00630-08-0: CARBON MONOXIDE	0.126	-
			NY075-00-0: PARTICULATES	0.060	-
			07446-09-5: SULFUR DIOXIDE	0.005	9.18
Soap or detergent packaging	60				
		Acid mixing, wax mixing, grinding and blending of soaps	00630-08-0: CARBON MONOXIDE	0.002	-
			NY075-00-0: PARTICULATES	0.058	-
			07446-09-5: SULFUR DIOXIDE	0.005	9.41
			00151-50-8: POTASSIUM CYANIDE	0.001	1.60
			01310-73-2: SODIUM HYDROXIDE	0.001	-
			07647-01-0: HYDROGEN CHLORIDE	0.010	0.64
			07664-41-7: AMMONIA	0.001	1.60
			07664-93-9: SULFURIC ACID	0.003	0.003
			07697-37-2: NITRIC ACID	0.001	2.00
Textile spinning, weaving, manufacturing, dyeing, printing	41				
		Silk screening, drying	00630-08-0: CARBON MONOXIDE	0.13	-
			NY075-00-0: PARTICULATES	0.060	-
			07446-09-5: SULFUR DIOXIDE	0.0046	9.18

Appendix F-2-1
Herkimer-Williams
Project Industrial Sources--Air Toxic Concentrations (ug/m^3)

Use Groups & Pollutants	SGC (ug/m3)	Project Industrial Source Analysis (1) (2) (3) — Short-Term Time Period: Rooftop Vertical Exhaust Stack Site 1E	Rooftop Vertical Exhaust Stack Site 2B	Façade Horizontal Exhaust Stack Site 1E	Rooftop Horizontal Exhaust Stack Site 2B	AGC (ug/m3)	Annual Time Period: Rooftop Vertical Exhaust Stack Site 1E	Rooftop Vertical Exhaust Stack Site 2B	Façade Horizontal Exhaust Stack Site 1E	Rooftop Horizontal Exhaust Stack Site 2B
Book binding/tooling (by hand)										
00630-08-0: CARBON MONOXIDE	40000	---	---	---	---	-----	---	---	---	---
NY075-00-0: PARTICULATES	150	1.19E+00	4.65E+00	1.65E+01	5.12E+00	-----	---	---	---	---
10102-44-0: NITROGEN DIOXIDE	188	---	---	---	---	100	---	---	---	---
07446-09-5: SULFUR DIOXIDE	196	---	---	---	---	80	---	---	---	---
00064-19-7: ACETIC ACID	3700	1.32E-01	1.71E-01	1.21E+00	1.93E-01	60	1.52E-04	2.53E-04	1.87E-03	2.81E-04
00067-56-1: METHANOL	33000	---	---	---	---	4000	---	---	---	---
00067-63-0: ISOPROPYL ALCOHOL	98000	8.66E+00	1.13E+01	7.97E+01	1.27E+01	7000	3.20E-02	5.33E-02	3.93E-01	5.93E-02
00067-64-1: ACETONE	180000	---	---	---	---	30000	---	---	---	---
00071-55-6: METHYL CHLOROFORM	9000	3.95E+00	5.14E+00	3.64E+01	5.80E+00	5000	6.98E-03	1.16E-02	8.58E-02	1.29E-02
00074-90-8: HYDROGEN CYANIDE	340	---	---	---	---	0.8	---	---	---	---
00075-09-2: DICHLOROMETHANE	14000	3.87E+01	5.04E+01	3.56E+02	5.68E+01	46	1.78E-01	2.97E-01	2.19E+00	3.30E-01
00078-93-3: METHYL ETHYL KETONE	13000	5.60E+01	7.28E+01	5.15E+02	8.21E+01	5000	2.02E-01	3.36E-01	2.48E+00	3.74E-01
00079-01-6: TRICHLOROETHYLENE	20	---	---	---	---	0.2	---	---	---	---
00095-50-1: DICHLOROBENZINE, ortho	30000	---	---	---	---	200	---	---	---	---
00107-21-1: ETHYLENE GLYCOL	1000	---	---	---	---	400	---	---	---	---
00108-88-3: TOLUENE	37000	9.22E+01	1.20E+02	8.48E+02	1.35E+02	5000	4.25E-02	7.07E-02	5.22E-01	7.87E-02
00112-34-5: BUTYL CARBITOL	370	---	---	---	---	200	---	---	---	---
00120-82-1: TRICHCLORO BENZENE	3700	---	---	---	---	35	---	---	---	---
00123-86-4: BUTYL ACETATE	71300	2.90E+01	3.77E+01	2.67E+02	4.25E+01	565	---	---	---	---
00143-33-9: SODIUM CYANIDE	380	---	---	---	---	3.5	---	---	---	---
00151-50-8: POTASSIUM CYANIDE	380	---	---	---	---	3.5	---	---	---	---
01310-73-2: SODIUM HYDROXIDE	200	---	---	---	---	-----	---	---	---	---
07647-01-0: HYDROGEN CHLORIDE	2100	---	---	---	---	20	---	---	---	---
07664-39-3: HYDROGEN FLUORIDE	5.6	---	---	---	---	0.071	---	---	---	---
07664-41-7: AMMONIA	2400	---	---	---	---	500	---	---	---	---
07664-93-9: SULFURIC ACID	120	1.32E-01	1.71E-01	1.21E+00	1.93E-01	1	6.07E-04	1.01E-03	7.46E-03	1.12E-03
07697-37-2: NITRIC ACID	86	---	---	---	---	12.3	---	---	---	---
07782-50-5: CHLORINE	116	---	---	---	---	0.2	---	---	---	---
00078-83-1: ISOBUTYL ALCOHOL	-----	---	---	---	---	360	---	---	---	---
10102-43-9: NITROGEN OXIDE	-----	---	---	---	---	74	---	---	---	---
64742-65-0: DISTILLATE HEAVY PARAFINIC	-----	---	---	---	---	3200	---	---	---	---
01333-86-4: CARBON BLACK	-----	---	---	---	---	7	---	---	---	---
Custom manufacturing/altering for retail										
00630-08-0: CARBON MONOXIDE	40000	9.25E+00	1.20E+01	8.51E+01	1.36E+01	-----	---	---	---	---
NY075-00-0: PARTICULATES	150	1.07E+00	4.16E+00	1.48E+01	4.59E+00	-----	---	---	---	---
10102-44-0: NITROGEN DIOXIDE	188	7.91E-01	1.03E+00	7.27E+00	1.16E+00	100	2.79E-02	4.65E-02	3.43E-01	5.17E-02
07446-09-5: SULFUR DIOXIDE	196	2.82E+00	3.66E+00	2.59E+01	4.13E+00	80	6.93E-03	1.15E-02	8.52E-02	1.28E-02
00064-19-7: ACETIC ACID	3700	2.21E+01	2.88E+01	2.04E+02	3.25E+01	60	1.02E-01	1.70E-01	1.25E+00	1.89E-01
00067-56-1: METHANOL	33000	---	---	---	---	4000	---	---	---	---
00067-63-0: ISOPROPYL ALCOHOL	98000	---	---	---	---	7000	---	---	---	---
00067-64-1: ACETONE	180000	---	---	---	---	30000	---	---	---	---
00071-55-6: METHYL CHLOROFORM	9000	---	---	---	---	5000	---	---	---	---
00074-90-8: HYDROGEN CYANIDE	340	---	---	---	---	0.8	---	---	---	---
00075-09-2: DICHLOROMETHANE	14000	---	---	---	---	46	---	---	---	---
00078-93-3: METHYL ETHYL KETONE	13000	---	---	---	---	5000	---	---	---	---
00079-01-6: TRICHLOROETHYLENE	20	---	---	---	---	0.2	---	---	---	---
00095-50-1: DICHLOROBENZINE, ortho	30000	3.95E+00	5.14E+00	3.64E+01	5.80E+00	200	1.84E-02	3.06E-02	2.26E-01	3.40E-02
00107-21-1: ETHYLENE GLYCOL	1000	---	---	---	---	400	---	---	---	---
00108-88-3: TOLUENE	37000	4.22E+01	5.48E+01	3.88E+02	6.18E+01	5000	1.14E-01	1.90E-01	1.40E+00	2.11E-01
00112-34-5: BUTYL CARBITOL	370	---	---	---	---	200	---	---	---	---
00120-82-1: TRICHCLORO BENZENE	3700	2.17E+01	2.83E+01	2.00E+02	3.19E+01	35	---	---	---	---
00123-86-4: BUTYL ACETATE	71300	---	---	---	---	565	---	---	---	---
00143-33-9: SODIUM CYANIDE	380	---	---	---	---	3.5	---	---	---	---
00151-50-8: POTASSIUM CYANIDE	380	---	---	---	---	3.5	---	---	---	---
01310-73-2: SODIUM HYDROXIDE	200	---	---	---	---	-----	---	---	---	---
07647-01-0: HYDROGEN CHLORIDE	2100	---	---	---	---	20	---	---	---	---
07664-39-3: HYDROGEN FLUORIDE	5.6	---	---	---	---	0.071	---	---	---	---

	Project Industrial Source Analysis [1] [2] [3]									
	Short-Term Time Period					Annual Time Period				
	SGC (ug/m3)	Rooftop Vertical Exhaust Stack		Façade Horizontal Exhaust Stack	Rooftop Horizontal Exhaust Stack	AGC (ug/m3)	Rooftop Vertical Exhaust Stack		Façade Horizontal Exhaust Stack	Rooftop Horizontal Exhaust Stack
Use Groups & Pollutants		**Site 1E**	**Site 2B**	**Site 1E**	**Site 2B**		**Site 1E**	**Site 2B**	**Site 1E**	**Site 2B**
07664-41-7: AMMONIA	2400	6.44E+00	8.37E+00	5.92E+01	9.44E+00	500	2.97E-02	4.94E-02	3.65E-01	5.49E-02
07664-93-9: SULFURIC ACID	120	---	---	---	---	1	---	---	---	---
07697-37-2: NITRIC ACID	86	---	---	---	---	12.3	---	---	---	---
07782-50-5: CHLORINE	116	---	---	---	---	0.2	---	---	---	---
00078-83-1: ISOBUTYL ALCOHOL	-----	---	---	---	---	360	---	---	---	---
10102-43-9: NITROGEN OXIDE	-----	---	---	---	---	74	3.03E-01	5.04E-01	3.72E+00	5.61E-01
64742-65-0: DISTILLATE HEAVY PARAFINIC	-----	---	---	---	---	3200	---	---	---	---
01333-86-4: CARBON BLACK	-----	---	---	---	---	7	---	---	---	---
Precision instrument/jewelry manufacturing										
00630-08-0: CARBON MONOXIDE	40000	1.16E+01	1.50E+01	1.06E+02	1.70E+01	-----	---	---	---	---
NY075-00-0: PARTICULATES	150	1.78E+00	6.97E+00	2.48E+01	7.68E+00	-----	---	---	---	---
10102-44-0: NITROGEN DIOXIDE	188	---	---	---	---	100	---	---	---	---
07446-09-5: SULFUR DIOXIDE	196	4.65E-01	6.05E-01	4.28E+00	6.82E-01	80	1.71E-03	2.85E-03	2.11E-02	3.17E-03
00064-19-7: ACETIC ACID	3700	---	---	---	---	60	---	---	---	---
00067-56-1: METHANOL	33000	1.32E-01	1.71E-01	1.21E+00	1.93E-01	4000	1.52E-04	2.53E-04	1.87E-03	2.81E-04
00067-63-0: ISOPROPYL ALCOHOL	98000	---	---	---	---	7000	---	---	---	---
00067-64-1: ACETONE	180000	---	---	---	---	30000	---	---	---	---
00071-55-6: METHYL CHLOROFORM	9000	---	---	---	---	5000	---	---	---	---
00074-90-8: HYDROGEN CYANIDE	340	1.01E+01	1.31E+01	9.26E+01	1.48E+01	0.8	3.41E-04	5.69E-04	4.20E-03	6.32E-04
00075-09-2: DICHLOROMETHANE	14000	---	---	---	---	46	---	---	---	---
00078-93-3: METHYL ETHYL KETONE	13000	---	---	---	---	5000	---	---	---	---
00079-01-6: TRICHLOROETHYLENE	20	**9.88E+01**	**1.28E+02**	**9.09E+02**	**1.45E+02**	0.2	**4.55E-01**	**7.58E-01**	**5.60E+00**	**8.43E-01**
00095-50-1: DICHLOROBENZINE, ortho	30000	---	---	---	---	200	---	---	---	---
00107-21-1: ETHYLENE GLYCOL	1000	---	---	---	---	400	---	---	---	---
00108-88-3: TOLUENE	37000	---	---	---	---	5000	---	---	---	---
00112-34-5: BUTYL CARBITOL	370	---	---	---	---	200	---	---	---	---
00120-82-1: TRICHCLORO BENZENE	3700	---	---	---	---	35	---	---	---	---
00123-86-4: BUTYL ACETATE	71300	---	---	---	---	565	---	---	---	---
00143-33-9: SODIUM CYANIDE	380	3.54E-01	4.61E-01	3.26E+00	5.20E-01	3.5	6.77E-04	1.13E-03	8.32E-03	1.25E-03
00151-50-8: POTASSIUM CYANIDE	380	---	---	---	---	3.5	---	---	---	---
01310-73-2: SODIUM HYDROXIDE	200	2.29E-01	2.98E-01	2.11E+00	3.36E-01	-----	---	---	---	---
07647-01-0: HYDROGEN CHLORIDE	2100	3.92E+01	5.09E+01	3.60E+02	5.74E+01	20	3.87E-02	6.44E-02	4.75E-01	7.16E-02
07664-39-3: HYDROGEN FLUORIDE	5.6	1.32E-01	1.71E-01	1.21E+00	1.93E-01	0.071	1.52E-04	2.53E-04	1.87E-03	2.81E-04
07664-41-7: AMMONIA	2400	8.54E+01	1.11E+02	7.86E+02	1.25E+02	500	5.05E-03	8.41E-03	6.21E-02	9.35E-03
07664-93-9: SULFURIC ACID	120	2.27E-01	2.95E-01	2.08E+00	3.32E-01	1	8.69E-04	1.45E-03	1.07E-02	1.61E-03
07697-37-2: NITRIC ACID	86	2.75E+00	3.58E+00	2.53E+01	4.03E+00	12.3	2.93E-02	4.88E-02	3.60E-01	5.43E-02
07782-50-5: CHLORINE	116	1.32E-01	1.71E-01	1.21E+00	1.93E-01	0.2	1.21E-04	2.02E-04	1.49E-03	2.25E-04
00078-83-1: ISOBUTYL ALCOHOL	-----	---	---	---	---	360	3.15E+00	5.24E+00	3.87E+01	5.83E+00
10102-43-9: NITROGEN OXIDE	-----	---	---	---	---	74	2.01E-02	3.35E-02	2.47E-01	3.72E-02
64742-65-0: DISTILLATE HEAVY PARAFINIC	-----	---	---	---	---	3200	2.43E-04	4.04E-04	2.98E-03	4.50E-04
01333-86-4: CARBON BLACK	-----	---	---	---	---	7	---	---	---	---
Musical instrument manufacturing (no pianos or organs)										
00630-08-0: CARBON MONOXIDE	40000	---	---	---	---	-----	---	---	---	---
NY075-00-0: PARTICULATES	150	1.78E+00	6.95E+00	2.47E+01	7.66E+00	-----	---	---	---	---
10102-44-0: NITROGEN DIOXIDE	188	---	---	---	---	100	---	---	---	---
07446-09-5: SULFUR DIOXIDE	196	---	---	---	---	80	---	---	---	---
00064-19-7: ACETIC ACID	3700	---	---	---	---	60	---	---	---	---
00067-56-1: METHANOL	33000	---	---	---	---	4000	---	---	---	---
00067-63-0: ISOPROPYL ALCOHOL	98000	1.35E+02	1.76E+02	1.24E+03	1.98E+02	7000	5.80E-01	9.66E-01	7.13E+00	1.07E+00
00067-64-1: ACETONE	180000	7.71E+01	1.00E+02	7.09E+02	1.13E+02	30000	1.33E-01	2.22E-01	1.64E+00	2.47E-01
00071-55-6: METHYL CHLOROFORM	9000	---	---	---	---	5000	---	---	---	---
00074-90-8: HYDROGEN CYANIDE	340	---	---	---	---	0.8	---	---	---	---
00075-09-2: DICHLOROMETHANE	14000	---	---	---	---	46	---	---	---	---
00078-93-3: METHYL ETHYL KETONE	13000	8.01E+01	1.04E+02	7.37E+02	1.17E+02	5000	7.49E-02	1.25E-01	9.21E-01	1.39E-01
00079-01-6: TRICHLOROETHYLENE	20	---	---	---	---	0.2	---	---	---	---
00095-50-1: DICHLOROBENZINE, ortho	30000	---	---	---	---	200	---	---	---	---
00107-21-1: ETHYLENE GLYCOL	1000	---	---	---	---	400	---	---	---	---
00108-88-3: TOLUENE	37000	2.29E+02	2.97E+02	2.10E+03	3.35E+02	5000	3.18E-01	5.29E-01	3.91E+00	5.89E-01
00112-34-5: BUTYL CARBITOL	370	---	---	---	---	200	---	---	---	---
00120-82-1: TRICHCLORO BENZENE	3700	---	---	---	---	35	---	---	---	---
00123-86-4: BUTYL ACETATE	71300	6.72E+01	8.74E+01	6.18E+02	9.85E+01	565	---	---	---	---
00143-33-9: SODIUM CYANIDE	380	---	---	---	---	3.5	---	---	---	---
00151-50-8: POTASSIUM CYANIDE	380	---	---	---	---	3.5	---	---	---	---
01310-73-2: SODIUM HYDROXIDE	200	---	---	---	---	-----	---	---	---	---
07647-01-0: HYDROGEN CHLORIDE	2100	---	---	---	---	20	---	---	---	---

	Project Industrial Source Analysis (1) (2) (3)									
	Short-Term Time Period					Annual Time Period				
	SGC (ug/m3)	Rooftop Vertical Exhaust Stack		Façade Horizontal Exhaust Stack	Rooftop Horizontal Exhaust Stack	AGC (ug/m3)	Rooftop Vertical Exhaust Stack		Façade Horizontal Exhaust Stack	Rooftop Horizontal Exhaust Stack
Use Groups & Pollutants		**Site 1E**	**Site 2B**	**Site 1E**	**Site 2B**		**Site 1E**	**Site 2B**	**Site 1E**	**Site 2B**
07664-39-3: HYDROGEN FLUORIDE	5.6	---	---	---	---	0.071	---	---	---	---
07664-41-7: AMMONIA	2400	---	---	---	---	500	---	---	---	---
07664-93-9: SULFURIC ACID	120	---	---	---	---	1	---	---	---	---
07697-37-2: NITRIC ACID	86	---	---	---	---	12.3	---	---	---	---
07782-50-5: CHLORINE	116	---	---	---	---	0.2	---	---	---	---
00078-83-1: ISOBUTYL ALCOHOL	-----	---	---	---	---	360	6.39E-01	1.06E+00	7.85E+00	1.18E+00
10102-43-9: NITROGEN OXIDE	-----	---	---	---	---	74	---	---	---	---
64742-65-0: DISTILLATE HEAVY PARAFINIC	-----	---	---	---	---	3200	---	---	---	---
01333-86-4: CARBON BLACK	-----	---	---	---	---	7	---	---	---	---
Custom printing (no limit in C6)										
00630-08-0: CARBON MONOXIDE	40000	4.05E+01	5.26E+01	3.72E+02	5.93E+01	-----	---	---	---	---
NY075-00-0: PARTICULATES	150	2.12E+00	8.28E+00	2.94E+01	9.12E+00	-----	9.64E-03	1.60E-02	1.18E-01	1.78E-02
10102-44-0: NITROGEN DIOXIDE	188	5.27E-01	6.85E-01	4.85E+00	7.73E-01	100	1.85E-03	3.08E-03	2.28E-02	3.43E-03
07446-09-5: SULFUR DIOXIDE	196	3.32E+00	4.32E+00	3.05E+01	4.87E+00	80	1.72E-02	2.86E-02	2.11E-01	3.18E-02
00064-19-7: ACETIC ACID	3700	4.07E+00	5.29E+00	3.74E+01	5.97E+00	60	3.94E-02	6.56E-02	4.84E-01	7.29E-02
00067-56-1: METHANOL	33000	4.72E+01	6.13E+01	4.34E+02	6.92E+01	4000	4.27E-01	7.10E-01	5.24E+00	7.90E-01
00067-63-0: ISOPROPYL ALCOHOL	98000	6.00E+02	7.80E+02	5.52E+03	8.80E+02	7000	3.72E+00	6.20E+00	4.57E+01	6.89E+00
00067-64-1: ACETONE	180000	1.26E+02	1.64E+02	1.16E+03	1.85E+02	30000	1.49E-01	2.48E-01	1.83E+00	2.76E-01
00071-55-6: METHYL CHLOROFORM	9000	3.29E+01	4.28E+01	3.03E+02	4.83E+01	5000	1.73E-01	2.88E-01	2.12E+00	3.20E-01
00074-90-8: HYDROGEN CYANIDE	340	---	---	---	---	0.8	---	---	---	---
00075-09-2: DICHLOROMETHANE	14000	1.57E+02	2.05E+02	1.45E+03	2.31E+02	46	3.46E-01	5.75E-01	4.25E+00	6.40E-01
00078-93-3: METHYL ETHYL KETONE	13000	2.27E-01	2.95E-01	2.08E+00	3.32E-01	5000	1.04E-03	1.74E-03	1.28E-02	1.93E-03
00079-01-6: TRICHLOROETHYLENE	20	---	---	---	---	0.2	---	---	---	---
00095-50-1: DICHLOROBENZINE, ortho	30000	---	---	---	---	200	---	---	---	---
00107-21-1: ETHYLENE GLYCOL	1000	1.19E+01	1.55E+01	1.10E+02	1.75E+01	400	6.04E-02	1.01E-01	7.42E-01	1.12E-01
00108-88-3: TOLUENE	37000	4.06E+01	5.28E+01	3.73E+02	5.95E+01	5000	6.13E-02	1.02E-01	7.54E-01	1.14E-01
00112-34-5: BUTYL CARBITOL	370	2.06E+01	2.68E+01	1.90E+02	3.02E+01	200	1.02E-01	1.70E-01	1.26E+00	1.90E-01
00120-82-1: TRICHCLORO BENZENE	3700	---	---	---	---	35	---	---	---	---
00123-86-4: BUTYL ACETATE	71300	1.60E+01	2.08E+01	1.47E+02	2.34E+01	565	---	---	---	---
00143-33-9: SODIUM CYANIDE	380	---	---	---	---	3.5	---	---	---	---
00151-50-8: POTASSIUM CYANIDE	380	---	---	---	---	3.5	---	---	---	---
01310-73-2: SODIUM HYDROXIDE	200	1.32E-01	1.71E-01	1.21E+00	1.93E-01	-----	---	---	---	---
07647-01-0: HYDROGEN CHLORIDE	2100	---	---	---	---	20	---	---	---	---
07664-39-3: HYDROGEN FLUORIDE	5.6	---	---	---	---	0.071	3.04E-06	5.05E-06	3.73E-05	5.62E-06
07664-41-7: AMMONIA	2400	1.22E+02	1.59E+02	1.13E+03	1.79E+02	500	5.44E-01	9.06E-01	6.69E+00	1.01E+00
07664-93-9: SULFURIC ACID	120	5.27E-01	6.85E-01	4.85E+00	7.73E-01	1	1.03E-02	1.71E-02	1.26E-01	1.90E-02
07697-37-2: NITRIC ACID	86	2.50E+00	3.26E+00	2.30E+01	3.67E+00	12.3	2.54E-03	4.22E-03	3.12E-02	4.70E-03
07782-50-5: CHLORINE	116	---	---	---	---	0.2	---	---	---	---
00078-83-1: ISOBUTYL ALCOHOL	-----	---	---	---	---	360	---	---	---	---
10102-43-9: NITROGEN OXIDE	-----	---	---	---	---	74	1.60E-01	2.67E-01	1.97E+00	2.96E-01
64742-65-0: DISTILLATE HEAVY PARAFINIC	-----	---	---	---	---	3200	---	---	---	---
01333-86-4: CARBON BLACK	-----	---	---	---	---	7	9.64E-03	1.60E-02	1.18E-01	1.78E-02
Household/office equipment or machinery repair shops										
00630-08-0: CARBON MONOXIDE	40000	3.95E+00		3.64E+01		-----	---		---	
NY075-00-0: PARTICULATES	150	7.93E-01		1.10E+01		-----	---		---	
10102-44-0: NITROGEN DIOXIDE	188	---		---		100	---		---	
07446-09-5: SULFUR DIOXIDE	196	1.32E-01		1.21E+00		80	9.71E-04		1.19E-02	
00064-19-7: ACETIC ACID	3700	---		---		60	---		---	
00067-56-1: METHANOL	33000	---		---		4000	---		---	
00067-63-0: ISOPROPYL ALCOHOL	98000	---		---		7000	---		---	
00067-64-1: ACETONE	180000	7.91E+01		7.27E+02		30000	2.91E-01		3.58E+00	
00071-55-6: METHYL CHLOROFORM	9000	---		---		5000	---		---	
00074-90-8: HYDROGEN CYANIDE	340	---		---		0.8	---		---	
00075-09-2: DICHLOROMETHANE	14000	---		---		46	---		---	
00078-93-3: METHYL ETHYL KETONE	13000	---		---		5000	---		---	
00079-01-6: TRICHLOROETHYLENE	20	---		---		0.2	---		---	
00095-50-1: DICHLOROBENZINE, ortho	30000	---		---		200	---		---	
00107-21-1: ETHYLENE GLYCOL	1000	---		---		400	---		---	
00108-88-3: TOLUENE	37000	---		---		5000	---		---	
00112-34-5: BUTYL CARBITOL	370	---		---		200	---		---	
00120-82-1: TRICHCLORO BENZENE	3700	---		---		35	---		---	
00123-86-4: BUTYL ACETATE	71300	1.32E-01		1.21E+00		565	---		---	
00143-33-9: SODIUM CYANIDE	380	---		---		3.5	---		---	
00151-50-8: POTASSIUM CYANIDE	380	---		---		3.5	---		---	
01310-73-2: SODIUM HYDROXIDE	200	---		---		-----	---		---	
07647-01-0: HYDROGEN CHLORIDE	2100	---		---		20	---		---	
07664-39-3: HYDROGEN FLUORIDE	5.6	---		---		0.071	---		---	

	Project Industrial Source Analysis [1] [2] [3]									
	Short-Term Time Period					Annual Time Period				
	SGC (ug/m3)	Rooftop Vertical Exhaust Stack		Façade Horizontal Exhaust Stack	Rooftop Horizontal Exhaust Stack	AGC (ug/m3)	Rooftop Vertical Exhaust Stack		Façade Horizontal Exhaust Stack	Rooftop Horizontal Exhaust Stack
Use Groups & Pollutants		Site 1E	Site 2B	Site 1E	Site 2B		Site 1E	Site 2B	Site 1E	Site 2B
07664-41-7: AMMONIA	2400	---		---		500	---		---	
07664-93-9: SULFURIC ACID	120	---		---		1	---		---	
07697-37-2: NITRIC ACID	86	---		---		12.3	---		---	
07782-50-5: CHLORINE	116	---		---		0.2	---		---	
00078-83-1: ISOBUTYL ALCOHOL	-----	---		---		360	8.74E-02		1.07E+00	
10102-43-9: NITROGEN OXIDE	-----	---		---		74	---		---	
64742-65-0: DISTILLATE HEAVY PARAFINIC	-----	---		---		3200	---		---	
01333-86-4: CARBON BLACK	-----	---		---		7	---		---	
Apparel or other textile product manufacturing										
00630-08-0: CARBON MONOXIDE	40000	9.25E+00		8.51E+01		-----	---		---	
NY075-00-0: PARTICULATES	150	1.07E+00		1.48E+01		-----	---		---	
10102-44-0: NITROGEN DIOXIDE	188	7.91E-01		7.27E+00		100	2.79E-02		3.43E-01	
07446-09-5: SULFUR DIOXIDE	196	2.82E+00		2.59E+01		80	6.93E-03		8.52E-02	
00064-19-7: ACETIC ACID	3700	2.21E+01		2.04E+02		60	1.02E-01		1.25E+00	
00067-56-1: METHANOL	33000	---		---		4000	---		---	
00067-63-0: ISOPROPYL ALCOHOL	98000	---		---		7000	---		---	
00067-64-1: ACETONE	180000	---		---		30000	---		---	
00071-55-6: METHYL CHLOROFORM	9000	---		---		5000	---		---	
00074-90-8: HYDROGEN CYANIDE	340	---		---		0.8	---		---	
00075-09-2: DICHLOROMETHANE	14000	---		---		46	---		---	
00078-93-3: METHYL ETHYL KETONE	13000	---		---		5000	---		---	
00079-01-6: TRICHLOROETHYLENE	20	---		---		0.2	---		---	
00095-50-1: DICHLOROBENZINE, ortho	30000	3.95E+00		3.64E+01		200	1.84E-02		2.26E-01	
00107-21-1: ETHYLENE GLYCOL	1000	---		---		400	---		---	
00108-88-3: TOLUENE	37000	4.22E+01		3.88E+02		5000	1.14E-01		1.40E+00	
00112-34-5: BUTYL CARBITOL	370	---		---		200	---		---	
00120-82-1: TRICHCLORO BENZENE	3700	2.17E+01		2.00E+02		35	---		---	
00123-86-4: BUTYL ACETATE	71300	---		---		565	---		---	
00143-33-9: SODIUM CYANIDE	380	---		---		3.5	---		---	
00151-50-8: POTASSIUM CYANIDE	380	---		---		3.5	---		---	
01310-73-2: SODIUM HYDROXIDE	200	---		---		-----	---		---	
07647-01-0: HYDROGEN CHLORIDE	2100	---		---		20	---		---	
07664-39-3: HYDROGEN FLUORIDE	5.6	---		---		0.071	---		---	
07664-41-7: AMMONIA	2400	6.44E+00		5.92E+01		500	2.97E-02		3.65E-01	
07664-93-9: SULFURIC ACID	120	---		---		1	---		---	
07697-37-2: NITRIC ACID	86	---		---		12.3	---		---	
07782-50-5: CHLORINE	116	---		---		0.2	---		---	
00078-83-1: ISOBUTYL ALCOHOL	-----	---		---		360	---		---	
10102-43-9: NITROGEN OXIDE	-----	---		---		74	3.03E-01		3.72E+00	
64742-65-0: DISTILLATE HEAVY PARAFINIC	-----	---		---		3200	---		---	
01333-86-4: CARBON BLACK	-----	---		---		7	---		---	
Fur good manufacturing (excl. tanning/dyeing)										
00630-08-0: CARBON MONOXIDE	40000	1.66E+01		1.53E+02		-----	---		---	
NY075-00-0: PARTICULATES	150	9.99E-01		1.39E+01		-----	---		---	
10102-44-0: NITROGEN DIOXIDE	188	---		---		100	---		---	
07446-09-5: SULFUR DIOXIDE	196	6.03E-01		5.55E+00		80	2.78E-03		3.42E-02	
00064-19-7: ACETIC ACID	3700	---		---		60	---		---	
00067-56-1: METHANOL	33000	---		---		4000	---		---	
00067-63-0: ISOPROPYL ALCOHOL	98000	---		---		7000	---		---	
00067-64-1: ACETONE	180000	---		---		30000	---		---	
00071-55-6: METHYL CHLOROFORM	9000	---		---		5000	---		---	
00074-90-8: HYDROGEN CYANIDE	340	---		---		0.8	---		---	
00075-09-2: DICHLOROMETHANE	14000	---		---		46	---		---	
00078-93-3: METHYL ETHYL KETONE	13000	---		---		5000	---		---	
00079-01-6: TRICHLOROETHYLENE	20	---		---		0.2	---		---	
00095-50-1: DICHLOROBENZINE, ortho	30000	---		---		200	---		---	
00107-21-1: ETHYLENE GLYCOL	1000	---		---		400	---		---	
00108-88-3: TOLUENE	37000	---		---		5000	---		---	
00112-34-5: BUTYL CARBITOL	370	---		---		200	---		---	
00120-82-1: TRICHCLORO BENZENE	3700	---		---		35	---		---	
00123-86-4: BUTYL ACETATE	71300	---		---		565	---		---	
00143-33-9: SODIUM CYANIDE	380	---		---		3.5	---		---	
00151-50-8: POTASSIUM CYANIDE	380	---		---		3.5	---		---	
01310-73-2: SODIUM HYDROXIDE	200	---		---		-----	---		---	
07647-01-0: HYDROGEN CHLORIDE	2100	---		---		20	---		---	
07664-39-3: HYDROGEN FLUORIDE	5.6	---		---		0.071	---		---	
07664-41-7: AMMONIA	2400	---		---		500	---		---	

	Project Industrial Source Analysis [1] [2] [3]									
	Short-Term Time Period					Annual Time Period				
	SGC (ug/m3)	Rooftop Vertical Exhaust Stack		Façade Horizontal Exhaust Stack	Rooftop Horizontal Exhaust Stack	AGC (ug/m3)	Rooftop Vertical Exhaust Stack		Façade Horizontal Exhaust Stack	Rooftop Horizontal Exhaust Stack
Use Groups & Pollutants		**Site 1E**	**Site 2B**	**Site 1E**	**Site 2B**		**Site 1E**	**Site 2B**	**Site 1E**	**Site 2B**
07664-93-9: SULFURIC ACID	120	---		---		1	---		---	
07697-37-2: NITRIC ACID	86	---		---		12.3	---		---	
07782-50-5: CHLORINE	116	---		---		0.2	---		---	
00078-83-1: ISOBUTYL ALCOHOL	-----	---		---		360	---		---	
10102-43-9: NITROGEN OXIDE	-----	---		---		74	---		---	
64742-65-0: DISTILLATE HEAVY PARAFINIC	-----	---		---		3200	---		---	
01333-86-4: CARBON BLACK	-----	---		---		7	---		---	
Soap or detergent packaging										
00630-08-0: CARBON MONOXIDE	40000	2.64E-01		2.42E+00		-----	---		---	
NY075-00-0: PARTICULATES	150	9.68E-01		1.34E+01		-----	---		---	
10102-44-0: NITROGEN DIOXIDE	188	---		---		100	---		---	
07446-09-5: SULFUR DIOXIDE	196	6.22E-01		5.72E+00		80	2.86E-03		3.51E-02	
00064-19-7: ACETIC ACID	3700	---		---		60	---		---	
00067-56-1: METHANOL	33000	---		---		4000	---		---	
00067-63-0: ISOPROPYL ALCOHOL	98000	---		---		7000	---		---	
00067-64-1: ACETONE	180000	---		---		30000	---		---	
00071-55-6: METHYL CHLOROFORM	9000	---		---		5000	---		---	
00074-90-8: HYDROGEN CYANIDE	340	---		---		0.8	---		---	
00075-09-2: DICHLOROMETHANE	14000	---		---		46	---		---	
00078-93-3: METHYL ETHYL KETONE	13000	---		---		5000	---		---	
00079-01-6: TRICHLOROETHYLENE	20	---		---		0.2	---		---	
00095-50-1: DICHLOROBENZINE, ortho	30000	---		---		200	---		---	
00107-21-1: ETHYLENE GLYCOL	1000	---		---		400	---		---	
00108-88-3: TOLUENE	37000	---		---		5000	---		---	
00112-34-5: BUTYL CARBITOL	370	---		---		200	---		---	
00120-82-1: TRICHCLORO BENZENE	3700	---		---		35	---		---	
00123-86-4: BUTYL ACETATE	71300	---		---		565	---		---	
00143-33-9: SODIUM CYANIDE	380	---		---		3.5	---		---	
00151-50-8: POTASSIUM CYANIDE	380	1.32E-01		1.21E+00		3.5	4.86E-04		5.97E-03	
01310-73-2: SODIUM HYDROXIDE	200	1.32E-01		1.21E+00		-----	---		---	
07647-01-0: HYDROGEN CHLORIDE	2100	1.32E+00		1.21E+01		20	1.94E-04		2.39E-03	
07664-39-3: HYDROGEN FLUORIDE	5.6	---		---		0.071	---		---	
07664-41-7: AMMONIA	2400	1.32E-01		1.21E+00		500	4.86E-04		5.97E-03	
07664-93-9: SULFURIC ACID	120	3.95E-01		3.64E+00		1	9.11E-07		1.12E-05	
07697-37-2: NITRIC ACID	86	1.32E-01		1.21E+00		12.3	6.07E-04		7.46E-03	
07782-50-5: CHLORINE	116	---		---		0.2	---		---	
00078-83-1: ISOBUTYL ALCOHOL	-----	---		---		360	---		---	
10102-43-9: NITROGEN OXIDE	-----	---		---		74	---		---	
64742-65-0: DISTILLATE HEAVY PARAFINIC	-----	---		---		3200	---		---	
01333-86-4: CARBON BLACK	-----	---		---		7	---		---	
Textile spinning, weaving, manufacturing, dyeing, printing										
00630-08-0: CARBON MONOXIDE	40000	1.66E+01		1.53E+02		-----	---		---	
NY075-00-0: PARTICULATES	150	9.99E-01		1.39E+01		-----	---		---	
10102-44-0: NITROGEN DIOXIDE	188	---		---		100	---		---	
07446-09-5: SULFUR DIOXIDE	196	6.03E-01		5.55E+00		80	2.78E-03		3.42E-02	
00064-19-7: ACETIC ACID	3700	---		---		60	---		---	
00067-56-1: METHANOL	33000	---		---		4000	---		---	
00067-63-0: ISOPROPYL ALCOHOL	98000	---		---		7000	---		---	
00067-64-1: ACETONE	180000	---		---		30000	---		---	
00071-55-6: METHYL CHLOROFORM	9000	---		---		5000	---		---	
00074-90-8: HYDROGEN CYANIDE	340	---		---		0.8	---		---	
00075-09-2: DICHLOROMETHANE	14000	---		---		46	---		---	
00078-93-3: METHYL ETHYL KETONE	13000	---		---		5000	---		---	
00079-01-6: TRICHLOROETHYLENE	20	---		---		0.2	---		---	
00095-50-1: DICHLOROBENZINE, ortho	30000	---		---		200	---		---	
00107-21-1: ETHYLENE GLYCOL	1000	---		---		400	---		---	
00108-88-3: TOLUENE	37000	---		---		5000	---		---	
00112-34-5: BUTYL CARBITOL	370	---		---		200	---		---	
00120-82-1: TRICHCLORO BENZENE	3700	---		---		35	---		---	
00123-86-4: BUTYL ACETATE	71300	---		---		565	---		---	
00143-33-9: SODIUM CYANIDE	380	---		---		3.5	---		---	
00151-50-8: POTASSIUM CYANIDE	380	---		---		3.5	---		---	
01310-73-2: SODIUM HYDROXIDE	200	---		---		-----	---		---	
07647-01-0: HYDROGEN CHLORIDE	2100	---		---		20	---		---	
07664-39-3: HYDROGEN FLUORIDE	5.6	---		---		0.071	---		---	
07664-41-7: AMMONIA	2400	---		---		500	---		---	
07664-93-9: SULFURIC ACID	120	---		---		1	---		---	

	Project Industrial Source Analysis [1] [2] [3]								
	Short-Term Time Period					Annual Time Period			
	SGC (ug/m3)	Rooftop Vertical Exhaust Stack		Façade Horizontal Exhaust Stack	Rooftop Horizontal Exhaust Stack	AGC (ug/m3)	Rooftop Vertical Exhaust Stack		Façade Horizontal Exhaust Stack	Rooftop Horizontal Exhaust Stack
Use Groups & Pollutants		**Site 1E**	**Site 2B**	**Site 1E**	**Site 2B**		**Site 1E**	**Site 2B**	**Site 1E**	**Site 2B**
07697-37-2: NITRIC ACID	86	---		---		12.3	---		---	
07782-50-5: CHLORINE	116	---		---		0.2	---		---	
00078-83-1: ISOBUTYL ALCOHOL	-----	---		---		360	---		---	
10102-43-9: NITROGEN OXIDE	-----	---		---		74	---		---	
64742-65-0: DISTILLATE HEAVY PARAFINIC	-----	---		---		3200	---		---	
01333-86-4: CARBON BLACK	-----	---		---		7	---		---	

Exceedances of SGC/AGC threshold in bold.

Notes:
(1) Modeling analysis for Building 1E included vertical exhaust stacks placed on the rooftop on all four facades and horizontal exhaust stacks placed on cellar, floor 3 and floor 4 on all 4 facades.
(2) Moddling analsis for Building 1B includes vertical exhaust stacks on rooftop facing three facades (north, south and west) and horizontal exhaust stack on the rooftop facing east facade.

Appendix F-2-2
Herkimer-Williams
Project Industrial Sources Results

	Project Industrial Source Analysis [1] [2] [3]							
	Short-Term Time Period				Annual Time Period			
	Rooftop Vertical Exhaust Stack		Façade Horizontal Exhaust Stack	Rooftop Horizontal Exhaust Stack	Rooftop Vertical Exhaust Stack		Façade Horizontal Exhaust Stack	Rooftop Horizontal Exhaust Stack
Use Groups & Pollutants	**Site 1E**	**Site 2B**	**Site 1E**	**Site 2B**	**Site 1E**	**Site 2B**	**Site 1E**	**Site 2B**
Book binding/tooling (by hand)								
00630-08-0: CARBON MONOXIDE	---	---	---	---	---	---	---	---
NY075-00-0: PARTICULATES	PASS	PASS	PASS	PASS	---	---	---	---
10102-44-0: NITROGEN DIOXIDE	---	---	---	---	---	---	---	---
07446-09-5: SULFUR DIOXIDE	---	---	---	---	---	---	---	---
00064-19-7: ACETIC ACID	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00067-56-1: METHANOL	---	---	---	---	---	---	---	---
00067-63-0: ISOPROPYL ALCOHOL	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00067-64-1: ACETONE	---	---	---	---	---	---	---	---
00071-55-6: METHYL CHLOROFORM	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00074-90-8: HYDROGEN CYANIDE	---	---	---	---	---	---	---	---
00075-09-2: DICHLOROMETHANE	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00078-93-3: METHYL ETHYL KETONE	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00079-01-6: TRICHLOROETHYLENE	---	---	---	---	---	---	---	---
00095-50-1: DICHLOROBENZINE, ortho	---	---	---	---	---	---	---	---
00107-21-1: ETHYLENE GLYCOL	---	---	---	---	---	---	---	---
00108-88-3: TOLUENE	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00112-34-5: BUTYL CARBITOL	---	---	---	---	---	---	---	---
00120-82-1: TRICHCLORO BENZENE	---	---	---	---	---	---	---	---
00123-86-4: BUTYL ACETATE	PASS	PASS	PASS	PASS	---	---	---	---
00143-33-9: SODIUM CYANIDE	---	---	---	---	---	---	---	---
00151-50-8: POTASSIUM CYANIDE	---	---	---	---	---	---	---	---
01310-73-2: SODIUM HYDROXIDE	---	---	---	---	---	---	---	---
07647-01-0: HYDROGEN CHLORIDE	---	---	---	---	---	---	---	---
07664-39-3: HYDROGEN FLUORIDE	---	---	---	---	---	---	---	---
07664-41-7: AMMONIA	---	---	---	---	---	---	---	---
07664-93-9: SULFURIC ACID	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
07697-37-2: NITRIC ACID	---	---	---	---	---	---	---	---
07782-50-5: CHLORINE	---	---	---	---	---	---	---	---
00078-83-1: ISOBUTYL ALCOHOL	---	---	---	---	---	---	---	---
10102-43-9: NITROGEN OXIDE	---	---	---	---	---	---	---	---
64742-65-0: DISTILLATE HEAVY PARAFINIC	---	---	---	---	---	---	---	---
01333-86-4: CARBON BLACK	---	---	---	---	---	---	---	---
Custom manufacturing/altering for retail								
00630-08-0: CARBON MONOXIDE	PASS	PASS	PASS	PASS	---	---	---	---
NY075-00-0: PARTICULATES	PASS	PASS	PASS	PASS	---	---	---	---
10102-44-0: NITROGEN DIOXIDE	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
07446-09-5: SULFUR DIOXIDE	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00064-19-7: ACETIC ACID	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00067-56-1: METHANOL	---	---	---	---	---	---	---	---
00067-63-0: ISOPROPYL ALCOHOL	---	---	---	---	---	---	---	---
00067-64-1: ACETONE	---	---	---	---	---	---	---	---
00071-55-6: METHYL CHLOROFORM	---	---	---	---	---	---	---	---
00074-90-8: HYDROGEN CYANIDE	---	---	---	---	---	---	---	---
00075-09-2: DICHLOROMETHANE	---	---	---	---	---	---	---	---
00078-93-3: METHYL ETHYL KETONE	---	---	---	---	---	---	---	---
00079-01-6: TRICHLOROETHYLENE	---	---	---	---	---	---	---	---
00095-50-1: DICHLOROBENZINE, ortho	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00107-21-1: ETHYLENE GLYCOL	---	---	---	---	---	---	---	---
00108-88-3: TOLUENE	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00112-34-5: BUTYL CARBITOL	---	---	---	---	---	---	---	---
00120-82-1: TRICHCLORO BENZENE	PASS	PASS	PASS	PASS	---	---	---	---

	Project Industrial Source Analysis [1] [2] [3]							
	Short-Term Time Period				Annual Time Period			
	Rooftop Vertical Exhaust Stack		Façade Horizontal Exhaust Stack	Rooftop Horizontal Exhaust Stack	Rooftop Vertical Exhaust Stack		Façade Horizontal Exhaust Stack	Rooftop Horizontal Exhaust Stack
Use Groups & Pollutants	**Site 1E**	**Site 2B**	**Site 1E**	**Site 2B**	**Site 1E**	**Site 2B**	**Site 1E**	**Site 2B**
00123-86-4: BUTYL ACETATE	---	---	---	---	---	---	---	---
00143-33-9: SODIUM CYANIDE	---	---	---	---	---	---	---	---
00151-50-8: POTASSIUM CYANIDE	---	---	---	---	---	---	---	---
01310-73-2: SODIUM HYDROXIDE	---	---	---	---	---	---	---	---
07647-01-0: HYDROGEN CHLORIDE	---	---	---	---	---	---	---	---
07664-39-3: HYDROGEN FLUORIDE	---	---	---	---	---	---	---	---
07664-41-7: AMMONIA	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
07664-93-9: SULFURIC ACID	---	---	---	---	---	---	---	---
07697-37-2: NITRIC ACID	---	---	---	---	---	---	---	---
07782-50-5: CHLORINE	---	---	---	---	---	---	---	---
00078-83-1: ISOBUTYL ALCOHOL	---	---	---	---	---	---	---	---
10102-43-9: NITROGEN OXIDE	---	---	---	---	PASS	PASS	PASS	PASS
64742-65-0: DISTILLATE HEAVY PARAFINIC	---	---	---	---	---	---	---	---
01333-86-4: CARBON BLACK	---	---	---	---	---	---	---	---
Precision instrument/jewelry manufacturing								
00630-08-0: CARBON MONOXIDE	PASS	PASS	PASS	PASS	---	---	---	---
NY075-00-0: PARTICULATES	PASS	PASS	PASS	PASS	---	---	---	---
10102-44-0: NITROGEN DIOXIDE	---	---	---	---	---	---	---	---
07446-09-5: SULFUR DIOXIDE	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00064-19-7: ACETIC ACID	---	---	---	---	---	---	---	---
00067-56-1: METHANOL	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00067-63-0: ISOPROPYL ALCOHOL	---	---	---	---	---	---	---	---
00067-64-1: ACETONE	---	---	---	---	---	---	---	---
00071-55-6: METHYL CHLOROFORM	---	---	---	---	---	---	---	---
00074-90-8: HYDROGEN CYANIDE	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00075-09-2: DICHLOROMETHANE	---	---	---	---	---	---	---	---
00078-93-3: METHYL ETHYL KETONE	---	---	---	---	---	---	---	---
00079-01-6: TRICHLOROETHYLENE	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL	FAIL
00095-50-1: DICHLOROBENZINE, ortho	---	---	---	---	---	---	---	---
00107-21-1: ETHYLENE GLYCOL	---	---	---	---	---	---	---	---
00108-88-3: TOLUENE	---	---	---	---	---	---	---	---
00112-34-5: BUTYL CARBITOL	---	---	---	---	---	---	---	---
00120-82-1: TRICHCLORO BENZENE	---	---	---	---	---	---	---	---
00123-86-4: BUTYL ACETATE	---	---	---	---	---	---	---	---
00143-33-9: SODIUM CYANIDE	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00151-50-8: POTASSIUM CYANIDE	---	---	---	---	---	---	---	---
01310-73-2: SODIUM HYDROXIDE	PASS	PASS	PASS	PASS	---	---	---	---
07647-01-0: HYDROGEN CHLORIDE	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
07664-39-3: HYDROGEN FLUORIDE	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
07664-41-7: AMMONIA	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
07664-93-9: SULFURIC ACID	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
07697-37-2: NITRIC ACID	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
07782-50-5: CHLORINE	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00078-83-1: ISOBUTYL ALCOHOL	---	---	---	---	PASS	PASS	PASS	PASS
10102-43-9: NITROGEN OXIDE	---	---	---	---	PASS	PASS	PASS	PASS
64742-65-0: DISTILLATE HEAVY PARAFINIC	---	---	---	---	PASS	PASS	PASS	PASS
01333-86-4: CARBON BLACK	---	---	---	---	---	---	---	---
Musical instrument manufacturing (no pianos or organs)								
00630-08-0: CARBON MONOXIDE	---	---	---	---	---	---	---	---
NY075-00-0: PARTICULATES	PASS	PASS	PASS	PASS	---	---	---	---
10102-44-0: NITROGEN DIOXIDE	---	---	---	---	---	---	---	---
07446-09-5: SULFUR DIOXIDE	---	---	---	---	---	---	---	---
00064-19-7: ACETIC ACID	---	---	---	---	---	---	---	---
00067-56-1: METHANOL	---	---	---	---	---	---	---	---
00067-63-0: ISOPROPYL ALCOHOL	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00067-64-1: ACETONE	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00071-55-6: METHYL CHLOROFORM	---	---	---	---	---	---	---	---
00074-90-8: HYDROGEN CYANIDE	---	---	---	---	---	---	---	---

	Project Industrial Source Analysis [1] [2] [3]							
	Short-Term Time Period				Annual Time Period			
	Rooftop Vertical Exhaust Stack		Façade Horizontal Exhaust Stack	Rooftop Horizontal Exhaust Stack	Rooftop Vertical Exhaust Stack		Façade Horizontal Exhaust Stack	Rooftop Horizontal Exhaust Stack
Use Groups & Pollutants	**Site 1E**	**Site 2B**	**Site 1E**	**Site 2B**	**Site 1E**	**Site 2B**	**Site 1E**	**Site 2B**
00075-09-2: DICHLOROMETHANE	---	---	---	---	---	---	---	---
00078-93-3: METHYL ETHYL KETONE	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00079-01-6: TRICHLOROETHYLENE	---	---	---	---	---	---	---	---
00095-50-1: DICHLOROBENZINE, ortho	---	---	---	---	---	---	---	---
00107-21-1: ETHYLENE GLYCOL	---	---	---	---	---	---	---	---
00108-88-3: TOLUENE	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00112-34-5: BUTYL CARBITOL	---	---	---	---	---	---	---	---
00120-82-1: TRICHCLORO BENZENE	---	---	---	---	---	---	---	---
00123-86-4: BUTYL ACETATE	PASS	PASS	PASS	PASS	---	---	---	---
00143-33-9: SODIUM CYANIDE	---	---	---	---	---	---	---	---
00151-50-8: POTASSIUM CYANIDE	---	---	---	---	---	---	---	---
01310-73-2: SODIUM HYDROXIDE	---	---	---	---	---	---	---	---
07647-01-0: HYDROGEN CHLORIDE	---	---	---	---	---	---	---	---
07664-39-3: HYDROGEN FLUORIDE	---	---	---	---	---	---	---	---
07664-41-7: AMMONIA	---	---	---	---	---	---	---	---
07664-93-9: SULFURIC ACID	---	---	---	---	---	---	---	---
07697-37-2: NITRIC ACID	---	---	---	---	---	---	---	---
07782-50-5: CHLORINE	---	---	---	---	---	---	---	---
00078-83-1: ISOBUTYL ALCOHOL	---	---	---	---	PASS	PASS	PASS	PASS
10102-43-9: NITROGEN OXIDE	---	---	---	---	---	---	---	---
64742-65-0: DISTILLATE HEAVY PARAFINIC	---	---	---	---	---	---	---	---
01333-86-4: CARBON BLACK	---	---	---	---	---	---	---	---
Custom printing (no limit in C6)								
00630-08-0: CARBON MONOXIDE	PASS	PASS	PASS	PASS	---	---	---	---
NY075-00-0: PARTICULATES	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
10102-44-0: NITROGEN DIOXIDE	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
07446-09-5: SULFUR DIOXIDE	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00064-19-7: ACETIC ACID	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00067-56-1: METHANOL	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00067-63-0: ISOPROPYL ALCOHOL	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00067-64-1: ACETONE	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00071-55-6: METHYL CHLOROFORM	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00074-90-8: HYDROGEN CYANIDE	---	---	---	---	---	---	---	---
00075-09-2: DICHLOROMETHANE	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00078-93-3: METHYL ETHYL KETONE	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00079-01-6: TRICHLOROETHYLENE	---	---	---	---	---	---	---	---
00095-50-1: DICHLOROBENZINE, ortho	---	---	---	---	---	---	---	---
00107-21-1: ETHYLENE GLYCOL	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00108-88-3: TOLUENE	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00112-34-5: BUTYL CARBITOL	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
00120-82-1: TRICHCLORO BENZENE	---	---	---	---	---	---	---	---
00123-86-4: BUTYL ACETATE	PASS	PASS	PASS	PASS	---	---	---	---
00143-33-9: SODIUM CYANIDE	---	---	---	---	---	---	---	---
00151-50-8: POTASSIUM CYANIDE	---	---	---	---	---	---	---	---
01310-73-2: SODIUM HYDROXIDE	PASS	PASS	PASS	PASS	---	---	---	---
07647-01-0: HYDROGEN CHLORIDE	---	---	---	---	---	---	---	---
07664-39-3: HYDROGEN FLUORIDE	---	---	---	---	PASS	PASS	PASS	PASS
07664-41-7: AMMONIA	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
07664-93-9: SULFURIC ACID	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
07697-37-2: NITRIC ACID	PASS	PASS	PASS	PASS	PASS	PASS	PASS	PASS
07782-50-5: CHLORINE	---	---	---	---	---	---	---	---
00078-83-1: ISOBUTYL ALCOHOL	---	---	---	---	---	---	---	---
10102-43-9: NITROGEN OXIDE	---	---	---	---	PASS	PASS	PASS	PASS
64742-65-0: DISTILLATE HEAVY PARAFINIC	---	---	---	---	---	---	---	---
01333-86-4: CARBON BLACK	---	---	---	---	PASS	PASS	PASS	PASS
Household/office equipment or machinery repair shops								
00630-08-0: CARBON MONOXIDE	PASS		PASS		---		---	
NY075-00-0: PARTICULATES	PASS		PASS		---		---	

	Project Industrial Source Analysis [1] [2] [3]							
	Short-Term Time Period				Annual Time Period			
	Rooftop Vertical Exhaust Stack		Façade Horizontal Exhaust Stack	Rooftop Horizontal Exhaust Stack	Rooftop Vertical Exhaust Stack		Façade Horizontal Exhaust Stack	Rooftop Horizontal Exhaust Stack
Use Groups & Pollutants	**Site 1E**	**Site 2B**	**Site 1E**	**Site 2B**	**Site 1E**	**Site 2B**	**Site 1E**	**Site 2B**
10102-44-0: NITROGEN DIOXIDE	---		---		---		---	
07446-09-5: SULFUR DIOXIDE	PASS		PASS		PASS		PASS	
00064-19-7: ACETIC ACID	---		---		---		---	
00067-56-1: METHANOL	---		---		---		---	
00067-63-0: ISOPROPYL ALCOHOL	---		---		---		---	
00067-64-1: ACETONE	PASS		PASS		PASS		PASS	
00071-55-6: METHYL CHLOROFORM	---		---		---		---	
00074-90-8: HYDROGEN CYANIDE	---		---		---		---	
00075-09-2: DICHLOROMETHANE	---		---		---		---	
00078-93-3: METHYL ETHYL KETONE	---		---		---		---	
00079-01-6: TRICHLOROETHYLENE	---		---		---		---	
00095-50-1: DICHLOROBENZINE, ortho	---		---		---		---	
00107-21-1: ETHYLENE GLYCOL	---		---		---		---	
00108-88-3: TOLUENE	---		---		---		---	
00112-34-5: BUTYL CARBITOL	---		---		---		---	
00120-82-1: TRICHCLORO BENZENE	---		---		---		---	
00123-86-4: BUTYL ACETATE	PASS		PASS		---		---	
00143-33-9: SODIUM CYANIDE	---		---		---		---	
00151-50-8: POTASSIUM CYANIDE	---		---		---		---	
01310-73-2: SODIUM HYDROXIDE	---		---		---		---	
07647-01-0: HYDROGEN CHLORIDE	---		---		---		---	
07664-39-3: HYDROGEN FLUORIDE	---		---		---		---	
07664-41-7: AMMONIA	---		---		---		---	
07664-93-9: SULFURIC ACID	---		---		---		---	
07697-37-2: NITRIC ACID	---		---		---		---	
07782-50-5: CHLORINE	---		---		---		---	
00078-83-1: ISOBUTYL ALCOHOL	---		---		PASS		PASS	
10102-43-9: NITROGEN OXIDE	---		---		---		---	
64742-65-0: DISTILLATE HEAVY PARAFINIC	---		---		---		---	
01333-86-4: CARBON BLACK	---		---		---		---	
Apparel or other textile product manufacturing								
00630-08-0: CARBON MONOXIDE	PASS		PASS		---		---	
NY075-00-0: PARTICULATES	PASS		PASS		---		---	
10102-44-0: NITROGEN DIOXIDE	PASS		PASS		PASS		PASS	
07446-09-5: SULFUR DIOXIDE	PASS		PASS		PASS		PASS	
00064-19-7: ACETIC ACID	PASS		PASS		PASS		PASS	
00067-56-1: METHANOL	---		---		---		---	
00067-63-0: ISOPROPYL ALCOHOL	---		---		---		---	
00067-64-1: ACETONE	---		---		---		---	
00071-55-6: METHYL CHLOROFORM	---		---		---		---	
00074-90-8: HYDROGEN CYANIDE	---		---		---		---	
00075-09-2: DICHLOROMETHANE	---		---		---		---	
00078-93-3: METHYL ETHYL KETONE	---		---		---		---	
00079-01-6: TRICHLOROETHYLENE	---		---		---		---	
00095-50-1: DICHLOROBENZINE, ortho	PASS		PASS		PASS		PASS	
00107-21-1: ETHYLENE GLYCOL	---		---		---		---	
00108-88-3: TOLUENE	PASS		PASS		PASS		PASS	
00112-34-5: BUTYL CARBITOL	---		---		---		---	
00120-82-1: TRICHCLORO BENZENE	PASS		PASS		---		---	
00123-86-4: BUTYL ACETATE	---		---		---		---	
00143-33-9: SODIUM CYANIDE	---		---		---		---	
00151-50-8: POTASSIUM CYANIDE	---		---		---		---	
01310-73-2: SODIUM HYDROXIDE	---		---		---		---	
07647-01-0: HYDROGEN CHLORIDE	---		---		---		---	
07664-39-3: HYDROGEN FLUORIDE	---		---		---		---	
07664-41-7: AMMONIA	PASS		PASS		PASS		PASS	
07664-93-9: SULFURIC ACID	---		---		---		---	
07697-37-2: NITRIC ACID	---		---		---		---	
07782-50-5: CHLORINE	---		---		---		---	

	Project Industrial Source Analysis [1] [2] [3]							
	Short-Term Time Period				Annual Time Period			
	Rooftop Vertical Exhaust Stack		Façade Horizontal Exhaust Stack	Rooftop Horizontal Exhaust Stack	Rooftop Vertical Exhaust Stack		Façade Horizontal Exhaust Stack	Rooftop Horizontal Exhaust Stack
Use Groups & Pollutants	**Site 1E**	**Site 2B**	**Site 1E**	**Site 2B**	**Site 1E**	**Site 2B**	**Site 1E**	**Site 2B**
00078-83-1: ISOBUTYL ALCOHOL	---		---		---		---	
10102-43-9: NITROGEN OXIDE	---		---		PASS		PASS	
64742-65-0: DISTILLATE HEAVY PARAFINIC	---		---		---		---	
01333-86-4: CARBON BLACK	---		---		---		---	
Fur good manufacturing (excl. tanning/dyeing)								
00630-08-0: CARBON MONOXIDE	PASS		PASS		---		---	
NY075-00-0: PARTICULATES	PASS		PASS		---		---	
10102-44-0: NITROGEN DIOXIDE	---		---		---		---	
07446-09-5: SULFUR DIOXIDE	PASS		PASS		PASS		PASS	
00064-19-7: ACETIC ACID	---		---		---		---	
00067-56-1: METHANOL	---		---		---		---	
00067-63-0: ISOPROPYL ALCOHOL	---		---		---		---	
00067-64-1: ACETONE	---		---		---		---	
00071-55-6: METHYL CHLOROFORM	---		---		---		---	
00074-90-8: HYDROGEN CYANIDE	---		---		---		---	
00075-09-2: DICHLOROMETHANE	---		---		---		---	
00078-93-3: METHYL ETHYL KETONE	---		---		---		---	
00079-01-6: TRICHLOROETHYLENE	---		---		---		---	
00095-50-1: DICHLOROBENZINE, ortho	---		---		---		---	
00107-21-1: ETHYLENE GLYCOL	---		---		---		---	
00108-88-3: TOLUENE	---		---		---		---	
00112-34-5: BUTYL CARBITOL	---		---		---		---	
00120-82-1: TRICHCLORO BENZENE	---		---		---		---	
00123-86-4: BUTYL ACETATE	---		---		---		---	
00143-33-9: SODIUM CYANIDE	---		---		---		---	
00151-50-8: POTASSIUM CYANIDE	---		---		---		---	
01310-73-2: SODIUM HYDROXIDE	---		---		---		---	
07647-01-0: HYDROGEN CHLORIDE	---		---		---		---	
07664-39-3: HYDROGEN FLUORIDE	---		---		---		---	
07664-41-7: AMMONIA	---		---		---		---	
07664-93-9: SULFURIC ACID	---		---		---		---	
07697-37-2: NITRIC ACID	---		---		---		---	
07782-50-5: CHLORINE	---		---		---		---	
00078-83-1: ISOBUTYL ALCOHOL	---		---		---		---	
10102-43-9: NITROGEN OXIDE	---		---		---		---	
64742-65-0: DISTILLATE HEAVY PARAFINIC	---		---		---		---	
01333-86-4: CARBON BLACK	---		---		---		---	
Soap or detergent packaging								
00630-08-0: CARBON MONOXIDE	PASS		PASS		---		---	
NY075-00-0: PARTICULATES	PASS		PASS		---		---	
10102-44-0: NITROGEN DIOXIDE	---		---		---		---	
07446-09-5: SULFUR DIOXIDE	PASS		PASS		PASS		PASS	
00064-19-7: ACETIC ACID	---		---		---		---	
00067-56-1: METHANOL	---		---		---		---	
00067-63-0: ISOPROPYL ALCOHOL	---		---		---		---	
00067-64-1: ACETONE	---		---		---		---	
00071-55-6: METHYL CHLOROFORM	---		---		---		---	
00074-90-8: HYDROGEN CYANIDE	---		---		---		---	
00075-09-2: DICHLOROMETHANE	---		---		---		---	
00078-93-3: METHYL ETHYL KETONE	---		---		---		---	
00079-01-6: TRICHLOROETHYLENE	---		---		---		---	
00095-50-1: DICHLOROBENZINE, ortho	---		---		---		---	
00107-21-1: ETHYLENE GLYCOL	---		---		---		---	
00108-88-3: TOLUENE	---		---		---		---	
00112-34-5: BUTYL CARBITOL	---		---		---		---	
00120-82-1: TRICHCLORO BENZENE	---		---		---		---	
00123-86-4: BUTYL ACETATE	---		---		---		---	
00143-33-9: SODIUM CYANIDE	---		---		---		---	

	Project Industrial Source Analysis [1] [2] [3]							
	Short-Term Time Period				Annual Time Period			
	Rooftop Vertical Exhaust Stack		Façade Horizontal Exhaust Stack	Rooftop Horizontal Exhaust Stack	Rooftop Vertical Exhaust Stack		Façade Horizontal Exhaust Stack	Rooftop Horizontal Exhaust Stack
Use Groups & Pollutants	**Site 1E**	**Site 2B**	**Site 1E**	**Site 2B**	**Site 1E**	**Site 2B**	**Site 1E**	**Site 2B**
00151-50-8: POTASSIUM CYANIDE	PASS		PASS		PASS		PASS	
01310-73-2: SODIUM HYDROXIDE	PASS		PASS		---		---	
07647-01-0: HYDROGEN CHLORIDE	PASS		PASS		PASS		PASS	
07664-39-3: HYDROGEN FLUORIDE	---		---		---		---	
07664-41-7: AMMONIA	PASS		PASS		PASS		PASS	
07664-93-9: SULFURIC ACID	PASS		PASS		PASS		PASS	
07697-37-2: NITRIC ACID	PASS		PASS		PASS		PASS	
07782-50-5: CHLORINE	---		---		---		---	
00078-83-1: ISOBUTYL ALCOHOL	---		---		---		---	
10102-43-9: NITROGEN OXIDE	---		---		---		---	
64742-65-0: DISTILLATE HEAVY PARAFINIC	---		---		---		---	
01333-86-4: CARBON BLACK	---		---		---		---	
Textile spinning, weaving, manufacturing, dyeing, printing								
00630-08-0: CARBON MONOXIDE	PASS		PASS		---		---	
NY075-00-0: PARTICULATES	PASS		PASS		---		---	
10102-44-0: NITROGEN DIOXIDE	---		---		---		---	
07446-09-5: SULFUR DIOXIDE	PASS		PASS		PASS		PASS	
00064-19-7: ACETIC ACID	---		---		---		---	
00067-56-1: METHANOL	---		---		---		---	
00067-63-0: ISOPROPYL ALCOHOL	---		---		---		---	
00067-64-1: ACETONE	---		---		---		---	
00071-55-6: METHYL CHLOROFORM	---		---		---		---	
00074-90-8: HYDROGEN CYANIDE	---		---		---		---	
00075-09-2: DICHLOROMETHANE	---		---		---		---	
00078-93-3: METHYL ETHYL KETONE	---		---		---		---	
00079-01-6: TRICHLOROETHYLENE	---		---		---		---	
00095-50-1: DICHLOROBENZINE, ortho	---		---		---		---	
00107-21-1: ETHYLENE GLYCOL	---		---		---		---	
00108-88-3: TOLUENE	---		---		---		---	
00112-34-5: BUTYL CARBITOL	---		---		---		---	
00120-82-1: TRICHCLORO BENZENE	---		---		---		---	
00123-86-4: BUTYL ACETATE	---		---		---		---	
00143-33-9: SODIUM CYANIDE	---		---		---		---	
00151-50-8: POTASSIUM CYANIDE	---		---		---		---	
01310-73-2: SODIUM HYDROXIDE	---		---		---		---	
07647-01-0: HYDROGEN CHLORIDE	---		---		---		---	
07664-39-3: HYDROGEN FLUORIDE	---		---		---		---	
07664-41-7: AMMONIA	---		---		---		---	
07664-93-9: SULFURIC ACID	---		---		---		---	
07697-37-2: NITRIC ACID	---		---		---		---	
07782-50-5: CHLORINE	---		---		---		---	
00078-83-1: ISOBUTYL ALCOHOL	---		---		---		---	
10102-43-9: NITROGEN OXIDE	---		---		---		---	
64742-65-0: DISTILLATE HEAVY PARAFINIC	---		---		---		---	
01333-86-4: CARBON BLACK	---		---		---		---	

Exceedances of SGC/AGC threshold in bold.

Notes:
(1) Modeling analysis for Building 1E included vertical exhaust stacks placed on the rooftop on all four facades and horizontal exhaust stacks placed on cellar, floor 3 and floor 4 on all 4 facades.
(2) Moddling analsis for Building 1B includes vertical exhaust stacks on rooftop facing three facades (north, south and west) and horizontal exhaust stack on the rooftop facing east facade.

Appendix F-3: Proposed Air Quality (E) Designations

A. INTRODUCTION

Under the proposed zoning, (E) Designations are proposed to avoid impacts on privately owned parcels on projected or potential development sites with respect to air quality (potential industrial uses). A description of the requirements of those (E) Designations follows. A list of the sites, blocks, and lots affected by the (E) Designations is presented in **Tables F-3-1** through **F-3-2**.

B. PROPOSED (E) DESIGNATIONS

INDUSTRIAL USE (E) DESIGNATIONS

Under the proposed zoning, (E) Designations are proposed to avoid impacts on privately owned parcels on projected development sites with respect to industrial uses. A refined analysis was performed utilizing the AERMOD dispersion model (see **Chapter 14," Air Quality"**). The results indicated that two Buildings are anticipated to include industrial uses in the reasonable worst-case scenario would require restrictions in order to provide an adequate level of protection. A description of the requirements of those (E) Designations are found in **Table F-3-1** and **F-3-2**.

Table F-3-1
Proposed Industrial Use (E) Designations

Development Site	Block	Lots	Proposed (E) Designation
1B	1576	1 and 34	Exhaust vertical stacks for industrial processes must be located to the tallest portion of the roof either on the north, south or west façade. Any new industrial development must ensure pollutant emissions are below the air pollutant emission limits listed in **Table F-3-2**.
1E	1577	1, 7, 56 and 58	Exhaust vertical stacks for industrial processes must be located to the tallest portion of the roof. Any new industrial development must ensure pollutant emissions are below the air pollutant emission limits listed in **Table F-3-2**.

Table F-3-2
Air Pollutant Emissions Limits

Air Pollutant	CAS Number	Short-Term Emission Limit (lb/hr)	Annual Emission Limit (lb/yr)
Projected Development Site 1B			
Trichloroethylene	00079-01-6	0.11	390
Projected Development Site 1E			
Trichloroethylene	00079-01-6	0.1	650

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