APPENDIX I

DATA TABLES

31 TONAWANDA STREET
SITE NO. C915299

2014 PANAMERICAN ENVIRONMENTAL PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

TABLE 1 - 31 TONAWANDA STREET - PHASE 2 ESA SOIL SAMPLE ANALTICAL RESULTS SUMMARY							
Sampling Program	**PEI - Phase 2 ESA SOIL BORING SAMPLING PROGRAM**						
Sample Number	**BH 5**	**BH 5-3N**	**BH 7**	**BH 8**	**NYSDEC**	**NYSDEC**	**NYSDEC**
Sample Date	**4/11/2014**	**9/9/2014**	**4/11/2014**	**4/11/2014**	**PART 375**	**PART 375**	**PART 375**
Sample depth (bgs)	**9' - 12'**	**11' - 12'**	**9' - 12'**	**5' - 8'**	**Residential**	**Restrict Res**	**Commercial**
Compounds	**ppm**	**ppm**	**ppm**	**ppm**	**(a)**	**(b)**	**(c)**
Metals							
Mercury	**1.2**	NA	0.51	0.04	0.81	1	2.8
Arsenic	12.10	NA	11.5	8.5	16	16	16
Barium	340.0	NA	137	34.4	350	400	400
Beryllium	ND	NA	0.84	ND	14	72	590
Cadmium	2.40	NA	ND	0.94	2.5	4.3	9.3
Chromium	28.5	NA	28.8	**202 (a)(b)**	36	180	1500
Copper	**911 (a)(b)(c)**	NA	**747 (a)(b)(c)**	**9550 (a)(b)(c)**	270	270	270
Lead	**876 (a)(b)**	NA	263	130	400	400	1000
Manganese	200	NA	502	**7780 (a)(b)**	2000	2000	10000
Nickel	20.9	NA	36.3	14.3	140	310	310
Selenium	ND	NA	ND	5.8	36	180	1500
Silver	ND	NA	ND	ND	36	180	1500
Zinc	1410	NA	202	518	2200	10000	10000
PCBS							
PCBS	ND	NA	ND	ND	1	1	1
Pesticides							
4,4-DDT	0,009	NA	ND	ND	1.7	N	47.0
4,4 DDD	0.005	NA	ND	ND	2.6	13	92.0
4,4-DDE	0.01	NA	ND	ND	1.8	8.9	62.0
Endrin Aldehyde	0.021	NA	ND	ND	N/A	N/A	N/A
alpha-BHC	0.009	NA	ND	ND	0.097	0.48	3.4
beta BHC	0.009	NA	ND	ND	0.072	0.36	3
delta BHC	0.021	NA	ND	ND	100	100	500
Endosulfan I	0.005	NA	ND	ND	4.8	24	200
Endosulfan Ii	0.009	NA	ND	ND	4.8	24	200
Endosulfan Sulfate	0.01	NA	ND	ND	4.8	24	200
Endrin	0.007	NA	ND	ND	2.2	11	89.00
Endrin Ketone	0.011	NA	ND	ND	N/A	N/A	N/A
cis-Chlordane	0.014	NA	ND	ND	N/A	N/A	N/A
Dieldrin	0.011	NA	ND	ND	0.039	0.2	1.40
gamma-BHC	0.013	NA	ND	ND	0.28	1.3	9.20
Heptachlor	0.026	NA	ND	ND	0.42	2.1	15.00
Heptachlor-Chlordane	0.009	NA	ND	ND	N/A	N/A	N/A
VOCs							
cis-1,2-Dichloroethene	**880 (a(b)(c)**	0.026	ND	0.023	59	100	500
1,1,2,2-Tetrachloroethane	ND	0.041	ND	ND	NA	NA	NA
1,1,2-Trichloroethane	ND	0.037	ND	ND	NA	NA	NA
1,2,4-Trimethylbenzene	ND	0.048	ND	ND	47	52	190
1,3,5-Trimethylbenzene	ND	0.041	ND	ND	47	52	190
1,4-dioxane	ND	1.08	ND	ND	9.8	13	130
2-Butanone	ND	0.1	ND	ND	NA	NA	NA
Acetone	ND	0.4	ND	ND	100	100	500
Isopropylbenzene	ND	0.014	ND	ND	NA	NA	NA
m,p-Xylene	ND	0.026	ND	ND	100	100	500
Methylcyclohexane	ND	0.022	ND	ND	NA	NA	NA
Naphthalene	ND	0.098	ND	ND	100	100	500
n-Butylbenzene	ND	0.035	ND	ND	NA	NA	NA
o-Xylene	ND	0.03	ND	ND	100	100	500
Trichloroethene	**6960 (a)(b)(c)**	0.17	ND	0.17	10	21	200
SVOCs							
Acenaphthene	6.2	39.2	ND	ND	100	100	500
Acenaphthylene	ND	12.8	ND	ND	100	100	500
Anthracene	ND	60.7	ND	ND	100	100	500
Benzo(a)anthracene	**6.02 (a)(b)(c)**	**48.9 (a)(b)(c)**	ND	ND	1	1	5.6
Benzo (a) pyrene	ND	**47.4 (a)(b)(c)**	ND	ND	1	1	1
Benzo(b)fluoranthene	**5.7 (a)(b)(c)**	**24.2 (a)(b)(c)**	ND	ND	1	1	5.6
Benzo (g,h,i) perylene	ND	19.5	ND	ND	100	100	500
Benzo (k) fluoranthene	ND	**25.3 (a)(b)**	ND	ND	1	3.9	56
Chrysene	**7.74 (a)(b)**	**53.2 (a)(b)**	ND	ND	1	3.9	56
Fluoranthene	11	83.1	ND	0.45	100	100	500
Fluorene	ND	36	ND	ND	100	100	500
Indeno (1,2,3-cd) pyrene	ND	**16.6 (a)(b)(c)**	ND	ND	0.5	0.5	5.6
Phenanthrene	17.1	**142 (a)(b)**	ND	0.34	100	100	500
Pyrene	15	**137 (a)(b)**	ND	0.36	100	100	500

ND - Non-Detect NA - Not Available or Not analyzed for

Shaded Value - Exceeds Part 375 SCOs

2015 PANAMERICAN ENVIRONMENTAL LIMITED SUB-SLAB SOIL/ SUBSURFACE ASSESSMENT REPORT

TABLE 2 - 31 TONAWANDA STREET - FLOOR BORING SAMPLES - ANALTICAL RESULTS SUMMARY REV 3-19-15						
Sampling Program	**PEI - PHASE 2 ESA SOIL BORING SAMPLING PROGRAM**					
Sample/Boring Number	**C-1**	**C-3**	**C-4**	**NYSDEC**	**NYSDEC**	**NYSDEC**
Sample Date	**3/5/2015**	**3/5/2015**	**3/5/2015**	**PART 375**	**PART 375**	**PART 375**
Sample depth (bgs)	**8' - 12'**	**6' - 8'**	**6' - 8'**	**Residential**	**Restrict Res**	**Commercial**
Compounds	**ppm**	**ppm**	**ppm**	**(a)**	**(b)**	**(c)**
VOCs						
cis-1,2-Dichloroethene	**72.8 (a)**	1.5	0.6	59	100	500
1,1-Dichloroethane	**31.5 (a)(b)**	0.3	0.9	19	26	240
1,1-Dichloroethene	17.7	ND	ND	100	100	500
1,1,1 -Trichloroethane	**670 (a)(b)(c)**	4.3	8	100	100	500
Tetrachloroethene	**ND**	0.3	ND	5.5	19	150
Trichloroethene	**15.1 (a)**	**1630 (a)(b)(c)**	**244 (a)(b)(c)**	10	21	200

ND - Non-Detect NA - Not Available or Not analyzed for

Shaded Value - Exceeds Part 375 SCOs

2019 BE3
REMEDIAL INVESTIGATION REPORT

TABLE 2
31 TONAWANDA STREET - RI SOIL BORING SAMPLE ANALYTICAL RESULTS SUMMARY

Contaminants	Sample Identification						Date Sampled: 8/16/18				PART 375 Soil Cleanup Objectives			
	BH-1 (0-3')	BH-1 (13.5 -15')	BH-2 (19- 20') Native	BH-3S (12 -13.5')	BH-4 (0 -1') Surface	BH-4 (11.5 - 12')	BH-5 (0-2') Surface	BH-5 (4 - 6')	BD-6 (0 - 2') Surface	BH-6 (4 - 6')	Unrestricted Use	Residential	Restricted Residential	Protection of Groundwater
METALS														
Arsenic	3.9	4.21	1.33	6.61	7.18	11.5	7.45	4.16	6.01	8.96	13	16	16	16
Barium	20.8	74.2	26.4	102	158	93.9	180	61.8	88.6	269	350	350	400	820
Beryllium	0.058	0.52	0.138	0.544	0.556	0.59	0.499	0.134	0.476	0.394	7.2	14	72	47
Cadmium	0.509	0.68	0.361	0.997	1.18	0.72	1.23	1.61	0.805	**2.55**	2.5	2.5	4.3	7.5
Chromium	9.9	16	6.5	21.6	17.9	13.9	18.2	7.14	18.4	28.1	30	36	180	NA
Copper	**121**	28.2	14	**150**	**66.8**	29.8	**102**	**141**	**34.4**	**1480**	50	270	270	1720
Lead	59.5	**68.3**	7.19	**120**	**249**	46.3	**309**	**190**	**134**	**346**	63	400	400	450
Manganese	198	221	306	238	624	213	516	246	438	175	1600	2,000	2,000	2,000
Total Mercury	0.08	**0.46**	0.01	**0.56**	**0.69**	**0.38**	**0.43**	**0.21**	0.13 J	**1.34**	0.18	0.81	0.81	0.73
Nickel	6.94	20.3	8.08	19.2	15.7	40.9	16.3	9.83	14.1	16.3	30	140	310	130
Selenium	0.337	0.731	0.411	1.22	1.12	0.746	0.888	0.697	0.576 J	1.16	3.9	36	180	4
Silver	0.168	0.266	ND	0.628	0.395	ND	0.546	0.171	0.21 J	0.58	2	36	180	8.3
Zinc	**119**	85.9	83.5	**219**	**248**	**950**	**286**	**1180**	**155**	**1350**	109	2200	10,000	2480
Cyanide	0.0004 J	ND	ND	ND	ND	0.71 J	ND	0.001 J	ND	ND	27	27	27	40
PCBs														
PCB-1254	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.1	1	1	3.2
PCB-1260	0.035 J	ND	ND	ND	ND	ND	ND	0.068 J	ND	ND	0.1	1	1	3.2
PESTICIDES														
4,4-DDT	**0.033 J**	ND	ND	ND	ND	ND	ND	**0.006**	**0.005**	0.003 J	0.0033	1.7	7.9	136
4,4-DDE	ND	ND	ND	ND	ND	ND	ND	ND	**0.004 J**	ND	0.0033	1.8	8.9	17
4,4-DDD	ND	ND	ND	0.005 J	ND	ND	ND	**0.005 J**	**0.004 J**	ND	0.0033	2.6	13	14
alpha-BHC	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.002 J	0.02	0.097	0.48	0.02
beta-BHC	**0.24**	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.036	0.072	0.36	0.09
Endosulfan 11	ND	ND	ND	ND	ND	ND	ND	0.004 J	ND	ND	2.4	4.8	24	102
Endosulfan Sulfate	0.076 J	ND	ND	ND	ND	ND	0.002 J	ND	ND	0.007 J	2.4	4.8	24	1000
Endrin	**0.019 J**	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.014	2.2	11	0.06
Endrin Ketone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA
Dieldrin	**0.112 J**	ND	ND	ND	ND	ND	**0.005 J**	0.002 J	ND	ND	0.005	0.039	0.2	0.1
SEMIVOLATILE ORGANIC COMPOUNDS														
Acenaphthene	1.2 J	ND	0.438	1.46 J	1.23	ND	ND	ND	ND	ND	20	100	100	98
Acenapthylene	ND	ND	0.31	0.595 J	0.398 J	ND	ND	ND	ND	ND	100	100	100	107
Anthracene	2.25	0.73 J	ND	1.76 J	2.8	ND	0.303 J	0.229 J	ND	ND	100	100	100	1000
Benz(a)anthracene	**7.17**	**1.45 J**	ND	**2.58 J**	**5.7**	ND	**1.08**	0.756 J	0.588	0.28 J	1	1	1	1
Benzo(a)pyrene	**6.37**	0.908 J	ND	**1.68 J**	**4.87**	ND	0.997	0.669 J	0.541	0.24 J	1	1	1	22
Benzo(b)fluoranthene	**6.76**	0.663 J	ND	**1.14 J**	**5.02**	ND	**1.04**	0.656 J	0.627	0.35 J	1	1	1	1.7
Benzo(g,h,i)perylene	4.25	0.354 J	ND	0.908 J	2.98	ND	0.682	0.536 J	0.384	0.22 J	100	100	100	1000
Benzo(k)fluoranthene	**5.41**	0.762 J	ND	**1.02 J**	3.03	ND	0.702	0.482 J	0.399	0.22 J	0.8	1	3.9	1.7
Chrysene	**8.83**	**1.3 J**	ND	**2.88 J**	**5.93**	0.27 J	**1.18**	0.841 J	0.689	0.409 J	1	1	3.9	1
Dibenz(a,h)anthracene	**1.56 J**	ND	ND	ND	**1.06**	ND	0.246 J	ND	ND	ND	0.33	0.33	0.33	1000
Fluoranthene	18.8	2.29 J	ND	4.36 J	13.5	0.478	2.32	1.45 J	1.2	0.498 J	100	100	100	1000
Fluorene	1.06 J	0.283 J	0.23 J	1.14 J	1.18	ND	ND	0.35 J	ND	ND	30	100	100	386
Indeno(1,2,3-cd)pyrene	**4.89**	0.458 J	ND	**0.829 J**	**3.51**	ND	**0.765**	**0.507 J**	0.423	0.21 J	0.5	0.5	0.5	8.2
Naphthalene	0.88 J	ND	2.7	0.701 J	0.44 J	0.38 J	ND	**46 J**	ND	0.212 J	12	100	100	12
Phenanthrene	15.1	1.4 J	0.58	5.11 J	10.6	0.587	1.19	1.4 J	0.56	0.58	100	100	100	1000
Pyrene	16	2 J	ND	7.75 J	11.4	0.427 J	1.99	1.3 J	1.0	0.49	100	100	100	1000
TICs	33.4 J	18.5 J	4 J	47.1 J	26.4 J	24.6 J	3 J	178 J	8.8 J	48 J	NA	NA	NA	NA
VOLATILE ORGANIC COMPOUNDS														
Acetone	ND	ND	ND	**0.25 J**	NA	**0.062**	NA	ND	NA	**0.38 J**	0.05	100	100	0.05
Toluene	ND	ND	ND	0.015	NA	ND	NA	**8.06**	NA	0.219 J	0.7	100	100	0.7
1,1,1-Trichloroethane	0.007	ND	ND	ND	NA	ND	NA	ND	NA	0.101 J	0.68	100	100	0.68
1,1-Dichloroethane	ND	ND	ND	ND	NA	ND	NA	ND	NA	0.192 J	0.27	19	26	0.27
1,1-Dichloroethene	ND	ND	ND	ND	NA	ND	NA	ND	NA	0.007 J	0.33	100	100	0.33
1,2-Dichloroethane	ND	ND	ND	ND	NA	ND	NA	ND	NA	0.014	0.02	2.3	3.1	0.02
Benzene	ND	ND	**0.082 J**	ND	NA	ND	NA	ND	NA	0.007 J	0.06	2.9	4.8	0.06
cis-1,2-Dichloroethene	0.004 J	**152.0**	**0.36**	0.004 J	NA	ND	NA	ND	NA	**0.417 J**	0.25	59	100	0.25
Ethylbenzene	ND	ND	0.18	0.005 J	NA	ND	NA	**168**	NA	0.051 J	1	30	41	1
m,p-Xylene	ND	ND	ND	0.017 J	NA	0.005 J	NA	**595**	NA	0.172 J	0.26	100	100	1.6
Methylene chloride	ND	ND	ND	0.018 J	NA	ND	NA	ND	NA	0.02 J	0.05	51	100	0.05
n-Propylbenzene	ND	ND	ND	ND	NA	ND	NA	**11.5**	NA	0.01 J	3.9	100	100	3.9
sec-Butylbenzene	ND	ND	ND	ND	NA	ND	NA	8.5	NA	0.007 J	11	100	100	11
Tetrachloroethene	ND	ND	ND	ND	NA	ND	NA	ND	NA	0.019 J	1.3	5.5	19	1.3
Trichloroethene	0.206	ND	ND	ND	NA	ND	NA	ND	NA	0.16 J	0.47	10	21	0.47
trans-1,2-Dichloroethene	ND	**2.3 J**	ND	ND	NA	ND	NA	ND	NA	ND	0.19	100	100	0.19
Vinyl chloride	ND	**30.7**	0.2	ND	NA	ND	NA	ND	NA	**0.086 J**	0.02	0.21	0.9	0.02
1,2,4-Trimethylbenzene	ND	ND	ND	0.008 J	NA	ND	NA	**91.4**	NA	0.097 J	3.6	47	52	3.6
1,3,5- Trimethylbenzene	ND	ND	ND	0.006 J	NA	ND	NA	**44.3**	NA	0.041 J	8.4	47	52	8.4
TICs	0.09 J	ND	0.35 J	1.16 J	NA	6.91 J	NA	1790 J	NA	18.1 J	NA	NA	NA	NA

ND - Non-Detect NA - Not Applicable All Data is Validated J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

>/= to Residential/Restricted-Residential SCO and Unrestricted Use SCO All values in ppm

>Unrestricted Use SCO but <Residential/Restricted-Residential SCO. VOCs Only: >Unrestricted Use/Protection of GW SCOs but <Residential/Restricted-Residential SCO

>Unrestricted Use & Residential SCO but <Restricted-Residential SCO

Table 3
31 Tonawanda Street Building
Sub Slab Vapor Ambient Air Analytical Results
EPA Air Method Toxic Organics -15 (TO-15)

	Sample Identification												NYSDOH Minimum Action Levels[a]	
Sample Date	**8/21/18**	**8/21/18**	**8/21/18**	**8/21/18**	**8/21/18**	**8/21/18**	**8/21/18**	**8/21/18**	**8/21/18**	**8/21/18**	**8/21/18**	**8/21/18**	**Sub Slab Vapor Concentration**	**Indoor Air Concentration**
TO-15 Contaminants	**IA-01 Indoor**	**SS-01 Sub Slab**	**IA-02 Indoor**	**SS-02 Sub Slab**	**SS-03 Sub Slab**	**IA-03 Indoor**	**SS-06 Sub Slab**	**IA-04 Indoor**	**SS-04 Sub Slab**	**SS-05 Sub Slab**	**IA-05 (1) Indoor**	**OA-01 Outdoor**		
VOLATILE ORGANIC COMPOUNDS[b]														
1,1,1-Trichloroethane	2.8	78 J	9.2	350 J	290 J	5	68 J	34	59	16	1700	ND	100	3
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	8.2	ND	2.9	ND	6	0.2
1,2,4-Trimethylbenzene	1.4	9.9 J	2.4	9.3 J	8.6 J	1.4	2.5 J	1.4	5.5 J	4.7 J	7.3 J	0.69		
1,3,5-Trimethylbenzene	ND	3.4	0.88	3.3 J	3 J	0.59	0.79 J	ND	2.7 J	2.1 J	3.4 J	ND		
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
2,2,4-Trimethylpentane	0.61	0.79	1.4	1.8	3.5 J	1.7	1.4	0.89	0.51	1.7	0.51	ND		
4-Ethyltoluene	ND	2.5 J	ND	2.4 J	2.2 J	ND	ND	ND	1.4 J	1.1 J	1.8 J	ND		
Acetone	19	910	17	1200 J	140 J	12	140	17	170	49	77	20		
Benzene	1.6	4.8 J	2.3	4.6 J	ND	1.7	2 J	0.93	4.6	1.6	0.99	0.54		
Carbon disulfide	ND	17	ND	18 J	31 J	ND	2.7	ND	27	1.3	ND	ND		
Carbon tetrachloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6	0.2
Chloroethane	ND	ND	ND	ND	ND	0.68	0.34	0.7	7.7	ND	0.63	ND		
Chloroform	ND	1.3	ND	1.8 J	1.9 J	ND	ND	ND	2.4	ND	1.4	ND		
Chloromethane	0.89	0.35	0.81	0.54 J	0.62 J	ND	0.6	ND	1.7	ND	2.1	0.66		
cis-1,2-Dichloroethene	ND	ND	ND	0.79 J	ND	ND	0.71	ND	0.75	ND	5.5	ND	6	0.2
Cyclohexane	0.62	280	0.79	390 J	560 J	0.45	65	ND	68	9.6	1.4	ND		
Ethyl acetate	0.43	7.4	ND	5.3 J	11 J	ND	2.5	ND	3.9	1.5	5	ND		
Ethylbenzene	0.91	11 J	2.3	7.9 J	8.2 J	1.7	2.3 J	0.78	1.1 J	1.3 J	0.82 J	ND		
Freon 11	9.6	4.5	4.3	3.5 J	2.4 J	2.3	1.6	1.8	2	2.2	1.7	1.1		
Freon 113	ND	ND	ND	ND	J	ND	ND	ND	ND	ND	ND	ND		
Freon 12	1.9	2	2.1	2.4 J	J	2.3	2	2	ND	1.8	1.9	1.9		
Heptane	1.3	72 J	2	39 J	J	1.8	7.4 J	1.3	23	4.7 J	3.6 J	0.57		
Hexane	5	89	6.6	150 J	510	3.7	19	2.2	41	16	2.5	0.7		
Isopropyl alcohol	19	51 J	6.1	650 J	J	2.7	16 J	3.1	19	13 J	25 J	6.6		
m&p-Xylene	3	22 J	8.4	17 J	J	6.5	5.3 J	2.7	2.7 J	4 J	1.9 J	0.61		
Methyl Ethyl Ketone	2.4	69	2.9	110 J	J	1.9	14	1.4	10	3.1	6.4	1.1		
Methylene chloride	ND	3.5	0.63	2.6 J	J	ND	1.3	0.69	3.4	1.6	4.7	ND	100	3
o-Xylene	1.3	7.6 J	2.6	5.8 J	J	2	1.9 J	1.1	1.1 J	1.4 J	0.91 J	ND		
Tetrachloroethylene	ND	2500 J	ND	2900 J	2100 J	ND	390 J	ND	3.9 J	2.1 J	1 J	ND	100	3
Toluene	57	430 J	38	640 J	790 J	15	63 J	7.9	59 J	24 J	21 J	3.2		
Trichloroethene	49	150 J	9	620 J	650 J	4.4	40 J	20	81	83	230	1.3	6	0.2
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	6	0.2

Results and Action levels are presented in micrograms per meters cubed (ug/m^3). All data has been validated

N/A - Not Applicable ND - Non-detect (1) - Sample from Sub Floor Crawlspace

J - Analyte positively identified; the associated numerical value is approximate concentration of the analyte in the sample.

[a]New York State Department of Health (NYSDOH), Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006 and subsequent updates (select matrix coumpounds).

[b]Compounds with detected concentrations

NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, May 2017 Decision Matrices Notes:

NO FURTHER ACTION:

Given that the compound was not detected in the indoor air sample and that the concentration detected in the sub -slab vapor sample is not expected to significantly affect indoor air quality, no additional actions are needed to address human exposures

IDENTIFY SOURCE(S) AND RESAMPLE OR MITIGATE:

The concentration detected in the indoor air sample is likely due to indoor and/or outdoor sources rather than soil vapor int rusion given the concentration detected in the sub-slab vapor sample.
Therefore, steps should be taken to identify potential source(s) and to reduce exposures accordingly (e.g., by keeping containers capped or by storing VOC-containing products in places where people do not spend much time, such as a garage or shed).
Resampling may be recommended to demonstrate the effectiveness of actions taken to reduce exposures.

MONITOR:

Monitoring, including sub-slab vapor, basement air, lowest occupied living space air, and outdoor air sampling, is needed to determine whether concen trations in the indoor air or sub-slab vapor have changed.
Monitoring may also be needed to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air-conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed.
The type and frequency of monitoring is determined on a site-specific and building-specific basis, taking into account applicable environmental data and building operating conditions.
Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

MITIGATE:

Mitigation is needed to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub-slab depressurization system, and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building-specific basis, taking into account building construction and operating conditions.

TABLE 5
31 TONAWANDA STREET - RI GW SAMPLE ANALYTICAL RESULTS SUMMARY

Contaminants	Sample Identification Date Sampled: 9/24/18					Sampled 2/4/19	NYSDEC
	MW-1	MW-2	MW-3	MW-4	MW-5	SBH-3 (2)	TOGS 1.1.1. GA (1)
METALS							
Arsenic	ND	ND	ND	ND	0.02	NA	25
Barium	0.05 J	ND	0.26	0.11	0.06 J	NA	1000
Beryllium	ND	ND	ND	ND	ND	NA	3
Chromium	ND	5.0 J	ND	ND	ND	NA	50
Copper	ND	20.2	ND	0.01	0.01 J	NA	200
Cyanide	ND	ND	ND	ND	ND	NA	200
Lead	ND	6.2 J	ND	ND	ND	NA	25
Manganese	7.23	**547**	0.62	0.65 J	1.15	NA	300
Nickel	ND	ND	ND	ND	ND	NA	100
Total Mercury	ND	ND	ND	ND	ND	NA	0.7
Zinc	0.05 J	38.9 J	ND	0.97	ND	NA	2000
Selenium	ND	ND	ND	ND	ND	NA	10
PCBs							
PCB 1254	ND	ND	ND	ND	ND	NA	0.09
PCB-1260	**1.81 J**	**1.22 J**	ND	ND	ND	NA	0.09
PESTICIDES							
Aldrin	0.057 J	ND	ND	ND	0.12	NA	ND
alpha-BHC	ND	ND	ND	ND	0.08 J	NA	NA
beta-BHC	ND	ND	ND	ND	ND	NA	NA
Dieldrin	ND	ND	ND	ND	**0.07 J**	NA	0.004
Endrin	ND	ND	ND	ND	0.13 J	NA	ND
Heptachlor	ND	ND	**0.104 J**	ND	**0.1 J**	NA	0.04
Heptachlor Epoxide	ND	ND	ND	ND	**0.16 J**	NA	0.03
trans-Chlordane	ND	ND	ND	ND	0.06 J	NA	NA
SEMIVOLATILE ORGANIC COMPOUNDS							
Bis (2-ethylhexyl) phthalate	ND	ND	**49.2**	ND	ND	NA	5
Volatile Organic Compounds							
Acetone	12.9 J	5.13 J	ND	5.94 J	17.5	ND	50
1,1,1-Trichloroethane	ND	1.21 J	**188000 J**	ND	ND	**51.1**	5
1,1-Dichloroethane	ND	ND	**75700**	1.63 J	3.52	**42**	5
1,1-Dichloroethene	ND	ND	**2510 J**	ND	ND	3.13 J	5
cis-1,2-Dichloroethene	ND	2.1 J	**37500**	**5.26**	ND	**369**	5
1,2,4-Trimethylbenzene	ND	ND	ND	ND	3.03	ND	5
1,3,5-Trimethylbenzene	ND	ND	ND	ND	1.15 J	ND	5
1,4-Dioxane	ND	ND	ND	ND	**49.4**	ND	1
Trichloroethene	ND	ND	ND	4.32	1.69 J	**194**	5
trans-1,2-Dichloroethene						3.5 J	5
Vinyl chloride	ND	ND	**5080**	1.69 J	ND	**147**	2
Carbon disulfide	ND	3.45	ND	ND	ND	ND	NA
TICs	ND	ND	ND	ND	518 J	NA	NA
Field Parameters							
Turbidity (NTU)	69.4	10.2	2.3	13.2	17.3	NA	NA
pH	6.81	6.95	6.28	6.98	6.64	NA	NA
Dissolved Oxygen	0	0	0	0	0	NA	NA
Temp (degrees C)	15.82	14.74	15.93	17.87	16.71	NA	NA
Conductivity	3.65	8.44	1.47	1.12	2.75	NA	NA

All values in ppb
N/A - Not Applicable ND - Non-detect All Data is Validated
(1) - TOGs 1.1.1 GA - Technical and Operational Guidance Series (1.1.1) Source of Drinking Water (Groundwater)
(2) - Groundwater sample from Crawl Space SBH-3 boring
Exceeds TOGs Guidance Value
J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

TABLE 10
31 TONAWANDA STREET - CRAWL SPACE SOIL BORING SAMPLE ANALYTICAL RESULTS SUMMARY

Contaminants	Sample Identification						Date Sampled: 2/4/19				PART 375 Soil Cleanup Objectives		
	SBH-1 (2-4')	SBH-1 (8')	SBH-1 (16')	SBH-3 (10 -11')	SBH-4 (8')	SBH-4 (10')	SBH-4 (12')	SBH-5 (4')	SBH-5 (8')	SBH-5 (12')	Unrestricted Use	Residential	Restricted Residential
VOLATILE ORGANIC COMPOUNDS													
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	100	100
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7	100	100
1,1,1-Trichloroethane	ND	0.075	ND	0.29	**37 J**	ND	ND	0.18	**4.23**	**667**	0.68	100	100
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND			0.27	19	26
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	0.079 J	**17.9**	0.33	100	100
1,1-Dichloroethane	ND	ND	ND	**0.075**	ND	ND	ND	**0.035 J**	**1.79**	**246**	0.02	2.3	3.1
Benzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.06	2.9	4.8
cis-1,2-Dichloroethene	ND	ND	0.012	**0.46**	**35.4 J**	**1970**	**1.29**	ND	**1.47**	**221**	0.25	59	100
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	30	41
m,p-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.26	100	100
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	51	100
n-Propylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.9	100	100
sec-Butylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	100	100
Tetrachloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.3	5.5	19
Trichloroethene	**3.26**	**2.56**	0.009	**3.89**	**1660**	**7340**	**0.72**	**3.65**	**11.5**	**474**	0.47	10	21
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	0.03	ND	**0.19**	**7.12**	0.19	100	100
Vinyl chloride	ND	ND	**0.039**	ND	ND	ND	**0.034**	ND	ND	**4.02 J**	0.02	0.21	0.9
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.6	47	52
1,3,5- Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.4	47	52

ND - Non-Detect NA - Not Applicable All Data is Validated J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

>/= to Residential/Restricted-Residential SCO and Unrestricted Use SCO All values in ppm

>Unrestricted Use SCO but <Residential/Restricted-Residential SCO

>Unrestricted Use & Residential SCO but <Restricted-Residential SCO

57-71 TONAWANDA STREET
SITE NO. C915024

1989 CRA
SITE INVESTIGATION REPORT

TABLE 4

TCL VOLATILES DETECTED IN SOIL SAMPLES
(Reported in ppm)

	SS1	*SS2*	*SS3*	*SS4*	*SS5*	*SS6*	*MW1*	*MW2*
Ethylbenzene(0.25)*	ND	ND	ND	0.47/ND	ND	ND	ND	ND
Methylene Chloride (0.25)	ND	ND	ND	ND/ND	ND	ND	ND	0.61
Trichlorethylene (0.25)	ND	ND	0.32	0.35/ND	ND	ND	ND	15
Toluene (0.25)	ND	ND	ND	0.46/ND	0.29	0.47	ND	ND
Styrene (0.25)	ND	ND	ND	5.6/ND	ND	ND	ND	ND
o-Xylene (0.25)	ND	ND	ND	0.84/1.13	ND	ND	ND	ND
m/p-Xylene (0.25)	ND	ND	ND	0.50/0.47	ND	ND	ND	ND

Note: All other TCL Volatile parameters were not detected in any of the samples.

* Detection Limit in ppm.

TABLE 5

TCL VOLATILES DETECTED IN GROUNDWATER SAMPLES
(Reported in ppb)

	MW1-89	*MW2-89*
Vinyl Chloride (10)*	99/100	350
Ethylbenzene (5.0)	9.1/11	ND
1,1-Dichloroethane (5.0)	41/40	39
1,1-Dichloroethylene (5.0)	ND/ND	15
1,2-Dichloroethylene (5.0)	ND/ND	12
1,1,1-Trichloroethane (5.0)	22/23	22
Trichloroethylene (5.0)	ND/ND	310
Benzene (5.0)	60/63	76

Note: All other TCL Volatile parameters were not detected in any of the samples.

* Detection Limit in ppb.

1992 NYSDEC
PHASE II INVESTIGATION REPORT

Table 4-4

INORGANIC ELEMENTS FOUND IN GROUNDWATER

Analyte	Range (µg/L)	NYSDEC Class GA Groundwater Standard or Guidance Value (µg/L)	Samples Exceeding Standard	
			Sample Number	Concentration (µg/L)
Aluminum	ND - 845	NA	--	--
Arsenic	ND - 2.4**	25	--	--
Barium	44.5 - 60.4***	1,000	--	--
Calcium	76,800 - 129,000	NA	--	--
Iron	489 - 2,130	300	GW-1	2,130
			GW-2	489
			GW-3	638
Lead	3.1 - 4.5	25	--	--
Magnesium	11,700 - 53,100	35,000*	GW-1	53,100
			GW-3	35,900
Manganese	123 - 299	300	--	--
Potassium	3,650 - 11,600**	NA	--	--
Sodium	47,200 - 516,000	20,000	GW-1	516,000
			GW-2	47,200
			GW-3	173,000
Zinc	71.3 - 447	30	GW-1	447
			GW-2	94.4
			GW-3	71.3
Cyanide	ND - 27,900	100	GW-1	27,900

02[UZ]YP6080:D3264/6304/20

*Guidance value.
**Analyte present in sample. Reported value may be biased low.
***Analyte present in sample. Quantitation may not be accurate.

Key:

NA = No standard.
ND = Not detected in concentrations significantly higher than in blank.

Source: Ecology and Environment Engineering, P.C. 1991.

Table 4-5

ORGANIC COMPOUNDS FOUND IN GROUNDWATER

Compound	Range (μg/L)	NYSDEC Class GA Groundwater Standard (μg/L)	Samples Exceeding Standard	
			Sample Number	Concentration (μg/L)
Volatiles*				
1,1-Dichloroethane	ND - 53	5	GW-2	53
Total-1,2-Dichloroethene	ND - 340	5**	GW-2	340
1,1,1-Trichloroethane	ND - 370	5	GW-2	370
Trichloroethene	ND - 640	5	GW-2	640
Semivolatiles				
Phenol	ND - 16	1	GW-3	16
Pesticides/PCBs				
Delta BHC	ND - 0.073	NA	--	--

02[UZ]YP6080:D3264/6305/19

*Volatile results for GW-1 and GW-3 are considered as estimates due to surrogate recoveries and/or internal standard problems indicating matrix interferences.

**Groundwater Standard given is for trans-1,2-dichloroethene, although the reported results are for total-1,2-dichloroethene.

Key:

NA = No state standard or guidance value listed.
ND = Not found at or above detection limit.

Source: Ecology and Environment Engineering, P.C. 1991.

Table 4-6

INORGANIC ELEMENTS FOUND IN SURFACE WATER

Analyte	Range (μg/L)	NYSDEC Standard (μg/L)	Samples Exceeding Standard	
			Sample Number	Concentration (μg/L)
Barium	60.1 - 64.3*	NA		
Calcium	169,000 - 176,000	NA		
Iron	582 - 1,130	300	SW-1	784
			SW-2	1,130
			SW-3	582
Lead	7.5 - 15.0	90		
Magnesium	23,200 - 23,800	NA		
Manganese	54.2 - 62.5	NA		
Potassium	3,680 - 3,850*	NA		
Sodium	56,000 - 58,100	NA		
Zinc	35.1 - 54.6	30	SW-1	54.6
			SW-2	45.9
			SW-3	35.1

02[UZ]YP6080:D3264/6306/25

Note: NYSDEC Class B ambient water standards are used. Lead standard calculated based on a hardness of 1,390 mg/L (ppm).

*Inorganic analyte present. Quantitation may not be accurate.

Key:

NA = No standard.
ND = Not detected.

Source: Ecology and Environment Engineering, P.C. 1991.

Table 4-7

INORGANIC ELEMENTS FOUND IN SEDIMENTS

Element	Range (mg/kg)	Common Range for Eastern U.S. Soils (mg/kg)*	Samples Exceeding Common Range: Sample Number	Samples Exceeding Common Range: Concentration (mg/kg)
Aluminum	1,480 - 10,800	7,000 - >100,000	--	
Arsenic	[2.7]*** - 11.0***	<0.1 - 73	--	
Barium	[23.1] - 238	10 - 1,500	--	
Cadmium	4.5 - 10.6	0.01 - 0.70**	SED-1 SED-2 SED-3	10.6 4.5 4.5
Calcium	9,470 - 136,000	100 - 280,000	--	
Chromium	16.8*** - 76.7***	1 - 1,000	--	
Cobalt	ND - [8.0]	<0.1 - 70	--	
Copper	192 - 390	<1 - 700	--	
Iron	13,300 - 25,800	100 - >100,000	--	
Lead	502 - 9,890	<10 - 300	SED-1 SED-2 SED-3	615 502 9,890
Magnesium	1,840 - 12,400	50 - 50,000	--	
Manganese	109 - 536	<2 - 7,000	--	
Mercury	ND - 1.8	0.01 - 3.4	--	
Nickel	23.1 - 42.9	<5 - 700	--	
Potassium	[161] - [1,280]	50 - 37,000	--	
Selenium	ND - [1.2]***	<0.1 - 3.9	--	
Sodium	ND - [1,340]	<500 - 50,000	--	
Vanadium	[6.0]*** - 32.4***	<7 - 300	--	
Zinc	824 - 918	<5 - 2,900	--	

02[UZ]YP6080:D3264/6307/23

*Shacklette and Boerngen, 1984, "Elemental Concentrations in Soils and Other Surficial Materials of the Conterminous United States," USGE Professional Paper 1270.

**W.L. Lindsay, 1979, Chemical Equilibria in Soils, John Wiley and Sons.

***Analyte present. Reported value may be biased low. Actual value expected to be higher.

Key:

[ ] = Analyte present below CRDL but above IDL. Quantitation may not be accurate.

ND = Not detected.

Source: Ecology and Environment Engineering, P.C. 1991.

Table 4-8

ORGANIC COMPOUNDS FOUND IN SEDIMENTS

Compound	Sample Number	Concentration (μg/kg)
Volatiles		
Total-1,2-Dichloroethene	SED-3	13
Trichloroethene	SED-3	17
Tetrachloroethane	SED-3	85
Semivolatiles		
Total PAHs	SED-1	360,000
	SED-3	6,600

02[UZ]YP6080:D3264/4606/35

Source: Ecology and Environment Engineering, P.C. 1991.

Table 4-9

INORGANIC ELEMENTS FOUND IN SUBSURFACE SOILS

Analyte	Range (mg/kg)	Common Range for Eastern U.S. Soils (mg/kg)*	Samples Exceeding Common Range	
			Sample Number	Concentration (mg/kg)
Aluminum	5,310 - 10,800	7,000 - >100,000	--	--
Antimony	ND - 12.3**	<1 - 8.8	--	--
Arsenic	2.1** - 37.1**	<0.1 - 73	--	--
Barium	62.0 - 185	10 - 1,500	--	--
Beryllium	ND - 0.53	<1 - 7	--	--
Cadmium	2.2 - 7.0	0.01 - 0.70***	SB-1A	7.0
			SB-1B	6.2
			SB-1C	2.5
			SB-1D	2.5
			SB-2A	2.5
			SB-2B	2.6
			SB-2C	3.5
			SB-3A	3.7
			SB-3B	2.9
			SB-3C	3.9
			SB-3D	3.1
			SB-4A	5.7
			SB-4B	3.5
			SB-4C	2.2
			SB-4D	2.7
Calcium	2,010 - 125,000	100 - 280,000	--	--
Chromium	12.6** - 304**	1 - 1,000	--	--
Cobalt	ND - 15.5	<0.1 - 70	--	--
Copper	14.1 - 269	<1 - 700	--	--
Iron	15,100 - 41,700	100 - >100,000	--	--
Lead	9.1 - 456	<10 - 300	SB-2A	380
			SB-2C	431
			SB-3A	456
			SB-4A	391
Magnesium	3,060 - 21,300	50 - 50,000	--	--
Manganese	139 - 15,900	<2 - 7,000	SB-1A	15,900
			SB-3A	9,750
Mercury	ND - 1.2	0.01 - 3.4	--	--
Nickel	9.0 - 36.6	<5 - 700	--	--
Potassium	484 - 2,380	50 - 37,000	--	--
Selenium	ND - 0.30**	<0.1 - 3.9	--	--
Silver	ND - 2.1	0.01 - 5	--	--

02[UZ]YP6080:D3264/6308/25

Key at end of table.

Table 4-9 (Cont.)

Analyte	Range (mg/kg)	Common Range for Eastern U.S. Soils (mg/kg)*	Samples Exceeding Common Range	
			Sample Number	Concentration (mg/kg)
Sodium	271 - 539	<500 - 50,000	--	--
Vanadium	14.3** - 140**	<7 - 300	--	--
Zinc	60.2 - 718	<5 - 2,900	--	--
Cyanide	ND - 89.5	NA	--	--

02[UZ]YP6080:D3264/6308/25

*Shacklette and Boerngen, 1984, "Elemental Concentrations in Soils and Other Surficial Materials of the Conterminous United States," USGE Professional Paper 1270.

**Analyte present. Reported value may be biased low. Actual value expected to be higher.

***W.L. Lindsay, 1979, Chemical Equilibria in Soils, John Wiley and Sons.

Key:

NA = No standard.
ND = Not detected.

Source: Ecology and Environment Engineering, P.C. 1991.

Table 4-10

ORGANIC COMPOUNDS FOUND IN SUBSURFACE SOILS

Compound	Sample Number	Concentration (µg/kg)
Volatiles		
Chloroethane	SB-2B	54
1,1-Dichloroethene	SB-2A	9
	SB-2B	16
1,1-Dichloroethane	SB-2A	160
	SB-2B	630
	SB-2C	1,100*
Total-1,2-Dichloroethene	SB-2B	150
	SB-4B	10
	SB-4C	40
	SB-4D	120
1,2-Dichloroethane	SB-2A	7
1,1,1-Trichloroethane	SB-2A	500
	SB-2B	800
Trichloroethene	SB-1A	14**
	SB-1B	19**
	SB-2A	8
	SB-2B	530
	SB-3A	11**
	SB-3B	6
	SB-4A	80
	SB-4B	81
	SB-4C	220
	SB-4D	460
Toluene	SB-3A	15**
Ethylbenzene	SB-2A	36
	SB-2B	38
	SB-2C	40
Total Xylenes	SB-2A	720
	SB-2B	250
	SB-2C	220
Semivolatiles		
Total PAHs	SB-1A	34,000
	SB-1B	30,000
	SB-2A	15,000
	SB-2B	21,000
	SB-2C	23,000
	SB-3A	3,900
	SB-3B	29,000
	SB-4A	9,400

02[UZ]YP6080:D3264/4914/35

*Value considered estimated since it is above the calibration range. Dilution analysis was not run.

**Value considered estimated due to poor surrogate recoveries and/or internal standard areas. Matrix effect was indicated.

Source: Ecology and Environment Engineering, P.C. 1991.

Table 4-11

ORGANIC ANALYSES SUMMARY

Compound	Sample Number	Concentration (µg/L or µg/kg)
Volatiles		
Trichloroethene	GW-2	640
	SED-3	17
	SB-1A	14*
	SB-1B	19*
	SB-2A	8
	SB-2B	530
	SB-3A	11*
	SB-3B	6
	SB-4A	80
	SB-4B	81
	SB-4C	220
	SB-4D	460
Total-1,2-dichloroethene	GW-2	340
	SED-3	13
	SB-2B	150
	SB-4B	10
	SB-4C	40
	SB-4D	120
1,1-Dichloroethane	GW-2	53
	SB-2A	160
	SB-2B	630
	SB-2C	1,100**
1,1,1-Trichloroethane	GW-2	370
	SB-2A	500
	SB-2B	800
Tetrachloroethene	SED-3	85
Chloroethane	SB-2B	54
1,1-Dichloroethene	SB-2A	9
	SB-2B	16
1,2-Dichloroethane	SB-2A	7
Toluene	SB-3A	15
Ethylbenzene	SB-2A	36
	SB-2B	38
	SB-2C	40
Total xylenes	SB-2A	720
	SB-2B	250
	SB-2C	220
Semivolatiles		
Phenol	GW-3	16
Total PAHs	SED-1	360,000
	SED-3	6,600
	SB-1A	34,000
	SB-1B	30,000

02[UZ]YP6080:D3264/4917/35

Key at end of table.

Table 4-11 (Cont.)

Compound	Sample Number	Concentration (μg/L or μg/kg)
	SB-2A	15,000
	SB-2B	21,000
	SB-2C	23,000
	SB-3A	3,900
	SB-3B	29,000
	SB-4A	9,500
Pesticides/PCBs		
Delta BHC	GW-2	0.073

02[UZ]YP6080:D3264/4917/35

*Value considered estimated due to poor surrogate recoveries and/or internal standard areas. Matrix effect was indicated.

**Value considered estimated since it is above the calibration range. Dilution analysis was not run.

Source: Ecology and Environment Engineering, P.C. 1991.

2020 BE3
REMEDIAL INVESTIGATION REPORT

TABLE 1
57-71 TONAWANDA STREET - RI SOIL BORING/TEST PIT SAMPLE ANALYTICAL RESULTS SUMMARY

Contaminants	Sample Identification										PART 375 Soil Cleanup Objectives		
	BH-01 (1-4')	BH-01 (6 -8')	BH-02 (1-2')	BH-03 (1 -4')	BH-04 (1-3')	BH-05 (1 -4')	BH-06 (1-4')	BH-08 (1 - 3')	BH-08 (10-12')	BH-10 (1 - 2')	Unrestricted Use	Residential	Restricted Residential
Sample Date	12/17/2019	12/17/2019	12/18/2019	12/18/2019	12/17/2019	12/18/2019	12/18/2019	12/17/2019	12/17/2019	12/18/2019			
METALS													
Arsenic	2.56	3.10	6.18	3.22	14.4	9.25	4.78	**16.80**	1.28	6.98	13	16	16
Barium	188.00	95.0	57.70	30.00	87.9	65.00	59.40	89.6	156	114	350	350	400
Beryllium	2.14	0.590	0.77	0.27	1.13	0.41	0.38	0.718	1.17	1.05	7.2	14	72
Cadmium	**4.49**	1.80	0.76	1.21	1.36	2.14	1.03	1.76	1.33	1.71	2.5	2.5	4.3
Chromium	82.10	17.3	25.90	12.20	17.6	35.70	14.60	29.9	32.4	37	30	36	180
Copper	86.90	14.3	55.40	92.70	23.2	**1090.00**	151.00	129	16.9	190	50	270	270
Lead	97.20	9.46	71.30	**1390.00**	160	273.00	161.00	152	9.76	185	63	400	400
Manganese	**15000.00**	465	1430.00	483.00	594	**2150.00**	661.00	578	1010	**6360**	1600	2,000	2,000
Total Mercury	0.04	0.01	0.28	0.07	0.167	0.22	0.05	0.128	0.0212	**0.856**	0.18	0.81	0.81
Nickel	44.10	19.4	13.50	11.60	8.49	27.40	11.10	17.8	32.0	14.2	30	140	310
Selenium	3.51	ND	1.00	ND	1.59	0.93	ND	1.49	2.93	1.05	3.9	36	180
Silver	4.75	0.50	0.39	10.00	0.53	1.20	0.48	0.80	ND	1.41	2	36	180
Zinc	287.00	57.3	270.00	157.00	1810	394.00	218.00	1350	72.0	956	109	2200	10,000
Cyanide	ND	0.704	**101.00**	4.30	**188**	ND	ND	26.1	ND	19.2	27	27	27
PCBs													
PCB-1254	ND	ND	ND	ND	ND	ND	0.034	ND	ND	ND	0.1	1	1
PCB-1260	ND	ND	ND	0.031	ND	ND	ND	ND	ND	ND	0.1	1	1
PESTICIDES													
4,4-DDT	ND	ND	ND	0.006	0.004	0.010	0.007	0.009 J	ND	ND	0.0033	1.7	7.9
4,4-DDD	ND	ND	ND	ND	0.007	0.011	ND	0.007 J	ND	ND	0.0033	2.6	13
4,4-DDE	ND	ND	ND	ND	ND	0.002	ND	ND	ND	ND	0.0033	1.8	8.9
delta-BHC	ND	ND	ND	ND	0.003 J	ND	ND	ND	ND	ND	0.04	100	100
Endosulfan II	ND	ND	0.003	ND	0.002	0.002	ND	ND	ND	ND	2.4	4.8	24
Endosulfan Sulfate	ND	ND	0.004	0.003	0.004	0.014	0.002	0.0011 J	ND	0.001	2.4	4.8	24
Lindane	ND	ND	ND	ND	ND	ND	ND	0.003	ND	ND	0.1	0.28	1.3
Endrin	ND	ND	ND	0.002	ND	0.003	ND	0.004	ND	ND	0.014	2.2	11
SEMIVOLATILE ORGANIC COMPOUNDS													
Acenaphthene	ND	ND	ND	1.83	ND	3.61	ND	0.525	ND	ND	20	100	100
Acenapthylene	ND	ND	0.48	ND	0.204	ND	ND	0.833	ND	ND	100	100	100
Anthracene	ND	ND	0.69	0.76	0.291	8.9	0.31	2.28	ND	0.32	100	100	100
Benz(a)anthracene	0.152	ND	**2.65**	**2.58**	**1.27**	**16.6**	**1.05**	**6.09 J**	ND	**1.68**	1	1	1
Benzo(a)pyrene	ND	ND	**2.11**	**2.25**	**1.01**	**12.5**	0.97	**4.71 J**	ND	**1.19**	1	1	1
Benzo(b)fluoranthene	ND	ND	**2.45**	**2.44**	0.978	**10.9**	1.08	**5.74 J**	ND	**1.42**	1	1	1
Benzo(g,h,i)perylene	ND	ND	1.27	1.32	0.702	6.23	0.71	2.89	ND	0.71	100	100	100
Benzo(k)fluoranthene	ND	ND	1.46	1.43	1.116	**10.1**	0.6	3.29	ND	0.92	0.8	1	3.9
Chrysene	ND	ND	2.6	2.17	1.34	**13.9**	1.05	**5.74 J**	ND	1.53	1	1	3.9
Dibenz(a,h)anthracene	ND	ND	**0.59**	**0.41**	ND	**1.85**	ND	**0.704 J**	ND	0.24	0.33	0.33	0.33
Fluoranthene	0.367	ND	6.46	5.01	2.4	37	2.38	16.6	ND	2.73	100	100	100
Fluorene	ND	ND	0.24	0.2	ND	4.02	ND	1.08	ND	ND	30	100	100
Indeno(1,2,3-cd)pyrene	ND	ND	**1.96**	**1.55**	**0.761**	**7.71**	**0.71**	**3.35 J**	ND	**0.89**	0.5	0.5	0.5
Naphthalene	ND	ND	0.73	0.23	1.117	1.71	ND	0.828	ND	0.79	12	100	100
Phenanthrene	0.358	ND	5.05	2.57	1.94	36.2	1.44	9.85	ND	1.68	100	100	100
Pyrene	0.234	ND	4.27	3.32	1.84	25.1	1.55	12.1	ND	2.2	100	100	100
VOLATILE ORGANIC COMPOUNDS													
Acetone	ND	ND	ND	ND	ND	ND	ND	0.016	0.03	ND	0.05	100	100
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7	100	100
Ethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	30	41
m,p-Xylene	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.75	0.26	100	100
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.05	51	100
cis-1,2-Dichloroethene	ND	0.022	66.1	0.038	8.39	ND	ND	ND	ND	4.6	0.25	59	100
Trichloroethene	0.01	0.008	**189**	0.077	1.36	0.089	0.004	ND	ND	8.12	0.47	10	21
trans-1,2-Dichloroethene	ND	ND	ND	0.043	ND	0.043	0.007	ND	ND	0.44	0.19	100	100
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	0.21	0.9
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.6	47	52
1,3,5- Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8.4	47	52

ND - Non-Detect NA - Not Applicable

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

>/= to Residential/Restricted-Residential SCO and Unrestricted Use SCO

>Unrestricted Use SCO but <Residential/Restricted-Residential SCO.

>Unrestricted Use & Residential SCO but <Restricted-Residential SCO

All values in ppm

Data Validtion is Complete

TABLE 1
57-71 TONAWANDA STREET - RI SOIL BORING/TEST PIT SAMPLE ANALYTICAL RESULTS SUMMARY

Contaminants	Sample Identification								PART 375 Soil Cleanup Objectives		
	BH-11 (1-4')	BH-11 (6 -8')	BH-12 (1-2')	BH-13 (1 -2')	TP-14 (8- 9')	TP-16 (1 -3')	TP-17 (3 -4')	MW-4 Soil Sample (12-13')	Unrestricted Use	Residential	Restricted Residential
	12/19/2019	12/19/2019	12/19/2019	12/18/2019	1/8/2020	1/8/2020	1/8/2020	1/14/2020			
METALS											
Arsenic	4.1	5.15	5.17	3.45	2.97	2.55	3.55	NA	13	16	16
Barium	248	132	130	17.9	33.8	44.4	171	NA	350	350	400
Beryllium	0.246	0.972	1.61	0.173	ND	0.181	0.897	NA	7.2	14	72
Cadmium	2.07	1.6	3.01	0.698	0.467	0.248	0.523	NA	2.5	2.5	4.3
Chromium	27.5	26.9	63	10.4	5.82	7.95	25.1	NA	30	36	180
Copper	84.4	21.6	179	**345**	**297**	21.8	23.3	NA	50	270	270
Lead	**825**	9.7	**863**	**165**	52.5	**74.5**	11.7	NA	63	400	400
Manganese	832	555	**8640**	187	133	175	520	NA	1600	2,000	2,000
Total Mercury	0.217	0.0178	0.239	0.023	0.0638	0.0332	0.0145	NA	0.18	0.81	0.81
Nickel	18.1	31.5	12	11.6	7.02	8.43	28.8	NA	30	140	310
Selenium	0.646	0.994	ND	ND	1.94	1.08	0.673	NA	3.9	36	180
Silver	1.22	0.727	3.22	ND	ND	ND	ND	NA	2	36	180
Zinc	1660	83.6	4240	0.86	92.4	129	64.5	NA	109	2200	10,000
Cyanide	ND	ND	10.3	ND	ND	ND	ND	NA	27	27	27
PCBs											
PCB-1254	ND	ND	0.0486	ND	ND	ND	ND	NA	0.1	1	1
PCB-1260	ND	ND	ND	ND	ND	ND	ND	NA	0.1	1	1
PESTICIDES											
4,4-DDT	ND	ND	**0.007 J**	ND	**0.004**	**0.004**	ND	NA	0.0033	1.7	7.9
4,4-DDD	ND	ND	ND	ND	ND	ND	ND	NA	0.0033	2.6	13
4,4-DDE	0.003	ND	0.002	ND	ND	ND	ND	NA	0.0033	1.8	8.9
delta-BHC	ND	ND	ND	ND	ND	ND	ND	NA	0.04	100	100
Endosulfan II	ND	ND	0.003	ND	ND	ND	ND	NA	2.4	4.8	24
Endosulfan Sulfate	ND	ND	ND	0.002	0.003	0.004	ND	NA	2.4	4.8	24
Lindane	0.005	ND	ND	ND	0.005	ND	ND	NA	0.1	0.28	1.3
Endrin	ND	ND	ND	ND	ND	ND	ND	NA	0.014	2.2	11
SEMIVOLATILE ORGANIC COMPOUNDS											
Acenaphthene	1.92	ND	ND	ND	ND	ND	ND	NA	20	100	100
Acenapthylene	ND	ND	ND	ND	0.23 J	0.5 J	ND	NA	100	100	100
Anthracene	8.25	0.72	0.55	ND	0.31 J	0.96 J	ND	NA	100	100	100
Benz(a)anthracene	**27.9**	**3.34**	**2.67**	**2.46**	0.71 J	**1.95 J**	ND	NA	1	1	1
Benzo(a)pyrene	**23.3**	**2.84**	**2.42**	**2.48**	0.94 J	**1.6 J**	ND	NA	1	1	1
Benzo(b)fluoranthene	**25.7**	**2.94**	**2.59**	**3.26**	0.87 J	**1.63 J**	ND	NA	1	1	1
Benzo(g,h,i)perylene	13.4	1.98	1.61	ND	0.73 J	1.05 J	ND	NA	100	100	100
Benzo(k)fluoranthene	**13.4**	1.83	1.48	ND	0.7 J	1.28 J	ND	NA	0.8	1	3.9
Chrysene	**23.3**	2.7	2.22	2.67	0.77 J	1.78 J	ND	NA	1	1	3.9
Dibenz(a,h)anthracene	**4.6**	**0.61**	**0.43**	ND	0.22 J	**0.36 J**	ND	NA	0.33	0.33	0.33
Fluoranthene	58.4	7.17	5.56	5.53	1.4 J	4.55 J	ND	NA	100	100	100
Fluorene	2.2	ND	ND	ND	ND	0.27 J	ND	NA	30	100	100
Indeno(1,2,3-cd)pyrene	**16.7**	**2.64**	**2.14**	ND	0.59 J	**0.9 J**	ND	NA	0.5	0.5	0.5
Naphthalene	ND	ND	ND	ND	ND	ND	ND	NA	12	100	100
Phenanthrene	29.6	3.24	2.39	2.57	0.65 J	2.94 J	ND	NA	100	100	100
Pyrene	41.5	4.81	3.75 J	4	1.1 J	3.12 J	ND	NA	100	100	100
VOLATILE ORGANIC COMPOUNDS											
Acetone	0.015	ND	ND	0.022	ND	ND	ND	ND	0.05	100	100
Toluene	ND	ND	ND	ND	ND	ND	ND	ND	0.7	100	100
Ethylbenzene	ND	ND	0.58 J	ND	ND	ND	ND	ND	1	30	41
m,p-Xylene	0.003	ND	0.11 J	ND	ND	ND	ND	ND	0.26	100	100
Methylene chloride	ND	ND	ND	ND	ND	ND	ND	ND	0.05	51	100
cis-1,2-Dichloroethene	ND	ND	ND	0.004	ND	ND	ND	ND	0.25	59	100
Trichloroethene	ND	ND	ND	0.014	ND	ND	0.038	**36.1**	0.47	10	21
trans-1,2-Dichloroethene	0.005	ND	ND	0.01	0.003	0.003	ND	ND	0.19	100	100
1,2,4-Trimethylbenzene	0.003	ND	0.13 J	ND	ND	ND	ND	ND	3.6	47	52
1,3,5- Trimethylbenzene	ND	ND	ND	ND	ND	ND	ND	ND	8.4	47	52

ND - Non-Detect NA - Not Applicable

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

>/= to Residential/Restricted-Residential SCO and Unrestricted Use SCO All values in ppm

>Unrestricted Use SCO but <Residential/Restricted-Residential SCO.

Data Validation is Complete

>Unrestricted Use & Residential SCO but <Restricted-Residential SCO

TABLE 2
57-71 TONAWANDA STREET - RI SURFACE SOIL SAMPLE ANALYTICAL RESULTS SUMMARY

Contaminants	SS-01 (1) (0-0.5')	SS-02 (1) (0-0.5')	SS-03 (1) (0-0.5')	SS-04 (1) (0 -0.5')	SS-05 (1) (0-0.5')	PART 375 Soil Cleanup Objectives		
						Unrestricted Use	Residential	Restricted Residential
	12/18/2019	12/18/2019	12/18/2019	12/19/2019	12/19/2019			
METALS								
Arsenic	10	2.61	5.02	6.21	5.81	13	16	16
Barium	140	33.5	157	69	112	350	350	400
Beryllium	0.647	ND	ND	0.463	0.758	7.2	14	72
Cadmium	1.99	0.83	**5.26**	1.76	2.22	2.5	2.5	4.3
Chromium	22.5	16.1	68.3	32.6	22.9	30	36	180
Copper	73.3	41.4	243	**343**	105	50	270	270
Lead	353	50.5	**442**	244	350	63	400	400
Manganese	337	551	808	464	786	1600	2,000	2,000
Total Mercury	0.206	0.0222	0.104	0.178	0.142	0.18	0.81	0.81
Nickel	22.7	15.5	61.9	17.2	23.9	30	140	310
Selenium	0.727	ND	6.1	0.683	0.984	3.9	36	180
Silver	0.472	0.387	2.27	0.798	1.4	2	36	180
Zinc	322	469	1100	473	342	109	2200	10,000
Cyanide	ND	ND	0.952	ND	ND	27	27	27
PCBs								
PCB-1254	ND	ND	ND	ND	ND	0.1	1	1
PCB-1260	ND	ND	ND	ND	0.0381 J	0.1	1	1
PESTICIDES								
4,4-DDT	**0.007**	0.003	ND	**0.004**	**0.008 J**	0.0033	1.7	7.9
4,4-DDD	0.002	0.002	ND	**0.007**	0.003 J	0.0033	2.6	13
4,4-DDE	**0.005**	ND	ND	ND	**0.006 J**	0.0033	1.8	8.9
Dieldrin	0.002	ND	ND	ND	ND	0.005	0.039	0.2
delta-BHC	ND	0.002	ND	**0.004**	ND	0.04	100	100
Endosulfan II	ND	ND	ND	ND	ND	2.4	4.8	24
Endosulfan Sulfate	ND	0.005	0.006	0.012	ND	2.4	4.8	24
Lindane	0.002	0.002	0.009	0.002	0.003	0.1	0.28	1.3
Endrin	ND	ND	ND	0.003	ND	0.014	2.2	11
SEMIVOLATILE ORGANIC COMPOUNDS								
Acenaphthene	ND	ND	ND	ND	ND	20	100	100
Acenapthylene	ND	ND	ND	ND	0.27	100	100	100
Anthracene	ND	1.27	2.07	1.74	1.87	100	100	100
Benz(a)anthracene	0.33	**6.71 J**	**14.8 J**	**9.56**	**1.79**	1	1	1
Benzo(a)pyrene	0.31	**8.35 J**	**16.8 J**	**10.9**	**1.69**	1	1	1
Benzo(b)fluoranthene	0.37	**9.97 J**	**21.3 J**	**12.5**	**1.75**	1	1	1
Benzo(g,h,i)perylene	ND	6.52 J	13.6 J	9.22	1.06	100	100	100
Benzo(k)fluoranthene	ND	**4.24 J**	**11.3 J**	**7.49**	0.997	0.8	1	3.9
Chrysene	0.32	**7.31 J**	**17.6 J**	**10.4**	1.6	1	1	3.9
Dibenz(a,h)anthracene	ND	**1.99 J**	**4.32 J**	**2.61**	**0.36**	0.33	0.33	0.33
Fluoranthene	0.63	15.6 J	36.3 J	21.2	3.51	100	100	100
Fluorene	ND	ND	ND	ND	ND	30	100	100
Indeno(1,2,3-cd)pyrene	ND	**7.98 J**	**14.3 J**	**11.3**	**1.45**	0.5	0.5	0.5
Naphthalene	ND	ND	ND	ND	0.3	12	100	100
Phenanthrene	0.32	6.35 J	11.9 J	7.7	1.94	100	100	100
Pyrene	0.39	10.7 J	0.78 J	14.7	2.4	100	100	100

ND - Non-Detect NA - Not Applicable All data in ppm Data Validation is complete

>/= to Residential/Restricted-Residential SCO and Unrestricted Use SC(All values in ppm

>Unrestricted Use SCO but <Residential/Restricted-Residential SCO.

>Unrestricted Use & Residential SCO but <Restricted-Residential SCO

(1) SS-01 - Surface soil sample collected with shovel

TABLE 5

57-71 TONAWANDA STREET - RI GROUNDWATER SAMPLE ANALYTICAL RESULTS SUMMARY

Contaminants	MW-1	MW-2	MW-3	MW-4	MW-5	NYSDEC TOGS 1.1.1. GA
Sample Date	1/22/2020	1/22/2020	1/22/2020	1/23/2020	1/23/2020	
DISSOLVED METALS						
Arsenic	ND	ND	ND	24.3	12.6	25
Barium	66.5	144	175	ND	ND	1000
Beryllium	ND	ND	ND	ND	ND	3
Chromium	ND	ND	ND	ND	ND	50
Copper	ND	ND	ND	ND	ND	200
Cyanide	ND	ND	ND	ND	ND	200
Lead	7	ND	**42.7**	ND	ND	25
Manganese	31.6	**694**	**2690**	**321**	**365**	300
Nickel	ND	ND	ND	ND	ND	100
Total Mercury	ND	ND	ND	ND	0.14	0.7
Zinc	256	ND	ND	ND	ND	2000
Selenium	ND	**15.4**	**18.3**	**16.3**	ND	10
PCBs						
PCBs	ND	ND	ND	ND	ND	NA
PESTICIDES						
Dieldrin	ND	ND	ND	ND	ND	0.004
Heptachlor	ND	ND	ND	ND	ND	0.04
Heptachlor Epoxide	ND	ND	ND	ND	ND	0.03
SEMIVOLATILE ORGANIC COMPOUNDS						
SVOCs	ND	ND	ND	ND	ND	NA
Volatile Organic Compounds						
Acetone	17.4	**408**	**157**	**409**	9.73	50
1,1,1-Trichloroethane	1	**14.7**	ND	ND	ND	5
1,1-Dichloroethane	ND	**57**	ND	ND	ND	5
1,1-Dichloroethene	ND	ND	ND	ND	ND	5
cis-1,2-Dichloroethene	2.58	**55.4**	ND	ND	ND	5
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	5
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	5
1,4-Dioxane	0.149	**52.1**	**1.36**	0.473	ND	1
Trichloroethene	**13**	**22.5**	1.27	**7370**	1.28	5
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	5
Vinyl chloride	ND	**35.3**	ND	ND	ND	2
Well Development Field Parameters						
Turbidity (NTU)	11.0	19.5	13.2	27.5	ND	NA
pH	7.53	7.28	6.75	7.16	ND	NA
Dissolved Oxygen	6.31	7.25	1.45	4.33	ND	NA
Temp (degrees C)	6.01	8.29	8.53	9.36	ND	NA
Conductivity	1.08	0.92	2.23	5.84	ND	NA

All values in ppb

"J" = Result estimated between the quantitation limit and half the quantitation limit.

L = Laboratory Control Sample recovery outside accepted QC limits.

N/A - Not Applicable ND - Non-detect

(1) - TOGs 1.1.1 GA - Technical and Operational Guidance Series (1.1.1) Source of Drinking Water (Groundwater)

Exceeds TOGs Guidance Value

TABLE 9
57-71 TONAWANDA BUILDING - SUB SLAB VAPOR ANALYTICAL RESULTS SUMMARY
EPA Air Method Toxic Organics -15 (TO-15)

Contaminants	Sample Identification						NYSDOH (1)
	SSV-01	SSV-02	SSV-03	SSV-04	SSV-05	SSV-06	Sub Slab Vapor Concentration
	Sub Slab	Sub Slab	Sub Slab	Sub Slab	Sub Slab	Sub Slab	Decision Matrix - Min Action Level
	3/5/2020	3/5/2020	3/5/2020	3/5/2020	3/5/2020	3/5/2020	ug/m3
Volatile Organic Compounds (2)							
1,1,1-Trichloroethane	ND	ND	0.65	25	ND	15	**100**
1,1,2-Trichloroethane	ND	ND	0.93	ND	ND	ND	
1,1-Dichloroethane	ND	ND	ND	1.3	ND	ND	**6**
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	ND	
2,2,4-trimethylpentane	ND	ND	ND	ND	ND	ND	
1,2-Dichloropropane	ND	ND	ND	7.2	ND	ND	
1,3-butadiene	ND	ND	ND	7.1	ND	ND	
1,4-Dioxane	ND	ND	ND	ND	ND	2.7	
4-ethyltoluene	ND	ND	ND	ND	ND	ND	
Acetone	8.8	31	15	31	17	110	
Benzene	0.8	5.8	1.8	2.6	26	2.10	
Carbon disulfide	ND	2.1	1.3	0.3	1.7	17	
Carbon tetrachloride	ND	2.8	ND	ND	ND	ND	**6**
Chloroethane	ND	ND	ND	ND	ND	ND	
Chloroform	ND	ND	8.0	3.7	14	ND	
Chloromethane	ND	ND	ND	ND	ND	ND	
cis-1,2-Dichloroethene	ND	ND	4.0	38	ND	1.0	**6**
Cyclohexane	1.5	17	8.3	10	ND	14	
Ethyl acetate	ND	1.7	ND	0.54	ND	ND	
Ethylbenzene	ND	ND	ND	ND	ND	ND	
Freon 11	1.3	1.1	1.2	1.1	1.1	1.2	
Freon 12	2.6	2.6	2.5	2.4	2.3	2.5	
Heptane	ND	16	23	ND	420	11	
Hexane	2.5	19	41	12	720	13	
Isopropyl alcohol	5.1 J	5.9 J	ND	2.6 J	ND	8.4 J	
m&p-Xylene	ND	0.74	0.43	0.61	2.4	0.5	
Methyl Ethyl Ketone	0.65	2.7	2.4	3.0	ND	6	
Methylene chloride	0.9	4.7	3.2	3	3.5	4.6	**100**
Propylene	ND	ND	ND	6.7	ND	ND	
o-Xylene	ND	ND	ND	ND	ND	ND	
Styrene	ND	ND	ND	ND	ND	ND	
Tetrachloroethylene	ND	ND	ND	1.2	1.8	0.68	**100**
Toluene	1.4	7.5	2.9	5	18	3.4	
trans-1,2-Dichloroethene	ND	ND	ND	4	ND	0.9	
Trichloroethene (TCE)	5.7	5.2	**7400** (3)	**4700** (3)	**19000** (3)	**93** (3)	**6**
Vinyl chloride	ND	ND	ND	ND	ND	ND	**6**

N/A - Not Applicable ND - Non-detect Data Validation has been completed

(1) New York State Department of Health (NYSDOH), Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006 and subsequent updates (select matrix coumpounds).

(2) Compounds with detected concentrations in ug/m3

(3) - The values noted for TCE in the sub slab vapor samples would automaticlly require mitigation (DOH Matrices) no mater what indoor air values are receievd once building inclosed. See Soil Vapor/Indoor Air Matrix A (May 2017) NYSDOH Guidance titled "Evaluating Soil Vapor Intrusion in the State of New York", October 2006 (and subsequent updates)

TABLE 10
57-71 TONAWANDA STREET - RI BUILDING SUB-SLAB SOIL SAMPLE ANALYTICAL RESULTS SUMMARY

Contaminants	Sample Identification						PART 375 Soil Cleanup Objectives		
	SSB-1 Sub-Slab (0-4') 3/18/2020	SSB-2 Sub-Slab (6 -8') 3/18/2020	SSB-2 Sub-Slab (9-16') 3/18/2020	SSB-3 Sub-Slab (10 -11') 3/19/2020	SSB-4 Sub-Slab (10-12') 3/19/2020	SSB-5 Sub-Slab (6-7') 3/19/2020	Unrestricted Use	Residential	Restricted Residential
METALS									
Arsenic	**17.3**	NA	NA	NA	NA	NA	13	16	16
Barium	132	NA	NA	NA	NA	NA	350	350	400
Beryllium	ND	NA	NA	NA	NA	NA	7.2	14	72
Cadmium	**2.52**	NA	NA	NA	NA	NA	2.5	2.5	4.3
Chromium	20.7	NA	NA	NA	NA	NA	30	36	180
Copper	**3390**	NA	NA	NA	NA	NA	50	270	270
Lead	**2240**	NA	NA	NA	NA	NA	63	400	400
Manganese	518	NA	NA	NA	NA	NA	1600	2,000	2,000
Total Mercury	**0.34**	NA	NA	NA	NA	NA	0.18	0.81	0.81
Nickel	**36.7**	NA	NA	NA	NA	NA	30	140	310
Selenium	2.98	NA	NA	NA	NA	NA	3.9	36	180
Zinc	**4940**	NA	NA	NA	NA	NA	109	2200	10,000
Cyanide	NA	NA	NA	NA	NA	NA	27	27	27
PCBs									
PCB-1254	ND	NA	NA	NA	NA	NA	0.1	1	1
PCB-1260	ND	NA	NA	NA	NA	NA	0.1	1	1
PESTICIDES									
4,4-DDT	ND	NA	NA	NA	NA	NA	0.0033	1.7	7.9
4,4-DDE	ND	NA	NA	NA	NA	NA	0.0033	1.8	8.9
Endosulfan Sulfate	0.002	NA	NA	NA	NA	NA	2.4	4.8	24
Endrin	ND	NA	NA	NA	NA	NA	0.014	2.2	11
SEMIVOLATILE ORGANIC COMPOUNDS									
Acenaphthene	ND	NA	NA	NA	NA	NA	20	100	100
Acenapthylene	ND	NA	NA	NA	NA	NA	100	100	100
Anthracene	0.27	NA	NA	NA	NA	NA	100	100	100
Benz(a)anthracene	0.83	NA	NA	NA	NA	NA	1	1	1
Benzo(a)pyrene	0.79	NA	NA	NA	NA	NA	1	1	1
Benzo(b)fluoranthene	0.73	NA	NA	NA	NA	NA	1	1	1
Benzo(g,h,i)perylene	0.59	NA	NA	NA	NA	NA	100	100	100
Benzo(k)fluoranthene	0.65	NA	NA	NA	NA	NA	0.8	1	3.9
Chrysene	0.95	NA	NA	NA	NA	NA	1	1	3.9
Dibenz(a,h)anthracene	ND	NA	NA	NA	NA	NA	0.33	0.33	0.33
Fluoranthene	1.9	NA	NA	NA	NA	NA	100	100	100
Fluorene	ND	NA	NA	NA	NA	NA	30	100	100
Indeno(1,2,3-cd)pyrene	0.48	NA	NA	NA	NA	NA	0.5	0.5	0.5
Naphthalene	0.25	NA	NA	NA	NA	NA	12	100	100
Phenanthrene	1.7	NA	NA	NA	NA	NA	100	100	100
Pyrene	1.7	NA	NA	NA	NA	NA	100	100	100
VOLATILE ORGANIC COMPOUNDS									
Acetone	ND	ND	ND	ND	ND	ND	0.05	100	100
Toluene	ND	ND	ND	ND	ND	ND	0.7	100	100
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.044	0.25	59	100
Ethylbenzene	ND	ND	ND	ND	ND	ND	1	30	41
m,p-Xylene	ND	ND	ND	ND	ND	ND	0.26	100	100
Methylene chloride	ND	ND	ND	ND	ND	ND	0.05	51	100
Trichloroethene	**1.7**	**0.8**	**4.57**	**4.85**	**1980**	**0.63**	0.47	10	21
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	ND	3.6	47	52
1,3,5- Trimethylbenzene	ND	ND	ND	ND	ND	ND	8.4	47	52

ND - Non-Detect NA - Not Applicable J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

>/= to Residential/Restricted-Residential SCO and Unrestricted Use SCO

>Unrestricted Use SCO but <Residential/Restricted-Residential SCO.

>Unrestricted Use & Residential SCO but <Restricted-Residential SCO

68 TONAWANDA STREET
SITE NO. C915316

2018 BE3
REMEDIAL INVESTIGATION REPORT

TABLE 1
68 TONAWANDA STREET - PHASE 2 ESA SOIL SAMPLE ANALYTICAL RESULTS SUMMARY

Sampling Program	PEI - Phase 2 ESA SOIL BORING SAMPLING PROGRAM												
Sample Number	BH 3	BH 4	BH 9	BH 1A	BH 2A	BH 4A	BH 5A	BH 6A	BH 8A	BH 9A	NYSDEC	NYSDEC	NYSDEC
Sample Date	3/5/2014	3/5/2014	3/5/2014	1/26/2017	1/26/2017	1/26/2017	1/26/2017	1/26/2017	1/26/2017	1/26/2017	PART 375	PART 375	PART 375
Sample depth (bgs)	0' - 2'	5' - 6'	3' - 4'	1' - 4'	1' - 3'	1' - 6'	1' - 6'	0' - 3'	0' - 4'	6' - 8'	Unrestricted	Residential	Restrict Res
Compounds	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm			
Metals													
Mercury	0.2	0.03	0.3	0.09	0.31	0.14	0.38	0.052	ND	0.207	0.18	0.81	1
Arsenic	6.70	3.7	13.8	4.83	10.3	6.93	25.7	14.7	1.27	9.89	13	16	16
Barium	78.3	85	58.9	42.3	138	48.2	94.4	528	ND	82.4	350	350	400
Beryllium	ND	ND	ND	0.26	0.57	NA	0.67	ND	ND	1.55	7.2	14	72
Cadmium	ND	ND	ND	0.627	1.14	1.23	6	11.7	0.356	1.07	2.5	2.5	4.3
Chromium	85.7	13.4	17.6	7.57	14.8	17.1	15.1	191	161	12	30	36	180
Copper	1960.0	690	829	40.2	67.4	35.5	139	455	161	224	50	270	270
Lead (Axial)	221.0	65.7	88.6	80.8	428	183	189	355	4.93	117	63	400	400
Manganese	448	140	285	110	261	430	318	2090	297	371	1600	2000	2000
Nickel	45.9	16	14.4	8.31	15.2	9.64	27.6	153	71.7	9.02	30	140	310
Selenium	ND	ND	ND	2.5	3.96	5.75	6.59	26.8	ND	3.75	3.9	36	180
Silver	ND	ND	ND	0.66	1.1	ND	3.22	ND	ND	ND	2	36	180
Zinc	228	296	149	96	165	193	1450	3960	112	118	109	2200	10000
Total Cyanide	NA	NA	NA	ND	ND	0.548	ND	ND	ND	ND	27	27	27
PCBS													
PCB-1248	0.3	ND	ND	0.1	ND	ND	0.566	ND	ND	ND	0.1	1	1
PCB-1260	0.3	ND	ND	0.1	ND	5.52	ND	0.698	ND	ND	0.1	1	1
Pesticides													
4,4-DDT	ND	ND	ND	0.016	ND	0.48	0.045	0.049	ND	ND	0.0033	1.7	7.9
Aldrin	ND	ND	ND	0.005	ND	ND	0.004	ND	ND	ND	0.005	0.019	0.097
alpha-BHC	ND	ND	ND	0.003	ND	ND	ND	ND	ND	ND	0.02	0.097	0.48
beta BHC	ND	ND	ND	ND	ND	ND	ND	0.008	ND	ND	0.036	0.072	0.36
delta BHC	ND	ND	ND	0.004	ND	ND	ND	0.029	ND	ND	0.04	100	100
Endosulfan I	ND	ND	ND	0.004	ND	ND	ND	ND	ND	ND	2.4	4.8	24
Endosulfan II	ND	ND	ND	ND	ND	0.033	0.014	0.014	ND	ND	2.4	4.8	24
Endosulfan Sulfate	ND	ND	ND	0.019	ND	0.086	0.049	0.05	ND	0.007	2.4	4.8	24
Lindane	ND	ND	ND	0.014	ND	ND	ND	0.007	ND	0.01	0.1	0.28	1.3
Dieldrin	ND	ND	ND	0.007	ND	0.037	0.009	0.01	ND	0.004	0.005	0.039	0.2
Endrin	ND	ND	ND	0.009	ND	0.4	0.036	0.005	ND	ND	0.014	2.2	11
VOCs													
Acetone	ND	ND	ND	0.9	1.19	0.114	ND	ND	ND	ND	0.05	100	100
Naphthalene	ND	ND	ND	0.02	0.96	0.092	ND	ND	ND	ND	12	100	100
m, p Xylene	ND	ND	ND	ND	ND	0.00766	ND	ND	ND	ND	0.26	100	100
n-Butylbenzene	ND	0.5	ND	ND	ND	ND	ND	ND	ND	0.398	12	NA	ND
n-propylbenzene	ND	0.2	ND	ND	ND	ND	ND	ND	ND	0.14	3.9	100	100
Toluene	ND	ND	ND	ND	ND	0.0108	ND	ND	ND	ND	0.7	100	100
Sec-Butylbenzene	ND	0.2	ND	ND	ND	ND	ND	ND	ND	0.19	11	100	100
1,2,4 Trimethylbenzene	ND	1.7	ND	ND	ND	ND	ND	ND	ND	0.428	3.6	47	52
1,3,5 Trimethylbenzene	ND	ND	0.4	ND	ND	ND	ND	ND	ND	ND	8.4	47	52
TICs (Total)	0.03	66.9	128.4	ND	ND	ND	ND	ND	ND	35.9	NA	N/A	N/A
SVOCs													
Anthracene	ND	ND	ND	5.3	2.00	ND	ND	ND	ND	ND	100	100	100
Benzo(a)anthracene	1.3	ND	ND	16.2	ND	ND	1.13	0.371	ND	0.419	1	1	1
Benzo(a)pyrene	1.4	ND	ND	18.9	ND	ND	0.782	0.317	ND	0.368	1	1	1
Benzo(b)fluoranthene	1.1	ND	ND	19.9	ND	ND	0.885	0.399	ND	0.417	1	1	1
Benzo(g,h,I)perylene	1	ND	ND	13.5	ND	ND	0.544	0.403	ND	ND	100	100	100
Benzo(k)fluoranthene	1.1	ND	ND	9.9	ND	ND	0.555	ND	ND	ND	0.8	1	3.9
Chrysene	1.4	ND	ND	17.5	ND	ND	1.07	0.385	ND	0.42	1	1	3.9
Fluoranthene	2.8	ND	ND	47.4	3.34	ND	2.49	0.711	ND	0.752	100	100	100
Fluorene	ND	ND	ND	ND	2.1	ND	ND	ND	ND	ND	30	100	100
Indeno(1,2,3-cd)pyrene	1.1	ND	ND	ND	ND	ND	0.554	0.402	ND	ND	0.5	0.5	0.5
Phenanthrene	1.9	4.4	ND	23.2	5.00	ND	1.2	ND	ND	0.792	100	100	100
Pyrene	2.4	ND	ND	38.4	2.5	ND	1.71	0.483	ND	0.641	100	100	100
TICs (Total)	17.9	167.5	515	ND	ND	ND	ND	ND	ND	ND	NA	N/A	N/A

ND - Non-Detect NA - Not Applicable

TICs - Tentitively Identified Compounds

>/= to Residential/Restricted-Residential SCO and Unrestricted Use SCO

>Unrestricted Use SCO but <Residential/Restricted-Residential SCO

>Unrestricted Use & Residential SCO but <Restricted-Residential SCO

TABLE 3

68 TONAWANDA STREET - RI SOIL BORING SAMPLE ANALYTICAL RESULTS SUMMARY

Contaminants	Sample Identification								Date Sampled: 2/7/18		PART 375 Soil Cleanup Objectives		
	RI BH-1 (4-6') Fill	RI BH-1 (8-12') Native	RI BH-2 (0-4') Fill	RI BH-3 (1-4') Fill	RI BH-4 (2-5') Fill	RI BH-4 (6-8') Native	RI BH-4D (2-5') Fill	RI BH-5 (1-4') Fill	RI BH-6 (1-4') Fill	RI BH-7 (2-6') Fill	Unrestricted Use	Residential	Restricted Residential
METALS													
Arsenic	ND	3.47	ND	10.9	48.4	4.39	34.5	1.81	27.7	31.9	13	16	16
Barium	43.2	80	27.1	75	166	135	177	75.7	53.5	158	350	350	400
Beryllium	0.388	0.499	0.214	0.676	0.743	0.842	0.782	0.563	0.546	0.434	7.2	14	72
Cadmium	0.441	0.217	0.144	0.201	4.37 J	0.154	2.49 J	0.371	1.17	2.03	2.5	2.5	4.3
Chromium	15.2	15.7	6.27	8.74	23.5 J	24.5	39.3 J	13.7	11.4	16.2	30	36	180
Copper	14	12.4	1.99	120	161	17.6	133	16.7	131	1540	50	270	270
Lead	40.6	14.2	25.1	259	1030 J	9.06	1470 J	47.9	95.4	307	63	400	400
Manganese	329	527	232	127	502 J	452	780 J	382	312	441	1600	2,000	2,000
Total Mercury	0.019	0.011	0.019	0.264	ND	0.016	ND	0.091	0.083	0.255	0.18	0.81	0.81
Nickel	9.94	17.5	5.05	16.2	24.7	26.3	27.3	11.8	39.5	21.4	30	140	310
Selenium	ND	ND	ND	1.51	ND	ND	ND	ND	2.77	ND	3.9	36	180
Silver	0.481	0.447	0.356	0.651	1.37 J	0.729	J	0.614	2.93	1.24	2	36	180
Zinc	57.1	48.3	38.4	97.4	866	62.9	789	98	462	783	109	2200	10,000
PCBs													
PCB-1254	0.057 J	ND	NA	NA	ND	ND	ND	NA	NA	NA	0.1	1	1
PCB-1260	ND	ND	NA	NA	0.046 J	ND	0.0513 J	NA	NA	NA	0.1	1	1
SEMIVOLATILE ORGANIC COMPOUNDS													
Acenaphthene	ND	ND	NA	NA	ND	ND	1.07 J	NA	NA	NA	20	100	100
Acenapthylene	ND	ND	NA	NA	1.03	ND	1.12 J	NA	NA	NA	100	100	100
Anthracene	ND	ND	NA	NA	1.55	ND	3.43	NA	NA	NA	100	100	100
Benz(a)anthracene	ND	ND	NA	NA	4.29	ND	9.48	NA	NA	NA	1	1	1
Benzo(a)pyrene	ND	ND	NA	NA	3.9	ND	8.24	NA	NA	NA	1	1	1
Benzo(b)fluoranthene	ND	ND	NA	NA	4.24	ND	7.87	NA	NA	NA	1	1	1
Benzo(g,h,i)perylene	ND	ND	NA	NA	2.71	ND	5.6	NA	NA	NA	100	100	100
Benzo(k)fluoranthene	ND	ND	NA	NA	2.99	ND	6.34	NA	NA	NA	0.8	1	3.9
Chrysene	ND	ND	NA	NA	4.46	ND	9.37	NA	NA	NA	1	1	3.9
Dibenz(a,h)anthracene	ND	ND	NA	NA	0.833 J	ND	1.81	NA	NA	NA	0.33	0.33	0.33
Fluoranthene	0.842	ND	NA	NA	8.69	ND	21.5	NA	NA	NA	100	100	100
Fluorene	ND	ND	NA	NA	ND	ND	1.29 J	NA	NA	NA	30	100	100
Indeno(1,2,3-cd)pyrene	ND	ND	NA	NA	3.01	ND	6.14	NA	NA	NA	0.5	0.5	0.5
Phenanthrene	ND	ND	NA	NA	5.74	ND	17	NA	NA	NA	100	100	100
Pyrene	ND	ND	NA	NA	7.56	ND	17.7	NA	NA	NA	100	100	100
TICs	26.5 J	1.38 J	NA	NA	21.1 J	4.16 J	46.2 J	NA	NA	NA	NA	NA	NA
Volatile Organic Compounds													
Acetone	NA	0.504	NA	NA	NA	NA	NA	NA	NA	NA	0.05	100	100
Toluene	NA	0.00456	NA	NA	NA	NA	NA	NA	NA	NA	0.7	100	100
1,2,4-Trimethylbenzene	NA	0.00448	NA	NA	NA	NA	NA	NA	NA	NA	3.6	47	52
1,3,5- Trimethylbenzene	NA	0.00564	NA	NA	NA	NA	NA	NA	NA	NA	8.4	47	52
TICs	NA	5.03 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

ND - Non-Detect NA - Not Applicable All Data is Validated J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

>/= to Residential/Restricted-Residential SCO and Unrestricted Use SCO

>Unrestricted Use SCO but <Residential/Restricted-Residential SCO

>Unrestricted Use & Residential SCO but <Restricted-Residential SCO

TABLE 3
68 TONAWANDA STREET - RI SOIL BORING SAMPLE ANALYTICAL RESULTS SUMMARY

Contaminants	Sample Identification						Date Sampled: 2/7/18		PART 375 Soil Cleanup Objectives		
	RI BH-8 (2-4') Fill	RI BH-9 (1-4') Fill	RI BH-10 (3-4') Fill	RI BH-11 (2-4') Fill	RI BH-12 (2-4') Fill	RI BH-12 (4.5') Fill	RI BH-13 (3-4.5') Fill	RI BH-14 (2-4') Fill	Unrestricted Use	Residential	Restricted Residential
METALS											
Arsenic	4.46	4.13	2.74	8.39	31.7	NA	8.08	6.28	13	16	16
Barium	65.4	34	29.7	111	130	NA	88.6	101	350	350	400
Beryllium	0.519	0.307	0.192	1.61	0.758	NA	0.436	0.476	7.2	14	72
Cadmium	0.236	0.276	0.34	1.1	1.48	NA	0.905	0.44	2.5	2.5	4.3
Chromium	13.2	7.11	7.73	17.7	21.6	NA	16.9	15.8	30	36	180
Copper	16.4	60.8	37.1	241	83.5	NA	44.2	77.4	50	270	270
Lead	37.8	66.3	47.7	107	207	NA	134	129	63	400	400
Manganese	410	409	204	954	498	NA	404	396	1600	2,000	2,000
Total Mercury	0.123	0.109	0.093	3	0.799	NA	0.415	0.098	0.18	0.81	0.81
Nickel	12.7	8.23	7.1	18.1	19.6	NA	14.2	13.3	30	140	310
Selenium	ND	ND	ND	ND	0.864	NA	ND	ND	3.9	36	180
Silver	0.538	0.481	0.378	0.82	0.704	NA	0.811	0.611	2	36	180
Zinc	70	54.4	72.3	243	345	NA	161	155	109	2200	10,000
PCBs											
PCB-1254	ND	NA	NA	NA	NA	NA	NA	NA	0.1	1	1
PCB-1260	0.698	NA	NA	NA	NA	NA	NA	NA	0.1	1	1
SEMIVOLATILE ORGANIC COMPOUNDS											
Benz(a)anthracene	0.21	NA	NA	NA	NA	NA	NA	NA	1	1	1
Chrysene	0.206	NA	NA	NA	NA	NA	NA	NA	1	1	3.9
Fluoranthene	0.317	NA	NA	NA	NA	NA	NA	NA	100	100	100
Phenanthrene	0.192	NA	NA	NA	NA	NA	NA	NA	100	100	100
Pyrene	0.271	NA	NA	NA	NA	NA	NA	NA	100	100	100
TICs	9.2 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Volatile Organic Compounds											
TICs	NA	NA	NA	NA	NA	1.96 J	NA	NA	NA	NA	NA

ND - Non-Detect NA - Not Applicable All Data is Validated J - The analyte was positively identified; value is the approximate concentration of the analyte in the sample.

>/= to Residential/Restricted-Residential SCO and Unrestricted Use SCO

>Unrestricted Use SCO but <Residential/Restricted-Residential SCO

>Unrestricted Use & Residential SCO but <Restricted-Residential SCO

TABLE 4
68 TONAWANDA STREET - RI TEST PIT SOIL SAMPLE ANALYTICAL RESULTS SUMMARY

Contaminants	Sample Identification						Date Sampled: 2/13/18			PART 375 Soil Cleanup Objectives		
	TP-4 (4-5') Fill	TP-4D (4-5') Fill	TP-5 (1-4') Fill	TP-5 (4-5') Fill	TP-6 (4-5') Fill	TP-1 (2-4') Fill	TP-2 (2-4') Fill	TP-2 (6') Native	TP-3 (2-4') Fill	Unrestricted Use	Residential	Restricted Residential
METALS												
Arsenic	7.53 J	3.9 J	10.9	NA	NA	7.93	5.35	1.39	2.77	13	16	16
Barium	72	75.4	82.9	NA	NA	404	109	112	72.2	350	350	400
Beryllium	0.477	0.52	0.574	NA	NA	0.521	0.75	0.621	0.484	7.2	14	72
Cadmium	1 J	0.708 J	0.737	NA	NA	0.923	0.977	0.387	0.422	2.5	2.5	4.3
Chromium	16 J	12.9 J	8.52	NA	NA	14.6	16.5	20	10.6	30	36	180
Copper	93.9	94.4	1090	NA	NA	82.5	320	13.5	16.5	50	270	270
Lead	178 J	143 J	395	NA	NA	140	106	8.3	92.1	63	400	400
Manganese	356	349	141	NA	NA	338	431	400	268	1600	2,000	2,000
Total Mercury	0.223 J	0.338 J	0.724	NA	NA	0.135	0.281	0.0139	0.107	0.18	0.81	0.81
Nickel	15.9	13.5	11.8	NA	NA	16.6	18.9	21.4	11.5	30	140	310
Silver	1.05	ND	0.97	NA	NA	1.09	ND	0.576	0.733	2	36	180
Zinc	199 J	168 J	395	NA	NA	248	290	54.7	117	109	2200	10,000
PCBs												
PCB-1248	ND	ND	NA	NA	NA	ND	0.17 J	ND	5.6 J	0.1	1	1
PCB-1260	ND	ND	NA	NA	NA	ND	0.0745 J	ND	ND	0.1	1	1
SEMIVOLATILE ORGANIC COMPOUNDS												
Acenaphthene	ND	0.17 J	NA	NA	2.95	NA	0.187	ND	ND	20	100	100
Anthracene	ND	0.308 J	NA	NA	0.508	NA	0.348	ND	ND	100	100	100
Benz(a)anthracene	0.552	1.22	NA	NA	0.414	NA	1.31	ND	0.347	1	1	1
Benzo(a)pyrene	0.499	1.13	NA	NA	0.424	NA	1.18	ND	0.288	1	1	1
Benzo(b)fluoranthene	0	1.01	NA	NA	0.356	NA	1.14	ND	0.336	1	1	1
Benzo(g,h,i)perylene	0.341	0.728	NA	NA	ND	NA	0.805	ND	0.225	100	100	100
Benzo(k)fluoranthene	0.434	0.74	NA	NA	ND	NA	0.934	ND	0.213	0.8	1	3.9
Chrysene	0.547	1.27	NA	NA	0.401	NA	1.27	ND	0.365	1	1	3.9
Dibenz(a,h)anthracene	ND	ND	NA	NA	ND	NA	0.201	ND	ND	0.33	0.33	0.33
Fluoranthene	0.965	2.14	NA	NA	0.638	NA	2.59	ND	0.72	100	100	100
Fluorene	ND	ND	NA	NA	3.85	NA	ND	ND	ND	30	100	100
Indeno(1,2,3-cd)pyrene	0.369	0.88	NA	NA	0.351	NA	0.939	ND	0.236	0.5	0.5	0.5
Phenanthrene	0.459	1.19	NA	NA	10.4	NA	1.23	ND	0.351	100	100	100
Pyrene	0.868 J	2.25 J	NA	NA	0.878	NA	2.14	ND	0.59	100	100	100
TICs	1.4 J	7.26 J	NA	NA	305 J	NA	6.85 J	0.25 J	5.65 J	NA	NA	NA
Volatile Organic Compounds												
Acetone	NA	NA	NA	0.0338	0.0501	NA	NA	NA	NA	0.05	100	100
n-Propylbenzene	NA	NA	NA	ND	0.0182	NA	NA	NA	NA	3.9	100	100
sec-Butylbenzene	NA	NA	NA	ND	0.0408	NA	NA	NA	NA	11	100	100
1,2,4-Trimethylbenzene	NA	NA	NA	ND	0.0364	NA	NA	NA	NA	3.6	47	52
Xylene (mixed)	NA	NA	NA	ND	0.00468	NA	NA	NA	NA	0.26	100	100
TICs	NA	NA	NA	6.54 J	7.37 J	NA	NA	NA	NA	NA	NA	NA

ND - Non-Detect NA - Not Applicable All Data is Validated J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

>/= to Residential/Restricted-Residential SCO and Unrestricted Use SCO

>Unrestricted Use SCO but <Residential/Restricted-Residential SCO

>Unrestricted Use & Residential SCO but <Restricted-Residential SCO

TABLE 5
68 TONAWANDA STREET - RI GW SAMPLE ANALYTICAL RESULTS SUMMARY

Contaminants	Sample Identification (results in ppm)					NYSDEC
	MW-1	MW-2	MW-3	MW-3B (2)	MW-4	TOGS 1.1.1. GA (1)
Sample Date	2/23/18	2/23/2018	2/23/2018	7/6/2018	2/23/2018	
METALS						
Arsenic	8.3	ND	7.9	ND	ND	25
Barium	50.6	106	156	ND	ND	1000
Beryllium	ND	ND	ND	ND	ND	3
Chromium	ND	ND	**447**	18.7	ND	50
Copper	ND	ND	22.8	16.9 J	ND	200
Manganese	**363**	**585**	232	ND	**456**	300
Total Mercury	ND	0.23	ND	ND	ND	0.7
Selenium	**14.1**	ND	**33.3**	ND	ND	10
PCBs						
PCB-1260	ND	ND	**0.24 J**	N/A	ND	0.09
SEMIVOLATILE ORGANIC COMPOUNDS						
2-Methylnapthalene	ND	ND	21.6	N/A	ND	NA
Acenaphthene	ND	ND	15.7	N/A	ND	20
Fluorene	ND	ND	6.21	N/A	ND	50
Naphthalene	ND	ND	**118**	N/A	ND	10
TICs	151 J	79.7 J	437 J	N/A	73 J	NA
Volatile Organic Compounds						
Acetone	25.5 J	34.1 J	**148 B**	N/A	**94.6 B**	50
1,2,4-Trimethylbenzene	ND	ND	2.62	N/A	ND	**5**
Carbon disulfide	ND	1.68	ND	N/A	ND	NA
TICs	ND	16.4 J	43.8 J	N/A	ND	NA
Field Parameters						
Turbidity (NTU)	47.7	6.2	800	721	93.1	NA
pH	7.18	6.4	10.36	10.13	7.22	NA
Dissolved Oxygen	0	15.75	0	0	0.74	NA
Temp (degrees C)	10.64	11.71	9.73	16.04	11.48	NA
Conductivity	1.32	3.65	5.13	5.27	3.37	NA

N/A - Not Applicable ND - Non-detect All Data is Validated

(1) - TOGs 1.1.1 GA - Technical and Operational Guidance Series (1.1.1) Source of Drinking Water (Groundwater)

(2) - Field filtered metals sample

Exceeds TOGs GA Guidance Value

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

B - Derected in Trip Blank

TABLE 7
68 TONAWANDA BUILDING - SUB SLAB VAPOR & AMBIENT AIR ANALYTICAL RESULTS SUMMARY
EPA Air Method Toxic Organics -15 (TO-15)

Contaminants	Sample Identification											NYSDOH (1)	NYSDOH (1)
	SS-01	IA-01	SS-02	IA-01	SS-03	IA-02	SS-04	IA-02	SS-05	IA-02	OA-01	Sub Slab Vapor Concentration	Indoor Air Concentration
	Sub Slab	Indoor	Sub Slab	Indoor	Sub Slab	Indoor	Sub Slab	Indoor	Sub Slab	Indoor	Outdoor	Decision Matrix - Min Action Level	Min Action Level
	2/20/2018	2/20/2018	2/20/2018	2/20/2018	2/20/2018	2/20/2018	2/20/2018	2/20/2018	2/20/2018	2/20/2018	2/20/2018	ug/m3	ug/m3
Volatile Organic Compounds (2)													
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**100**	**3**
1,1-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**6**	**0.2**
1,2,4-Trimethylbenzene	0.88	0.79	1.5	0.79	1.4	8.0	1.0	8.0	1.1	8.0	ND		
1,3,5-Trimethylbenzene	0.64	ND	1.1	ND	0.93	2.20	0.74	2.20	ND	2.20	ND		
2,2,4-trimethylpentane	ND	1.8	7.8	1.8	1.8	1.1	2.9	1.1	ND	1.1	ND		
4-ethyltoluene	ND	ND	0.54	ND	ND	1.90	ND	1.90	ND	1.90	ND		
Acetone	19	24	48	24	30	66	460	66	48	66	6.7		
Benzene	5.2	0.57	8.6	0.57	6.1	1.50	4.1	1.50	69	1.50	0.48		
Carbon disulfide	4.1	ND	5.8	ND	11	ND	170	ND	23	ND	ND		
Carbon tetrachloride	ND	0.31	ND	0.31	ND	0.4	ND	0.4	ND	0.4	0.44	**6**	**0.2**
Chloroethane	1.5	ND	2.3	ND	0.90	ND	1.6	ND	1.0	ND	ND		
Chloroform	ND	ND	3.0	ND	ND	ND	ND	ND	ND	ND	ND		
Chloromethane	ND	0.52	0.81	0.52	0.35	1.0	0.58	1.0	ND	1.0	0.68		
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**6**	**0.2**
Cyclohexane	3900	2.7	180	2.7	24	0.89	21	0.89	2500	0.89	3.80		
Ethyl acetate	2.7	ND	ND	ND	3.9	0.72	ND	0.72	ND	0.72	0.61		
Ethylbenzene	0.82	ND	ND	ND	0.78	4.90	ND	4.90	ND	4.90	ND		
Freon 11	1.8	1.1	2.0	1.1	1.0	1.40	1.5	1.40	110	1.40	1.00		
Freon 12	1.7	1.3	1.7	1.3	1.9	2.70	1.8	2.70	76	2.70	1.50		
Heptane	2000	1.9	100	1.9	35	2.50	230	2.50	1400	2.50	2.70		
Hexane	5100	4.7	92	4.7	46	2.40	170	2.40	1500	2.40	3.00		
Isopropyl alcohol	ND	ND	3.9	ND	ND	ND	ND	ND	ND	ND	ND		
m&p-Xylene	2.6	1.1	2.7	1.1	2.5	20	2	20	8	20	0.61		
Methyl Ethyl Ketone	2.1	1.5	3.8	1.5	5.7	34	16	34	3	34	1.30		
Methylene chloride	21	2.5	19	2.5	21	5.50	23	5.50	2.6	5.50	2.80	**100**	**3**
o-Xylene	ND	0.52	ND	0.52	1.1	8.0	ND	8.0	ND	8.0	ND		
Styrene	ND	ND	ND	ND	0.43	1.20	ND	1.20	ND	1.20	ND		
Tetrachloroethylene	ND	ND	ND	ND	ND	1.40	ND	1.40	5.4	1.40	ND	**100**	**3**
Toluene	42	14	15	14	54	130	58	130	92	130	4.60		
Trichloroethene	2.1	0.21	2.4	0.21	5.8	0.38	2.6	0.38	6.1	0.38	0.32	**6**	**0.2**
Vinyl chloride	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	**6**	**0.2**

N/A - Not Applicable ND - Non-detect
Red values are above Air Guideline Derived by NYSDOH in Table 3.1 of NYSDOH Guidance titled "Evaluating Soil Vapor Intrusion in the State of New York", October 2006 (and subsequent updates).
J indicates an estimated value
(1) New York State Department of Health (NYSDOH), Guidance for Evaluating Soil Vapor Intrusion in the State of New York, October 2006 and subsequent updates (select matrix coumpounds).
(2) Compounds with detected concentrations

NYSDOH Guidance for Evaluating Soil Vapor Intrusion in the State of New York, May 2017 Decision Matrices Notes:

NO FURTHER ACTION:
Given that the compound was not detected in the indoor air sample and that the concentration detected in the sub slab vapor sample is not expected to significantly affect indoor air quality, no additional actions are needed to address human exposures

IDENTIFY SOURCE(S) AND RESAMPLE OR MITIGATE:
The concentration detected in the indoor air sample is likely due to indoor and/or outdoor sources rather than soil vapor int rusion given the concentration detected in the sub slab vapor sample.
Therefore, steps should be taken to identify potential source(s) and to reduce exposures accordingly (e.g., by keeping containers capped or by storing VOC containing products in places where people do not spend much time, such as a garage or shed).
Resampling may be recommended to demonstrate the effectiveness of actions taken to reduce exposures.

MONITOR:
Monitoring, including sub slab vapor, basement air, lowest occupied living space air, and outdoor air sampling, is needed to determine whether concen trations in the indoor air or sub slab vapor have changed.
Monitoring may also be needed to determine whether existing building conditions (e.g., positive pressure heating, ventilation and air conditioning systems) are maintaining the desired mitigation endpoint and to determine whether changes are needed.
The type and frequency of monitoring is determined on a site specific and building specific basis, taking into account applicable environmental data and building operating conditions.
Monitoring is an interim measure required to evaluate exposures related to soil vapor intrusion until contaminated environmental media are remediated.

MITIGATE:
Mitigation is needed to minimize current or potential exposures associated with soil vapor intrusion. The most common mitigation methods are sealing preferential pathways in conjunction with installing a sub slab depressurization system, and changing the pressurization of the building in conjunction with monitoring. The type, or combination of types, of mitigation is determined on a building specific basis, taking into account building construction and operating conditions.
Mitigation is considered a temporary measure implemented to address exposures related to soil vapor in trusion until contaminated environmental media are remediated.

150 TONAWANDA STREET
SITE NO. C915299

2016 PANAMERICAN ENVIRONMENTAL PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

TABLE 1 - 120 (150) TONAWANDA STREET (CSX) - PHASE 2 ESA SOIL SAMPLE ANALTICAL RESULTS SUMMARY								
Sampling Program	**PEI - Phase 2 ESA SOIL TEST PIT SAMPLING PROGRAM**							
Sample Number	**TP1 SS1**	**TP2 S1**	**TP4 SS2**	**TP5 S2**	**TP7 S3**	**TP7 SS3**	**NYSDEC**	**NYSDEC**
Sample Date	**1/4/2016**	**1/4/2016**	**1/4/2016**	**1/4/2016**	**1/4/2016**	**1/4/2016**	**PART 375**	**PART 375**
Sample depth (bgs)	**2-3 Ft**	**2"**	**5-6 Ft**	**2"**	**2"**	**5-6 Ft**	**Restrict Res**	**Commercial**
Compounds	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**ppm**	**(a)**	**(b)**
Metals								
Mercury	0.47	0.48	0.083	0.238	0.553	0.109	1	2.8
Aluminum	7570	9010	7100	6530	9080	5510	NA	NA
Arsenic	**69 (a)(b)**	**18.1 (a)(b)**	**24.9 (a)(b)**	4.7	5.9	**21.1 (a)(b)**	16	16
Barium	132.0	137	76.6	86.7	190	141	400	400
Beryllium	0.60	0.43	0.41	ND	ND	0.51	72	590
Cadmium	2.23	0.99	0.89	0.93	1.16	1.29	4.3	9.3
Chromium	27.7	42.9	15.4	16.2	74.8	27	180	1500
Cyanide	0.4	0.17	0.33	0.38	0.23	0.3	27	27
Calcium	23600	27200	52100	54500	36000	19500	NA	NA
Copper	181	51.3	55.2	47.2	**339 (a)(b)**	94.5	270	270
Lead	347	**500 (a)**	157	210	**639 (a)**	205	400	1000
Manganese	676	367	362	282	501	747	2000	10000
Nickel	42.4	38.4	15.4	20.4	43	22.7	310	310
Selenium	3.6	ND	ND	ND	ND	2.1	180	1500
Silver	ND	ND	ND	ND	ND	ND	180	1500
Zinc	595	307	227	184	450	575	10000	10000
PCBS								
Aroclor 1260	0.18	ND	0.43	0.59	0.84	ND	1	1
Pesticides								
4,4-DDT	0.027	0.062	0.033	0.058	ND	ND	7.9	47.0
4,4-DDE	ND	0.074	ND	0.034	ND	ND	8.9	62.0
Dieldrin	ND	ND	ND	0.059	ND	ND	0.2	1.40
VOCs								
1,2,4-Trimethylbenzene	0.015	NA	ND	NA	NA	ND	52	190
1,3,5-Trimethylbenzene	0.009	NA	ND	NA	NA	ND	52	190
Acetone	0.093	NA	0.012	NA	NA	ND	100	500
SVOCs								
Acenaphthene	4.8	ND	ND	ND	ND	ND	100	500
Acenaphthylene	2.1	ND	3.5	ND	ND	ND	100	500
Anthracene	4.5	Nd	3.3	ND	0.82	1.8	100	500
Benzo(a)anthracene	**5.9 (a)(b)**	0.44	**10 (a)(b)**	**4.1 (a)**	**1.8 (a)**	**2.5 (a)**	1	5.6
Benzo (a) pyrene	**5.1 (a)(b)**	0.59	**9.7 (a)(b)**	**4.1 (a)(b)**	**1.5 (a)(b)**	**2.0 (a)(b)**	1	1
Benzo(b)fluoranthene	**8.1 (a)(b)**	0.73	**15 (a)(b)**	**5.8 (a)(b)**	**2.4 (a)**	**3 (a)**	1	5.6
Benzo (g,h,i) perylene	3.8	ND	4.1	2.4	0.7	0.79	100	500
Benzo (k) fluoranthene	2.9	ND	**5.5 (a)**	2	0.78	1.1	3.9	56
Chrysene	**6.5 (a)**	0.45	**11 (a)**	**3.9 (a)**	1.8	2.4	3.9	56
Fluoranthene	13	0.66	20	8.6	3.6	5	100	500
Fluorene	5.7	ND	ND	ND	ND	0.8	100	500
Indeno (1,2,3-cd) pyrene	**4.6 (a)**	0.44	**5.4 (a)**	**2.5 (a)**	**0.77 (a)**	**0.96 (a)**	0.5	5.6
Naphthalene	14	ND	4.4	ND	ND	0.53	100	500
Phenanthrene	14	ND	8.6	3.5	3	5.2	100	500
Pyrene	11	0.6	16	7.5	3.1	4.1	100	500

ND - Non-Detect NA - Not Available or Not analyzed for

Shaded Value - Exceeds Part 375 SCOs

2019 BE3
REMEDIAL INVESTIGATION REPORT

TABLE 1

150 TONAWANDA STREET - RI SOIL BORING SAMPLE ANALYTICAL RESULTS SUMMARY

Contaminants	Sample Identification						Date Sampled: 8/15/18			PART 375 Soil Cleanup Objectives			
	BH-1 (6-7')	BH-2 (0 -1') Surface	BH-2 (8 -10') Native	BH-3 (4 - 6')	BH-4 (0 -1') Surface	BH-4 (2.8 -4') Native	BH-5 (2 - 4')	BH-6 (0-1') Surface	BH-6 (5.5 -8') Native	Unrestricted Use	Residential	Restricted Residential	Protection of Groundwater
METALS													
Arsenic	8.17	4.23	5.18	6.92	15.10	3.38	3.96 J	6.37	3.51	13	16	16	16
Barium	116	96.8	119.0	107.0	82.3	129.0	64.2	68.9	94.6	350	350	400	820
Beryllium	0.877	0.703	0.840	0.990	0.670	1.090	0.580	0.580	0.960	7.2	14	72	47
Cadmium	0.361	0.541	0.401	0.960	1.11	0.380	0.54 J	0.670	0.380	2.5	2.5	4.3	7.5
Chromium	20.6	15.8	20.9	33.9	14.5	25.9	24.7 J	11.2	23.9	30	36	180	NA
Copper	28.3	22.9	21.0	96.5	141.0	18.7	54.2 J	30.3	19.1	50	270	270	1720
Lead	36.6	27.7	12.0	119.0	271.0	12.5	23.1 J	134.0	8.2	63	400	400	450
Manganese	325	197	395	479	477	329	1560 J	680	366	1600	2,000	2,000	2,000
Total Mercury	0.042	0.36	0.03	0.13	0.24	0.04	0.05	0.32	0.02	0.18	0.81	0.81	0.73
Nickel	21.4	17.3	22.3	27.3	21.7	27.3	20 J	9.42	23.4	30	140	310	130
Selenium	ND	ND	ND	ND	1.1	ND	ND	ND	ND	3.9	36	180	4
Silver	0.487	0.84	1.26	1.79	2.98	1.69	1.98	1.09	1.37	2	36	180	8.3
Tot Cyanide	ND	ND	ND	ND	ND	ND	ND	ND	ND	27	27	27	40
Zinc	115	78.7	61.3	144	199	73.1 J	71.3	128	60.1	109	2200	10,000	2,480
PCBs													
PCB-1254	ND	ND	ND	ND	ND	ND	ND	0.14 J	ND	0.1	1	1	3.2
PCB-1260	0.021 J	0.04 J	ND	0.04 J	ND	ND	ND	ND	ND	0.1	1	1	3.2
PESTICIDES													
4,4-DDT	0.005	ND	ND	ND	ND	ND	ND	0.032	ND	0.0033	1.7	7.9	136
4,4-DDE	ND	0.005 J	ND	ND	ND	ND	ND	0.009 J	ND	0.0033	1.8	8.9	17
4,4-DDD	ND	ND	ND	ND	ND	ND	ND	0.01 J	ND	0.0033	2.6	13	14
beta-BHC	ND	ND	ND	ND	ND	ND	ND	0.007 J	ND	0.036	0.072	0.36	0.09
Delta-BHC	ND	ND	ND	ND	0.004	ND	ND	0.004	ND	0.04	100	100	0.25
Endosulfan Sulfate	0.002 J	0.003 J	ND	0.005 J	ND	ND	ND	0.007 J	ND	2.4	4.8	24	1000
Endrin	0.004 J	ND	ND	0.004 J	ND	ND	ND	0.01 J	ND	0.014	2.2	11	0.06
Endrin Ketone	0.004	ND	ND	ND	0.008 J	ND	ND	0.014	ND	NA	NA	NA	NA
Dieldrin	ND	0.002 J	ND	ND	ND	ND	ND	0.009 J	ND	0.005	0.039	0.2	0.1
Aldin	ND	ND	ND	ND	ND	ND	ND	0.01 J	ND	0.005	0.019	0.097	0.19
Heptachlor	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.042	0.42	2.1	0.38
SEMIVOLATILE ORGANIC COMPOUNDS													
Acenaphthene	0.311 J	0.4	ND	0.177 J	0.93	ND	ND	0.36	ND	20	100	100	98
Acenapthylene	ND	ND	ND	ND	ND	ND	ND	0.32	ND	100	100	100	107
Anthracene	0.389	1.22	ND	0.566	0.67	ND	ND	0.97	ND	100	100	100	1000
Benz(a)anthracene	1.140	4.02	0.185 J	1.16	1.3	ND	0.393	2.56	ND	1	1	1	1
Benzo(a)pyrene	0.981	3.89	ND	0.89	1.03	ND	0.355	2.08	ND	1	1	1	22
Benzo(b)fluoranthene	1.170	4.36	ND	0.865	1.38	ND	1.08	2.26	ND	1	1	1	1.7
Benzo(g,h,i)perylene	0.732	2.93	ND	0.589	0.708	ND	0.73	1.34	ND	100	100	100	1000
Benzo(k)fluoranthene	0.735	2.28	ND	0.779	1.01	ND	0.321	1.4	ND	0.8	1	3.9	1.7
Chrysene	1.240	4.32	0.216 J	1.19	1.45	ND	0.773	2.56	ND	1	1	3.9	1
Dibenz(a,h)anthracene	0.209 J	0.61	ND	0.202 J	0.266 J	ND	0.255 J	0.36	ND	0.33	0.33	0.33	1000
Fluoranthene	2.34	9.02	0.303	2.48	1.76	ND	0.642	5.85	ND	100	100	100	1000
Fluorene	ND	0.38	ND	0.25 J	ND	ND	ND	0.326	ND	30	100	100	386
Naphthalene	0.281 J	0.18	ND	0.182 J	1.19	ND	ND	0.34	ND	12	100	100	12
Indeno(1,2,3-cd)pyrene	0.705	2.73	ND	0.601	0.736	ND	0.715	1.35	ND	0.5	0.5	0.5	8.2
Phenanthrene	1.440	4.79	0.42	1.94	1.23	ND	0.247 J	3.92	ND	100	100	100	1000
Pyrene	1.890	7.61	0.33 J	1.97	1.52	ND	0.499	5.02	ND	100	100	100	1000
TICs	21 J	20.2 J	ND	5.0 J	28.9 J	4.1 J	4.7 J	19.7 J	ND	NA	NA	NA	NA
Volatile Organic Compounds													
Acetone	ND	NA	ND	0.013 J	NA	0.04	ND	NA	ND	0.05	100	100	0.05
cis-1,2-Dichloroethene	0.004 J	NA	ND	ND	NA	ND	ND	NA	ND	0.25	59	100	0.25
m,p-Xylene	0.005 J	NA	ND	ND	NA	ND	ND	NA	ND	0.26	100	100	1.6
Toluene	0.006 J	NA	ND	ND	NA	ND	ND	NA	ND	0.7	100	100	0.7
TICs	ND	NA	ND	ND	NA	ND	ND	NA	ND	NA	NA	NA	NA

ND - Non-Detect NA - Not Applicable All Data is Validated J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

>/= to Residential/Restricted-Residential SCO and Unrestricted Use SCO

All values in ppm

>Unrestricted Use SCO but <Residential/Restricted-Residential SCO

>Unrestricted Use & Residential SCO but <Restricted-Residential SCO

TABLE 4
150 TONAWANDA STREET - RI GW SAMPLE ANALYTICAL RESULTS SUMMARY

Contaminants	Sample Identification			Date Sampled: 9/21/18	NYSDEC
	MW-1	MW-2	MW-3	MW-4	TOGS 1.1.1. GA (1)
METALS					
Arsenic	ND	ND	ND	ND	25
Barium	ND	ND	ND	ND	1000
Beryllium	ND	ND	ND	ND	3
Chromium	ND	ND	ND	ND	50
Copper	15 J	14.4 J	18 J	20 J	200
Cyanide	ND	ND	ND	ND	200
Manganese	196	**405**	258	**1400**	300
Nickel	ND	ND	ND	60	100
Total Mercury	ND	ND	ND	ND	0.7
Zinc	ND	ND	72	100	2000
Selenium	ND	ND	ND	ND	10
PCBs					
PCB 1254	ND	ND	0.065 J	ND	0.09
PCB-1260	ND	ND	**0.134 J**	ND	0.09
PESTICIDES					
Aldrin	ND	ND	ND	0.127 J	ND
alpha-BHC	ND	ND	ND	0.111	NA
beta-BHC	ND	ND	ND	ND	NA
Endrin	0.11 J	ND	ND	0.172	ND
Heptachlor	ND	**0.065**	ND	**0.141 J**	0.04
Heptachlor Epoxide	**0.178 J**	ND	ND	**0.11 J**	0.03
trans-Chlordane	0.056 J	ND	ND	ND	NA
SEMIVOLATILE ORGANIC COMPOUNDS					
SVOCs	ND	ND	ND	ND	NA
Volatile Organic Compounds					
Acetone	ND	ND	ND	0.006	50
Carbon disulfide	ND	1.44 J	ND	0.003	NA
TICs	ND	ND	ND	ND	NA
Field Parameters					
Turbidity (NTU)	1.0	6.4	18	19	NA
pH	6.97	6.71	6.84	6.2	NA
Dissolved Oxygen	1.98	0	1.32	0	NA
Temp (degrees C)	19.79	17.08	17.93	15.8	NA
Conductivity	2.11	2.23	3.03	4.15	NA

All values in ppb

N/A - Not Applicable ND - Non-detect All Data is Validated

(1) - TOGs 1.1.1 GA - Technical and Operational Guidance Series (1.1.1) Source of Drinking Water (Groundwater)

Exceeds TOGs Guidance Value

J - The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

1660 NIAGARA STREET
SITE NO. C915311

2016 LABELLA ASSOCIATES PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

Table 1
Buffalo Niagara Riverkeeper, 1660 Niagara Street, Buffalo, New York
Phase II Environmental Site Assessment
Summary of Test Pit Analytical Results
Project #2151177
(Detected Compounds Only)

Sample ID	TP1	TP2	TP3	TP4	TP5	TP6	TP7	TP8	CP-51 Soil Cleanup Levels	Unrestricted Use Soil Cleanup Objectives	Commercial Use Soil Cleanup Objectives
Depth	2-4 ft. bgs	4-6 ft. bgs	7-9 ft. bgs	2-4 ft. bgs	2-4 ft. bgs	1-3 ft. bgs	2-4 ft. bgs	2-4 ft. bgs			
Sample Date	11/18/2015	11/18/2015	11/18/2015	11/18/2015	11/18/2015	11/18/2015	11/18/2015	11/18/2015			
Volatile Organic Compounds (ug/kg)											
2-Butanone	NA	<	9.2 J	<	NA	NA	NA	NA	NL	NL	NL
Acetone	NA	<	**62.2**	8.3 J	NA	NA	NA	NA	NL	50	500,000
Chloroform	NA	<	<	1.8 J	NA	NA	NA	NA	NL	370	350,000
Cyclohexane	NA	<	16.8	<	NA	NA	NA	NA	NL	NL	NL
Isopropylbenzene	NA	<	4.4 J	<	NA	NA	NA	NA	2,300	NL	NL
Methylene Chloride	NA	50	14.8 B	4.3 JB	NA	NA	NA	NA	NL	50	500,000
Methylcyclohexane	NA	<	63.9	<	NA	NA	NA	NA	NL	NL	NL
m/p Xylene	NA	<	11.6 J	4.1 J	NA	NA	NA	NA	*260	*260	*500,000
o-Xylene	NA	<	6.7	4.5 J	NA	NA	NA	NA	*260	*260	*500,000
n-propylbenzene	NA	<	5.7 J	<	NA	NA	NA	NA	3,900	3,900	500,000
tert-Butylbenzene	NA	<	4.8 J	<	NA	NA	NA	NA	5,900	5,900	500,000
sec-Butylbenzene	NA	<	8.7	<	NA	NA	NA	NA	11,000	11,000	500,000
Toluene	NA	<	3.5 J	2.7 J	NA	NA	NA	NA	700	700	500,000
Tetrachloroethene	NA	<	<	2.7 J	NA	NA	NA	NA	NL	1,300	150,000
Trichloroethene	NA	<	<	4.1 J	NA	NA	NA	NA	NL	470	200,000
1,2,4-Trimethylbenzene	NA	<	18.5	4.9 J	NA	NA	NA	NA	3,600	3,600	190,000
1,3,5-Trimethylbenzene	NA	<	5.4 J	2.8 J	NA	NA	NA	NA	8,400	8,400	190,000
Semi-Volatile Organic Compounds (ug/kg)											
Dimethylphthalate	NA	790	810	1,300	NA	NA	NA	NA	NL	NL	NL
RCRA Metals (mg/kg)											
Arsenic	8.65	5	8.5	**174**	4.1	10.2	**16.5**	7	NA	13	16
Barium	98.3	59.2	95.8	261	41.7	65.6	56.2	**375**	NA	350	400
Cadmium	0.58	0.3 J	0.9	1.7	0.23 J	0.64	0.52	1.31	NA	2.5	9.3
Chromium	**14.7**	**11.3**	**15.5**	**25.7**	**6.04**	**11.5**	**10.7**	**21.3**	NA	**1/30	**400/1,500
Lead	**208**	56.1	**123**	**1,070**	**134**	**224**	**139**	**549**	NA	63	1,000
Mercury	**0.41**	**0.3**	**2.5**	**4.9**	**0.6**	**0.37**	**0.23**	**0.42**	NA	0.18	2.8
Silver	1.67	1.7	**3**	**6.9**	0.8	**2.53**	**2.21**	**2.16**	NA	2	1,500

NYSDEC Part 375 Industrial and Commercial Soil Cleanup Objectives (December 2006)

NYSDEC Commissioner Policy (CP)-51 Soil Cleanup Guidance (October 2010)

NYSDEC Division Technical and Administrative Guidance Memorandum HWR-92-4060, Eastern USA Background Concentrations for Soil

NL = Not listed

NA = Not applicable

ft. bgs = feet below the ground surface

ug/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

< = Indicates the analyte was analyzed for, but not detected.

*Indicates a mixed Xylene Soil Cleanup Level

** Hexavalent/trivalent chromium results

J = Inidicates an estimated value.

B = Inidicates the analyte was found in the trip blank as well as the sample

No detectable compounds were identified during PCB analysis

Bold = Analyte detected above Part 375 Unrestricted Use SCOs

Yellow = Analyte detected above Part 375 Commercial SCOs

Underlined = Analyte detected above CP-51

Table 2
Buffalo Niagara Riverkeeper, 1660 Niagara Street, Buffalo, New York
Phase II Environmental Site Assessment
Summary of Soil Boring Analytical Results
(Detected Compounds Only)

Sample ID	SB1	SB2	SB3	SB4	*SB5A	*SB6	SB7	SB8	CP-51 Soil Cleanup Levels	Unrestricted Use Soil Cleanup Objectives	Commercial Use Soil Cleanup Objectives
Depth	9-10 ft. bgs	2-4 ft. bgs	2-4 ft. bgs	12-14 ft. bgs	9-10 ft. bgs	4-8 ft. bgs	2-4 ft. bgs	18-20 ft. bgs			
Sample Date	12/8/2015	12/9/2015	12/10/2015	12/11/2015	12/12/2015	12/13/2015	12/14/2015	12/15/2015			
Volatile Organic Compounds (ug/kg)											
Acetone	**140**	38.8	10.2 J	**260**	<	<	**72.1**	12.3 J	NL	50	500,000
Benzene	<	<	<	<	**19,100**	**1,200**	<	<	60	60	44,000
Carbon Disulfide	1.9 J	2.6 J	<	1.6 J	<	2.2 J	<	<	NL	NL	NL
cis-1,2-Dichloroethene	<	<	<	<	<	<	<	10.4	NL	250	500,000
Cyclohexane	<	<	<	<	<	920	<	<	NL	NL	NL
Ethylbenzene	<	<	<	<	**36,100**	780	<	<	1,000	1,000	390,000
Isopropylbenzene	<	<	<	<	9,600	730	<	<	2,300	NL	NL
Methylene Chloride	<	<	<	<	<	<	2.1 JQ	<	NL	50	500,000
Methylenecyclohexane	<	<	1.9 J	<	26,400	7,000	<	<	NL	NL	NL
Naphthalene	<	<	<	<	34,000	850	1.4 J	<	12,000	NL	NL
n-propylbenzene	<	<	<	<	**44,100**	2,700	<	<	3,900	3,900	500,000
n-Butylbenzene	<	<	<	<	**13,600**	840	<	<	12,000	12,000	NL
2-Butanone	45.8	8.6 J	<	67.1	<	<	15.2 J	<	NL	NL	NL
m/p-Xylenes	<	<	<	<	**93,300**	**2,800**	<	<	*260	**260	**500,000
o-Xylene	<	<	<	<	**14,100**	**290 J**	<	<	*260	**260	**500,000
p-Isopropyltoluene	<	<	<	<	2,100 J	29.4	<	<	10,000	NL	NL
sec-Butlybenzene	<	<	<	<	5,000 J	310 J	<	<	11,000	11,000	500,000
Toluene	<	<	<	<	**45,100**	470 J	<	<	700	700	500,000
1,3,5-Trimethylbenzene	<	<	<	<	**12,400**	720	<	<	8,400	8,400	190,000
1,2,4-Trimethylbenzene	<	<	<	<	**42,700**	2,100	1.4 J	<	3,600	3,600	190,000
Vinyl Chloride	<	<	<	<	<	<	<	2.1 J	NL	20	13,000
Tetrachloroethene	<	1.3 J	<	<	<	<	<	<	NL	1,300	200,000
Semi-Volatile Organic Compounds (ug/kg)											
Phenol	120 J	87.4 J	97.9 J	<	<	<	<	<	NL	330	500,000
2-Methylnaphthalene	<	80 J	160 J	<	210 J	<	<	<	NL	NL	NL
Anthracene	<	81.5 J	<	<	<	<	<	<	100,000	100,000	500,000
Pyrene	<	310 J	<	<	<	<	<	<	100,000	100,000	500,000
Benzo(a)anthracene	<	190 J	<	<	<	<	<	<	1,000	1,000	5,600
Benzo(a)pyrene	<	160 J	<	<	<	<	<	<	1,000	1,000	1,000
Benzo(b)fluoranthene	<	200 J	<	<	<	<	<	<	1,000	1,000	5,600
Benzo(g,h,i)pyrene	<	100 J	<	<	<	<	<	<	100,000	100,000	500,000
Chrysene	<	170 J	<	<	<	<	<	<	1,000	1,000	56,000
Indeno(1,2,3-cd)pyrene	<	95.9 J	<	<	<	<	<	<	500	500	5,600
Fluoranthene	<	430	<	<	<	<	<	<	100,000	100,000	500,000
Naphthalene	<	<	99.6 J	<	600	<	<	<	12,000	12,000	500,000
Phenanthrene	<	340 J	130 J	<	120 J	<	110 J	<	100,000	100,000	500,000
Dimethylphthalate	610	410	640	500	630	500	460	420	NL	NL	NL
RCRA Metals (mg/kg)											
Arsenic	3.29	**27.3**	**65.7**	4.27	**31**	3.66	**17**	2.18	NA	13	16
Barium	61.9	33.3	80.3	101	54.7	128	30.8	29.8	NA	350	400
Cadmium	0.18 J	**28**	0.44	0.26 J	>	0.3 J	**11**	0.33	NA	2.5	9.3
Chromium	12.1	23.6	21.2	18.2	**440**	51.4	20	7.81	NA	***1/30	***400/1,500
Lead	**121**	**423**	33	**127**	49.8	44.2	**243**	9.09	NA	63	1,000
Mercury	**0.33**	**0.25**	0.07	**0.65**	0.12	0.07	0.1	0.01 J	NA	0.18	2.8
Silver	**2.02**	**20.6**	**3.15**	**2.07**	**2.97**	**2.41**	**16.4**	0.77	NA	2	1,500

NYSDEC Part 375 Industrial and Commercial Soil Cleanup Objectives (December 2006)

NYSDEC Commissioner Policy (CP)-51 Soil Cleanup Guidance (October 2010)

NYSDEC Division Technical and Administrative Guidance Memorandum HWR-92-4060, Eastern USA Background Concentrations for Soil

NL = Not listed

NA = Not Applicable

ft. bgs = feet below the ground surface

ug/kg = micrograms per kilogram

mg/kg = milligrams per kilogram

< = Indicates the analyte was analyzed for, but not detected.

*SB5A and SB6 VOC results generated from a secondary dilution factor.

**Indicates a mixed Xylene Soil Cleanup Level

*** Hexavalent/trivalent chromium results

J = Inidicates an estimated value.

No detectable compounds were identified during PCB analysis

Bold = Analyte detected above Part 375 Unrestricted Use SCOs

Yellow = Analyte detected above Part 375 Commercial SCOs

Underlined = Analyte detected above CP-51

Table 3
Buffalo Niagara Riverkeeper, 1660 Niagara Street, Buffalo, New York
Phase II Environmental Site Assessment
Summary of Groundwater Analytical Results
(Detected Compounds Only)

Sample ID	TPMW1	TPMW2	TPMW3	TOGS*
Sample Date	12/11/2015	12/11/2015	12/11/2015	
Volatile Organic Compounds (ug/L)				
Acetone	150	31.4	44	50
Benzene	<	<	4.7 J	1
Carbon Disulfide	0.3 J	0.33 J	<	NL
cis-1,2-Dichloroethene	0.48 J	6.1	190	5
trans-1,2-Dichloroethene	<	<	2.9 J	5
1,1-Dichlororethene	<	<	0.54 J	5
Vinyl Chloride	<	0.58 J	33.5	2
RCRA Metals (ug/L)				
Aresnic	<	6.53 J	<	25
Barium	39.2 J	313	783	1,000
Cadmium	<	<	<	5
Chromium	<	4.94 J	8.92	50
Lead	<	23.6	7.33	25
Mecury	<	0.19 J	0.706	0.7
Selenium	14	11.2	<	10
Silver	<	<	<	50

*Division of Technical and Operational Guidance Series (TOGS) (1.1.1), Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations (Class GA).

No detectable compounds were identified during SVOC analysis.

NL = Not listed

ug/L = micrograms per liter

< = Indicates the analyte was analyzed for, but not detected.

J = Indicates an estimated value

Yellow = Analyte detected above NYSDEC Groundwater Standards

2018 LABELLA ASSOCIATES
DRAFT REMEDIAL INVESTIGATION REPORT

Table 5
1660 Niagara Street Site
1660 Niagara Street, Buffalo, New York
Remedial Investigation
Surface Soil/Fill Sample Results
(Detected Analytes Only)

Sample ID	SS1	DUP	SS2	SS2	SS3	SS3	SS4	SS5	SS6	SS7	SS7RE	SS10	SS10RE	SS12	SS14	SS14RE	Protection of Ecological Resources SCOs	Restricted Residential Use SCOs
Sample Location	RI-TP-1	RI-TP-1	RI-TP-4	RI-TP-4	RI-TP-8	RI-TP-8	RI-TP-10	RI-TP-13	RI-TP-14	RI-TP-16	RI-TP-16	RI-TP-19	RI-TP-19RE	RI-TP-21	RP-TP-23	RI-TP-23RE		
Dilution Factor	1	1	1	2	1	20	1	1	1	1	1	1	1	1	1	1		
Sample Date	5/18/2017	5/18/2017	5/18/2017	5/18/2017	5/18/2017	5/18/2017	5/18/2017	5/18/2017	5/18/2017	7/27/2017	7/27/2017	7/27/2017	7/27/2017	7/28/2017	7/28/2017	7/28/2017		
Volatile Organic Compounds (µg/kg)																		
Ethylbenzene	NA	NA	NA	NA	<	<	NA	NA	NA	<	<	<	<	<	<	<	NL	41,000
Methylene chloride	NA	NA	NA	NA	<	<	NA	NA	NA	2.5 J	3.1 J	5.9	5.2 J	<	2.6 J	4.8 J	12,000	100,000
Tetrachloroethene	NA	NA	NA	NA	**530 EJ**	**44,900 D**	NA	NA	NA	4.5 J	5.9 J	2.1 J	3.4 J	47.3	18.6	7.3	200	19,000
Toluene	NA	NA	NA	NA	<	<	NA	NA	NA	<	<	<	<	<	<	<	36,000	100,000
m/p Xylenes	NA	NA	NA	NA	<	<	NA	NA	NA	<	<	<	<	<	<	<	260	*100,000
o Xylenes	NA	NA	NA	NA	<	<	NA	NA	NA	<	<	<	<	<	<	<		
Semi-Volatile Organic Compounds (µg/kg)																		
Acenaphthene	140 J	<	110 J	400 JD	120 J	NA	<	<	130 J	NA	NA	NA	NA	NA	NA	NA	20,000	100,000
Acenaphthylene	<	<	390 J	<	<	NA	<	<	<	NA	NA	NA	NA	NA	NA	NA	NL	100,000
Anthracene	310 J	120 J	870	900 JD	240 J	NA	200 J	<	370 J	NA	NA	NA	NA	NA	NA	NA	NL	100,000
Benzo(a)anthracene	770 J	540	2,000	1,900 D	570	NA	750	200 J	980	NA	NA	NA	NA	NA	NA	NA	NL	1,000
Benzo(b)fluoranthene	880 J	640	2,200	2,500 D	580	NA	1,100	230 J	1,300	NA	NA	NA	NA	NA	NA	NA	NL	1,000
Benzo(k)fluoranthene	340 J	190 J	820	740 JD	240 J	NA	360 J	<	310 J	NA	NA	NA	NA	NA	NA	NA	NL	3,900
Benzo(g,h,i)perylene	410	310 J	970	1,000 D	330 J	NA	460	110 J	530	NA	NA	NA	NA	NA	NA	NA	NL	100,000
Benzo(a)pyrene	650	470	1,700	1,700 D	510	NA	710	190 J	920	NA	NA	NA	NA	NA	NA	NA	2,600	1,000
Butylbenzylphthalate	<	<	150 J	<	<	NA	<	<	<	NA	NA	NA	NA	NA	NA	NA	NL	NL
Carbazole	160 J	<	330 J	350 JD	<	NA	86.9 J	<	120 J	NA	NA	NA	NA	NA	NA	NA	NL	NL
Chrysene	740	610	1,900	1,900 D	590	NA	820	190 J	1,000	NA	NA	NA	NA	NA	NA	NA	NL	3,900
Dibenzo(a,h)anthracene	120 J	100	260	300 JD	95.4 J	NA	130 J	<	130 J	NA	NA	NA	NA	NA	NA	NA	NL	330
Dibenzofuran	130 J	<	310 J	300 JD	130 J	NA	120 J	<	93.4 J	NA	NA	NA	NA	NA	NA	NA	NL	NL
Dimethylphthalate	500	380 J	680	680 JD	400	NA	630	530	650	NA	NA	NA	NA	NA	NA	NA	NL	NL
Fluoranthene	1,800	920	3,500 E	4,700 D	1,100	NA	1,300	450	2,000	NA	NA	NA	NA	NA	NA	NA	NL	100,000
Fluorene	130 J	<	350 J	330 JD	92.1 J	NA	<	<	120 J	NA	NA	NA	NA	NA	NA	NA	30,000	100,000
Indeno(1,2,3-cd)pyrene	270 JQ	270 JQ	920 Q	740 JDQ	390 JQ	NA	410 Q	<	420 Q	NA	NA	NA	NA	NA	NA	NA	NL	500
2-Methylnaphthalene	200 J	150 J	190 J	170 JD	330 J	NA	270 J	<	98.9 J	NA	NA	NA	NA	NA	NA	NA	NL	NL
Naphthalene	160 J	98 J	210 J	210 JD	200 J	NA	190 J	<	92.2 J	NA	NA	NA	NA	NA	NA	NA	NL	100,000
Phenanthrene	1,400 J	570	3,400 E	3,800 JD	1,100	NA	1,000	320 J	1,500	NA	NA	NA	NA	NA	NA	NA	NL	100,000
Pyrene	1,300 J	900	3,000	3,200 D	1,100	NA	1,000	330 J	1,500	NA	NA	NA	NA	NA	NA	NA	NL	100,000
Pesticides / Herbicides (µg/Kg)																		
4,4-DDE	NA	NA	**50.7 JEP**	**67.6 JDP**	NA	NA	<	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.3	8,900
4,4-DDT	NA	NA	**1,200 JEP**	**1,100 JD**	NA	NA	1.4 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.3	7,900
4,4-DDD	NA	NA	**30.8**	**48.7 JD**	NA	NA	<	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0033	13,000
Aldrin	NA	NA	13.6	16.7 JD	NA	NA	<	NA	NA	NA	NA	NA	NA	NA	NA	NA	140	97
alpha-Chlordane	NA	NA	10.3 P	11 JD	NA	NA	<	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,300	4,200
gamma-Chlordane	NA	NA	8.D	10.6 JD	NA	NA	<	NA	NA	NA	NA	NA	NA	NA	NA	NA	NL	NL
Heptachlor	NA	NA	2.3	<	NA	NA	<	NA	NA	NA	NA	NA	NA	NA	NA	NA	140	2,100
Metals (mg/kg)																		
Aluminum	9,080	7,010	7,820	NA	7,440	NA	6,660	3,720	6,490	NA	NA	NA	NA	NA	NA	NA	NL	NL
Antimony	0.864 J	1.13 J	1.7 J	NA	0.822 J	NA	3.77	<	1.37 J	NA	NA	NA	NA	NA	NA	NA	NL	NL
Arsenic	11.2	7.88	**18**	NA	**15.3**	NA	**20**	7.71	9.78	NA	NA	NA	NA	NA	NA	NA	13	16
Barium	87.9	65.1	147	NA	97.4	NA	121	46.7	87.4	NA	NA	NA	NA	NA	NA	NA	433	400
Beryllium	0.887	0.867	0.435	NA	0.538	NA	0.448	0.235 J	0.401	NA	NA	NA	NA	NA	NA	NA	10	72
Cadmium	1.87	3.66	1.44	NA	0.483	NA	1.02	0.376	0.762	NA	NA	NA	NA	NA	NA	NA	4.0	4.3
Calcium	32,100	24,500	32,800	NA	19,500	NA	8,240	23,000	26,000	NA	NA	NA	NA	NA	NA	NA	NL	NL
Hexavalent chromium	<J	<	<	NA	<	NA	<	<	<	NA	NA	NA	NA	NA	NA	NA	1	110
Trivalent chromium	12.0	9.4	14.9	NA	8.32	NA	14.7	7.93	10.2	NA	NA	NA	NA	NA	NA	NA	41	180
Cobalt	9.44	10.9	12.3	NA	4.63	NA	7.33	4.97	5.56	NA	NA	NA	NA	NA	NA	NA	NL	NL
Copper	49.3	47.2	**103**	NA	**271**	NA	**980**	**172**	**277**	NA	NA	NA	NA	NA	NA	NA	50	270
Iron	23,300 J	34,000	38,800	NA	19,100	NA	37,200	23,100	23,100	NA	NA	NA	NA	NA	NA	NA	NL	NL
Lead	**84.4**	**91.0**	**261**	NA	**210**	NA	**652**	**107**	**427**	NA	NA	NA	NA	NA	NA	NA	63	400
Magnesium	7,210	4,310	5,760	NA	3,660	NA	1,900	5,300	5,270	NA	NA	NA	NA	NA	NA	NA	NL	NL
Manganese	465 J	516	366	NA	156	NA	396	215	396	NA	NA	NA	NA	NA	NA	NA	1,600	2,000
Mercury	0.1	**0.233**	**0.662**	NA	**0.93 D**	NA	**0.968 D**	**0.525**	**0.609**	NA	NA	NA	NA	NA	NA	NA	0.18	0.81
Nickel	17.2	20.6	25.4	NA	14.7	NA	**31**	9.74	15.0	NA	NA	NA	NA	NA	NA	NA	30	310
Potassium	992	830	1,190	NA	628	NA	865	590	924	NA	NA	NA	NA	NA	NA	NA	NL	NL
Seleunim	**<**	**<**	**10.8**	NA	**4.51**	NA	**12.8**	**5.95**	**5.14**	NA	NA	NA	NA	NA	NA	NA	3.9	180
Silver	**<**	**<**	**2.87**	NA	1.38	NA	**3.02**	1.61	1.74	NA	NA	NA	NA	NA	NA	NA	2	180
Sodium	331	357	245	NA	225	NA	160	130	191	NA	NA	NA	NA	NA	NA	NA	NL	NL
Thallium	<	<	0.767 J	NA	0.321 J	NA	0.911 J	0.402 J	0.5 J	NA	NA	NA	NA	NA	NA	NA	NL	NL
Vanadium	19.1	26.7	26.8	NA	13.2	NA	20.8	16.6	18.1	NA	NA	NA	NA	NA	NA	NA	NL	NL
Zinc	**119**	**149**	**432**	NA	**194**	NA	**421**	**150**	**399**	NA	NA	NA	NA	NA	NA	NA	109	10,000

Restricted Residential Use SCOs = NYSDEC Part 375 Restricted Residential Use Soil Cleanup Objectives (SCOs), Table 375-6.8(b) (December 2006)

Protection of Ecological Resources SCOs = Protection of Ecological Resources SCOs, Table 375-6.8(b) (December 2006)

< = Not Detected

NL = Not listed

NA = Not analyzed

µg/kg = Micrograms per kilogram

mg/kg = Milligrams per kilogram

J = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample

D = The analyte identified in an analysis at a secondary dilution factor

E = The analyte's concentration exceeds the calibrated range of the instrument for that specific analysis

Q = the LCS did not meet the control limit's requirements

P = Indicates >25% difference for detected

Concentrations in gray exceed the NYSDEC Part 375 Restricted Residential Use SCOS

Concentrations in **bold** exceed the Protection of Ecological Resources SCOs

* = Guidance value for mixed xylenes

Table 6
1660 Niagara Street Site
1660 Niagara Street, Buffalo, New York
Remedial Investigation
Subsurface Soil/Fill Sample Results
(Detected Analytes Only)

Sample ID	RI-SB-1	RI-SB-2	RI-SB-3	RI-SB-3ME	RI-SB-3	RI-SB-4	RI-SB-4RE	RI-SB-5	RI-SB-6	RI-TP-2	RI-TP-2	RI-TP-3	RI-TP-3	DUP 2 (RI-TP-3)	RI-TP-5	RI-TP-6	RI-TP-7	RI-TP-8	RI-TP-9	RI-TP-11	RI-TP-12	RI-TP-15	RI-TP-19	RI-TP-20	RI-TP-20ME	RI-TP-20MEDL	RI-TP-20	RI-TP-24	RI-TP-24	Protection of Ecological Resources SCOs	Restricted Residential Use SCOs
Depth	10-11 ft bgs	12-13 ft bgs	9-10 ft bgs	5-5.3 ft bgs	5-5.3 ft bgs	1-2 ft bgs	1-2 ftbgs	13-14 ft bgs	1-2 ft bgs	10-12 ft bgs	10-12 ft bgs	3-4 ft bgs	3-4 ft bgs	3-4 ft bgs	3-4 ft bgs	11-12 ft bgs	3-4 ft bgs	6-8 ft bgs	2-3 ft bgs	7-8 ft bgs	11-12 ft bgs	4-6 ft bgs	6-8 ft bgs	1-2 ft bgs	1-2 ft bgs	1-2 ft bgs	6-7 ft bgs	3-4 ft bgs	7-8 ft bgs		
Dilution Factor	1	1	1	1	1	1	1	1	1	1	2	1	5	1	1	1	1	1	1	1	1	1	1	1	10	50	1	1	1		
Sample Date	5/30/2017	5/30/2017	5/30/2017	5/30/2017	5/30/2017	5/30/2017	5/30/2017	5/30/2017	5/30/2017	5/18/2017	5/18/2017	5/18/2017	5/18/2017	5/18/2017	5/18/2017	5/18/2017	5/18/2017	7/27/2017	5/18/2017	5/18/2017	5/18/2017	5/18/2017	7/27/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017	7/28/2017		
Volatile Organic Compounds (µg/kg)																															
Acetone	NA	NA	NA	<	<	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	31.8	NA	NA	NA	NA	94.7	<	<	<	94.9	<	46.2	2,200	100,000
Benzene	NA	NA	NA	12.4	260 D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<	NA	NA	NA	NA	<	<	<	<	<	<	<	70,000	4,800
n-Butylbenzene	NA	NA	NA	70.4	1,800 D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<	NA	NA	NA	NA	<	<	<	<	<	<	<	NL	NL
sec-Butylbenzene	NA	NA	NA	56.3	690 D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<	NA	NA	NA	NA	<	<	<	<	<	<	<	NL	100,000
Carbon Disulfide	NA	NA	NA	<	<	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<	NA	NA	NA	NA	4.2 J	<	<	<	3.7 J	<	<	NL	NL
Cyclohexane	NA	NA	NA	170	<	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<	NA	NA	NA	NA	<	<	<	<	<	<	<	NL	NL
cis-1,2-Dichloroethene	NA	NA	NA	<	<	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<	NA	NA	NA	NA	<	30.2	<	<	<	<	<	NL	59,000
Ethylbenzene	NA	NA	NA	12.4	750 D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<	NA	NA	NA	NA	<	21.8	890 JD	<	<	<	<	NL	41,000
Isopropylbenzene	NA	NA	NA	90.5	770 D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<	NA	NA	NA	NA	<	3.9 J	<	<	<	<	<	NL	NL
Methylcyclohexane	NA	NA	NA	210 E	1,800 D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<	NA	NA	NA	NA	<	18.7	<	<	<	<	<	NL	NL
Methylene chloride	NA	NA	NA	<	<	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.0 J	NA	NA	NA	NA	4.6 J	6.0	<	<	4.5 J	2.3 J	2.7 J	12,000	100,000
Methyl ethyl ketone (2-Butanone)	NA	NA	NA	<	<	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<	NA	NA	NA	NA	18.9 J	<	<	<	17.5 J	<	8.5 J	100,000	100,000
4-Methyl-2-pentanone	NA	NA	NA	<	<	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<	NA	NA	NA	NA	<	31.7	<	<	<	<	<	100,000	100,000
n-propylbenzene	NA	NA	NA	280 E	4,200 D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<	NA	NA	NA	NA	<	<	<	<	<	<	<	NL	100,000
Tetrachloroethene	NA	NA	NA	<	<	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.3 J	NA	NA	NA	NA	3.3 J	**3,500 E**	**60,000 ED**	**63,100 D**	30.9	<	<	200	19,000
Toluene	NA	NA	NA	5.5	640 D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<	NA	NA	NA	NA	<	210 E	10,100 D	10,500 D	<	<	<	36,000	100,000
Trichloroethene	NA	NA	NA	<	<	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<	NA	NA	NA	NA	<	25.9	<	<	<	<	<	200	21,000
1,2,4-Trimethylbenzene	NA	NA	NA	5.6	1,200 D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<	NA	NA	NA	NA	<	<	<	<	<	<	<	NL	52,000
1,3,5-Trimethylbenzene	NA	NA	NA	3.4 J	320 D	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<	NA	NA	NA	NA	<	<	<	<	<	<	<	NL	52,000
Vinyl Chloride	NA	NA	NA	<	<	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<	NA	NA	NA	NA	<	<	<	<	<	<	<		
m/p Xylenes	NA	NA	NA	21.7	**2,000 D**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<	NA	NA	NA	NA	<	**390 E**	**9,400 D**	**8,400 JD**	<	<	<	*260	*100,000
o Xylene	NA	NA	NA	2.0 J	**280 D**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<	NA	NA	NA	NA	<	**510 E**	**3,700 D**	**3,100 JD**	<	<	<		
Semi-Volatile Organic Compounds (µg/kg)																															
Acenaphthene	<	<	<	NA	NA	<	<	<	<	650	330 JD	<	<	<	100 J	<	<	NA	<	<	<	<	NA	NA	NA	NA	NA	NA	NA	20,000	100,000
Acenaphthylene	<	<	<	NA	NA	<	<	<	<	270 J	670 JD	<	<	<	100 J	<	<	NA	<	<	<	<	NA	NA	NA	NA	NA	NA	NA	NL	100,000
Anthracene	<	<	<	NA	NA	77.3 J	76.2 J	<	86.8 J	2,700	3,100 D	190 J	<	<	590	<	<	NA	130 J	120 J	<	<	NA	NA	NA	NA	NA	NA	NA	NL	100,000
Benzo(a)anthracene	<	<	<	NA	NA	330 J	350 J	<	480	4,300 E	4,600 D	310 J	<	110 J	920	<	230 J	NA	560	210 J	<	<	NA	NA	NA	NA	NA	NA	NA	NL	1,000
Benzo(b)fluoranthene	<	<	<	NA	NA	560	540	<	650	3,000	4,100 D	<	<	140 J	700	<	260 J	NA	750	210 J	<	<	NA	NA	NA	NA	NA	NA	NA	NL	1,000
Benzo(k)fluoranthene	<	<	<	NA	NA	170 J	170 J	<	200 J	1,300	1,200 D	130 J	<	<	250 J	<	110 J	NA	260 J	94.3 J	<	<	NA	NA	NA	NA	NA	NA	NA	NL	3,900
Benzo(g,h,i)perylene	<	<	<	NA	NA	260 JQ	250 JQ	<	320 JQ	900	900 JD	190 J	<	95 J	240	<	150 J	NA	340 J	<	<	<	NA	NA	NA	NA	NA	NA	NA	NL	100,000
Benzo(a)pyrene	<	<	<	NA	NA	360	350 J	<	450	2,800	3,200 D	240 J	<	120 J	600	<	200 J	NA	500	150 J	<	<	NA	NA	NA	NA	NA	NA	NA	2,600	1,000
Butylbenzylphthalate	<	<	<	NA	NA	200 J	210 J	<	<	<	<	7,000 E	8,400 D	<	<	<	<	NA	<	<	<	<	NA	NA	NA	NA	NA	NA	NA	NL	NL
Carbazole	<	<	<	NA	NA	120 J	100 J	<	<	<	<	<	<	<	110 J	<	<	NA	<	<	<	<	NA	NA	NA	NA	NA	NA	NA	NL	NL
Chrysene	<	<	<	NA	NA	460	450	<	470	3,500	3,800 D	320 J	<	130 J	810	<	280 J	NA	580	190 J	<	<	NA	NA	NA	NA	NA	NA	NA	NL	3,900
Dibenzo(a,h)anthracene	<	<	<	NA	NA	<	<	<	97.3 J	380 J	350 JD	<	<	<	120	<	<	NA	82.1 J	<	<	<	NA	NA	NA	NA	NA	NA	NA	NL	330
Dibenzofuran	<	<	<	NA	NA	<	<	<	<	530	550 JD	<	<	<	160 J	<	<	NA	<	<	<	<	NA	NA	NA	NA	NA	NA	NA	NL	NL
Dimethylphthalate	350 J	300 J	320 J	NA	NA	220 J	230 J	370 J	220 J	480 J	510 JD	410 J	<	820	670	630	580	NA	680	640	530	490 J	NA	NA	NA	NA	NA	NA	NA	NL	NL
Di-n-butylphthalate	<	<	<	NA	NA	<	<	<	<	<	<	3,300	4,200 D	<	<	<	<	NA	<	<	<	<	NA	NA	NA	NA	NA	NA	NA	NL	NL
Di-n-octyl phthalate	<	<	<	NA	NA	<	<	<	<	<	<	150 J	<	<	<	<	<	NA	<	<	<	<	NA	NA	NA	NA	NA	NA	NA	NL	NL
bis(2-Ethylhexyl)phthalate	<	<	<	NA	NA	<	<	<	<	<	<	320 J	<	<	<	<	<	NA	<	<	<	<	NA	NA	NA	NA	NA	NA	NA	NL	NL
Fluoranthene	<	<	<	NA	NA	1,100	1,100	<	580	4,200 E	6,300 D	720	940 JD	220 J	1,600	<	330 J	NA	950	340 J	<	<	NA	NA	NA	NA	NA	NA	NA	NL	100,000
Fluorene	<	<	<	NA	NA	<	<	<	<	1,300	1,400 D	93.6 J	<	<	140 J	<	<	NA	<	<	<	<	NA	NA	NA	NA	NA	NA	NA	30,000	100,000
Indeno(1,2,3-cd)pyrene	<	<	<	NA	NA	220 J	230 J	<	310 J	1,400 Q	790 JDQ	180 JQ	<	<	350 JQ	<	130 JQ	NA	280 JQ	<	<	<	NA	NA	NA	NA	NA	NA	NA	NL	500
2-Methylnaphthalene	<	<	<	NA	NA	<	<	<	<	320 J	320 JD	<	<	<	130 J	<	<	NA	<	<	<	<	NA	NA	NA	NA	NA	NA	NA	NL	NL
Naphthalene	<	<	<	NA	NA	<	<	<	<	230 J	220 JD	<	<	<	<	<	<	NA	<	<	<	<	NA	NA	NA	NA	NA	NA	NA	NL	100,000
Phenanthrene	<	<	<	NA	NA	680	670	360 J	420 J	4,700 E	5,400 D	810	840 JD	120 J	1,900	<	170 J	NA	660	350 J	<	<	NA	NA	NA	NA	NA	NA	NA	NL	100,000
Phenol	340 J	340 J	290 J	NA	NA	140 J	130 J	<	220 J	<	<	<	<	<	<	<	<	NA	<	<	<	<	NA	NA	NA	NA	NA	NA	NA	30,000	100,000
Pyrene	<	<	<	NA	NA	880	910	<	640	4,200 E	4,600 D	720	670 JD	210 J	1,400	<	370 J	NA	740	270 J	<	<	NA	NA	NA	NA	NA	NA	NA	NL	100,000
1,1-Biphenyl	<	<	<	NA	NA	<	<	<	<	110 J	<	<	<	<	<	<	<	NA	<	<	<	<	NA	NA	NA	NA	NA	NA	NA	NL	NL
Pesticides (µg/Kg)																															
Pesticides	<	NA	NA	NA	NA	NA	NA	NA	<	NA	NA	NA	NA	NA	NA	NA	<	NA	NA	NA	<	<	NA	NA	NA	NA	NA	NA	NA	NA	NA
Metals (mg/kg)																															
Aluminum	5,750	7,340	11,600	NA	NA	5,870	NA	11,100	6,760	12,400	NA	7,080	NA	5,370	4,710	8,900	6,610	NA	4,430	3,080	8,130	4,750	NA	NA	NA	NA	NA	NA	NA	NL	NL
Antimony	<	<	1.11 J	NA	NA	<	NA	<	1.22 J	<	NA	0.877 J	NA	1.84 J	1.69 J	<	1.94 J	NA	4.19	<	<	0.752 J	NA	NA	NA	NA	NA	NA	NA	NL	NL
Arsenic	4.24	3.06	**61.5**	NA	NA	5.26	NA	3.99	5.94	3.27	NA	**29.6**	NA	**24.5**	**88.1**	1.8	**22.6**	NA	8.05	**14.5**	3.94	12	NA	NA	NA	NA	NA	NA	NA	13	16
Barium	49.4	30.0	70.5	NA	NA	67.5	NA	77.0	74.7	104	NA	86.7	NA	72.5	75.4	51.1	84.7	NA	92.7	41.6	85	32.7	NA	NA	NA	NA	NA	NA	NA	433	400
Beryllium	0.239 J	0.325	0.682	NA	NA	0.407	NA	0.546	0.376	0.749	NA	1.08	NA	1.17	0.613	0.364	0.544	NA	0.316	0.564	0.348	0.41	NA	NA	NA	NA	NA	NA	NA	10	72
Cadmium	<	<	2.38	NA	NA	0.322	NA	0.311 J	0.979	1.42	NA	**4.02**	NA	3.96	1.53	0.21 J	2.23	NA	2.14	0.273 J	0.22 J	1.23	NA	NA	NA	NA	NA	NA	NA	4	4.3
Calcium	3,410	2,600	22,400	NA	NA	118,000	NA	3,610	14,000	33,900	NA	16,200	NA	13,400	4,920	2,120	5,760	NA	14,400	7,220	14,100	11,300	NA	NA	NA	NA	NA	NA	NA	NL	NL
Hexavalent chromium	<	<	<	NA	NA	<	NA	<	<	<	NA	0.101 J	NA	<	<	<	<	NA	<	<	<	<	NA	NA	NA	NA	NA	NA	NA	1	110
Trivalent chromium	9.07	10.0	20.2	NA	NA	4.74	NA	15.5	35.0	13.4	NA	13.6 J	NA	14.4	14.9	12.3	14.8	NA	8.91	10.6	11.7	13.3	NA	NA	NA	NA	NA	NA	NA	41	180
Cobalt	8.42	6.67	22.5	NA	NA	2.42	NA	7.99	9.74	15.0	NA	13.1	NA	14.7	16.5	5.81	33.9	NA	3.89	9.27	8.59	26.5	NA	NA	NA	NA	NA	NA	NA	NL	NL
Copper	17.2	15.9	**62.5**	NA	NA	24.3	NA	32.3	**88.5**	25.5	NA	**84.9**	NA	**80.3**	**82.5**	13.2	**52.3**	NA	**584**	**74.2**	8.96	21.1	NA	NA	NA	NA	NA	NA	NA	50	270
Iron	18,300	14,100	61,500 D	NA	NA	6,320	NA	18,100	57,500 D	19,300	NA	50,600	NA	56,600	66,100 D	12,600	76,300 D	NA	17,500	31,200	17,300	67,500 D	NA	NA	NA	NA	NA	NA	NA	NL	NL
Lead	15.5	12.6	**88.9**	NA	NA	21.6	NA	18.2	**102**	34.4	NA	**132**	NA	**127**	**208**	14.5	**233**	NA	**732**	**116**	**72.9**	57.6	NA	NA	NA	NA	NA	NA	NA	63	400
Magnesium	2,930	2,600	7,370	NA	NA	12,000	NA	3,540	3,160	13,000	NA	3,990	NA	2,490	1,310	3,050	2,220	NA	2,910	1,480	6,870	3,900	NA	NA	NA	NA	NA	NA	NA	NL	NL
Manganese	231	95.9	391	NA	NA	376	NA	108	430	446	NA	291	NA	265	181	97.7	395	NA	311	194	182	327	NA	NA	NA	NA	NA	NA	NA	1,600	2,000
Mercury	0.027	0.026	0.021	NA	NA	0.067	NA	0.09	0.029	0.069	NA	0.137	NA	**0.320**	0.156	0.027	0.142	NA	**0.470**	**0.223**	0.116	0.136	NA	NA	NA	NA	NA	NA	NA	0.18	0.81
Nickel	22.1	20.2	**51.8**	NA	NA	7.58	NA	27.4	24.2	26.8	NA	22.4	NA	24.5	26.8	20.0	**46.4**	NA	15.7	21.2	21.0	**34.1**	NA	NA	NA	NA	NA	NA	NA	30	310
Potassium	767	640	1,760	NA	NA	414	NA	1,010 J	988	1,800	NA	1,490	NA	1,070	934	677	1,100	NA	519	448	842	686	NA	NA	NA	NA	NA	NA	NA	NL	NL
Seleunim	**6.44**	**5.1**	**20.0**	NA	NA	<	NA	**6.83**	**18.9**	<	NA	<	NA	<	**28.1**	**4.43**	**28.5**	NA	**4.38**	**12.8**	**4.56**	**27.0**	NA	NA	NA	NA	NA	NA	NA	2	180
Silver	1.06	0.854	**3.71**	NA	NA	0.303 J	NA	1.2	**3.22**	<	NA		NA	<	**4.58**	0.939	**5.74**	NA	1.46	**2.17**	1.22	**5.26**	NA	NA	NA	NA	NA	NA	NA	2	180
Sodium	172	102 J	612	NA	NA	211	NA	111	109 J	222	NA	635	NA	657	327	97.5 J	323	NA	108	87.9 J	87.1 J	103 J	NA	NA	NA	NA	NA	NA	NA	NL	NL
Thallium	0.538 J	<	0.833 J	NA	NA	0.631 J	NA	<	<	<	NA	<	NA	<	0.785 J	<	1.44 J	NA	0.346 J	0.428 J	<	0.826 J	NA	NA	NA	NA	NA	NA	NA	NL	NL
Vanadium	15.2	12.0	35.4	NA	NA	6.94	NA	18.3	79.6	22.4	NA	36.2	NA	37.4	35.2	14.2	32.7	NA	12.7	25.4	15.9	32.4	NA	NA	NA	NA	NA	NA	NA	NL	NL
Zinc	66.9	58.4	**435**	NA	NA	47.0	NA	73.2	103	64.7	NA	**135**	NA	**145**	**198**	59.8	**578**	NA	**569**	86.9	72.5	90.0	NA	NA	NA	NA	NA	NA	NA	105	10,000

Restricted Residential Use SCOs = NYSDEC Part 375 Ristricted Residential Use Soil Cleanup Objectives (SCOs), Table 375-6.8(b) (December 2006)

Protection of Ecological Resources SCOs = Protection of Ecological Resources SCOs, Table 375-6.8(b) (December 2006)

< = Not detetcted

NL = Not listed

NA = Not analyzed

ft bgs = Feet below the ground surface

µg/kg = Micrograms per kilogram

mg/kg = Milligrams per kilogram

J = The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample

D = The analyte identified in an analysis at a secondary dilution factor

E = The analyte's concentration exceeds the calibrated range of the instrument for that specific analysis

Q = the LCS did not meet the control limit's requirements

Concentrations in gray exceed the NYSDEC Part 375 Restricted Residential Use SCOS

Concentrations in **bold** exceed the Protection of Ecological Resources SCOs

* = Guidance value for total xylenes

Table 7
1660 Niagara Street Site
1660 Niagara Street, Buffalo, New York
Remedial Investigation
Summary of Groundwater Analytical Results
(Detected Analytes Only)

Sample ID	RI-MW-1	RI-MW-2	RI-MW-3	RI-MW-3	RI-MW-4	RI-MW-4	RI-MW-5	RI-MW-5	DUP (RI-MW-5)	RI-MW-6	RI-MW-6DL	MW-6DL2	RI-MW-6	RI-MW-6 DL	RI-MW-6	DUP (RI-MW-6)	DUP DL RI-(MW-6)	RI-MW-7	RI-MW-7	TPMW-1	NYSDEC TOGS
Sample Date	**6/1 & 6/2/2017**	**6/1 & 6/2/2017**	**6/1/2017**	**1/17/2019**	**6/1/2017**	**1/16/2019**	**6/1/2017**	**1/17/2019**	**6/1/2017**	**6/1/2017**	**6/1/2017**	**6/1/2017**	**8/24/2017**	**8/24/2017**	**1/16/2019**	**8/24/2017**	**8/24/2017**	**8/24/2017**	**1/16/2019**	**1/17/2019**	
Dilution Factor	**1**	**1**	**1**	**1**	**10**	**10**	**10**	**4**	**10**	**1**	**200**	**2,000**	**400**	**800**	**200**	**400**	**800**	**400**	**200**	**1**	
Volatile Organic Compounds (µg/L)																					
Acetone	25.6	30.2	10.8 J	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	50
Benzene	<	6.1	<	<	900	1,100	43.5 J	28	40.4 J	3,400 E	2,200 JD	2,500 JD	2,100	2,200 JD	2,400	2,300	2,400 JD	2,400	2,500	<	1
Carbon Disulfide	<	<	0.41 J	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	60*
Chloroethane	<	<	<	<	<	<	<	<	<	210 E	210 JD	<	<	<	480	<	<	<	780	<	5
1,1-Dichloroethane	<	<	1.2 J	<	<	<	10.2 J	12	10.1 J	1,600 E	1,200 D	<	1,000 J	1,100 JD	1,400	1,100 J	1,200 JD	1,200 J	1,300	<	5
1,1-Dichloroethene	<	<	<	<	<	<	<	1.9	<	640 E	560 JD	<	420 J	<	540	420 J		<	150	<	5
cis-1,2-Dichloroethene	4.3 J	<	0.94 J	<	<	<	580	510	560	49,000 E	79,000 JED	91,300 D	71,300 E	73,600 D	23,000 D	76,700	75,900 D	26,600	24,000	<	5
trans-1,2-Dichloroethene	<	<	<	<	<	<	<	<	<	320 E	100 JD	<	<	<	<	<	<	<	<	<	5
Ethylbenzene	<	0.65 J	<	<	12.5 J	<	<	<	<	2,800 E	2,000 D	2,400 JD	1,500 J	1,600 JD	2,400	1,600	1,800 JD	1,800 J	2,500	<	5
Isopropylbenzene	<	1.3 J	<	<	24.0 J	<	<	<	<	20.2	<	<	<	<	<	<	<	<	<	<	5
p-Isopropyltoluene	<	2.9 J	<	<	<	<	<	<	<	2.7 J	<	<	<	<	<	<	<	<	<	<	5
Methylcyclohexane	<	1.7 J	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	NL
Methylene Chloride	<	<	<	<	18.1 J	<	15.5 J	<	17.3 J	<	<	<	<	<	<	<	<	<	<	<	5
Methyl ethyl ketone (2-Butanone)	3.5 J	4.8 J	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	50
n-propylbenzene	<	2.9 J	<	<	18.9 J	<	<	<	<	15.8	<	<	<	<	<	<	<	<	<	<	5
Toluene	<	1.3 J	<	<	<	<	3.9 J	<	<	2,600 E	1,400 JD	<	1,200 J	1,300 JD	1,600	1,400 J	1,500 JD	920 J	1,000	<	5
1,2,4-Trichlorobenzene	<	<	<	<	44.4 J	<	<	<	<	<	<	<	<	<	<	<	<	<	<	<	5
1,1,1-Trichloroethane	<	<	<	<	<	<	<	<	<	1,200 E	830 JD	<	790 J	860 JD	1,100	860 J	<	970 J	1,100	<	5
1,1,2-Trichloroethane	<	<	<	<	<	<	<	<	<	3.6 J	<	<	<	<	<	<	<	<	<	<	1
Trichloroethene	<	<	<	<	<	<	<	<	<	15.7	<	<	<	<	<	<	<	110 J	220	<	5
1,1,2-Trichlorotrifluoroethane	<	<	<	<	<	<	<	<	<	1.1 J	<	<	<	<	<	<	<	<	<	<	5
1,2,4-Trimethylbenzene	<	<	<	<	8.9 J	<	<	<	<	310 E	220 JD	<	<	<	<	<	<	180 J	<	<	5
1,3,5-Trimethylbenzene	<	<	<	<	5.3 J	<	<	<	<	88.7	<	<	<	<	<	<	<	<	<	<	5
Vinyl Chloride	<	3.9 J	<	1.0	<	<	280	630	260	8,800 E	6,700 D	8,200 JD	6,400	6,800 D	9,400	7,100	7,500 D	3,500	4,400	<	2
m/p-Xylenes	<	1.3 J	13.1	<	<	<	<	<	<	1,400 E	830 JD	<	600 J	<	990	690 J	1,000 JD	540 J	870	<	5
o-Xylene	<	<	<	<	7.5 J	8.6	<	<	<	780 E	520 JD	<	380 J	<	580	410 J	<	390 J	570	<	5
Total VOCs	33.4	57.05	26.45	1	1,039.60	1,108.60	933.1	1,181.90	887.8	73,207.8	95,770	104,400	85,690	87,460	43,890	92,580	91,300	38,610	39,390	<	NL
Semi-Volatile Organic Compounds (µg/L)																					
Acenaphthene	<	<	<	0.7	46	61	<		<	31	<	<	NA	NA	34	NA	NA	NA	45	<	20
Acenaphthylene	<	<	<	0.88	<	0.85	<	0.01	<	44.3	<	<	NA	NA	52	NA	NA	NA	62	0.02	NL
Anthracene	<	<	<	0.25	<	1.7	<	0.01	<	2.8 J	<	<	NA	NA	3.4	NA	NA	NA	13	0.03	50
Benzo(a)anthracene	<	<	<	0.07	<	<	<	<	<	<	<	<	NA	NA	<	NA	NA	NA	3.1	0.08	0.002
Benzo(b)fluoranthene	<	<	<	0.04	<	<	<	<	<	<	<	<	NA	NA	<	NA	NA	NA	1.8	0.1	0.002
Benzo(k)fluoranthene	<	<	<	<	<	<	<	<	<	<	<	<	NA	NA	<	NA	NA	NA	0.4	0.04	0.002
Benzo(g,h,i)perylene	<	<	<	0.03	<	<	<	0.02	<	<	<	<	NA	NA	<	NA	NA	NA	1.3	0.03	NL
Benzo(a)pyrene	<	<	<	0.05	<	<	<	<	<	<	<	<	NA	NA	<	NA	NA	NA	2.5	0.07	ND
Carbazole	<	<	<	<	<	1.3	<	<	<	4.7 J	<	<	NA	NA	3.4	NA	NA	NA	4.3	<	NL
Chrysene	<	<	<	0.04	<	<	<	<	<	<	<	<	NA	NA	<	NA	NA	NA	2.2	0.06	0.002
Dibenzo(a,h)anthracene	<	<	<	<	<	<	<	0.02	<	<	<	<	NA	NA	<	NA	NA	NA	0.29	0.02	NL
Dibenzofuran	<	<	<	<	<	2.3	<	<	<	7.1 J	<	<	NA	NA	4.4	NA	NA	NA	6.7	<	NL
Dimethylphthalate	2.1 J	2.2 J	2.8 J	<	3.6 J	<	2.2 J	<	<	3.8 J	<	<	NA	NA	<	NA	NA	NA	<	<	50
Bis(2-ethylhexyl)phthalate	<	<	<	<	<	2	<	<	<	<	<	<	NA	NA	<	NA	NA	NA	4	1.7	5.0
Fluoranthene	<	<	<	0.15	<	0.1	<	<	<	<	<	<	NA	NA	1.3	NA	NA	NA	7.8	0.1	50
Fluorene	<	<	<	0.74	8.5 J	14	<	0.04	<	23.9	<	<	NA	NA	28	NA	NA	NA	43	0.02	50
Indeno(1,2,3-cd)pyrene	<	<	<	<	<	<	<	<	<	<	<		NA	NA	<	NA	NA	NA	0.87	0.04	0.002
2-Methylnaphthalene	<	<	<	11	2.2 J	<	<	0.05	<	450 E	650 D	650 D	NA	NA	540	NA	NA	NA	590	0.07	NL
1,4-Dioxane	12.9 JQ	<	47.4 JQ	NA	2.6 JQ	NA	<	<	30.9	49.6 JQ	<	<	<	<	NA	NA	NA	<	<	0.1	NL
Naphthalene	<	<	<	58	<	2.6	<	0.41	<	1,100 E	4,600 ED	4,700 D	NA	NA	4,400 D	NA	NA	NA	4500 D	0.29	10
Pentachlorophenol	<	<	<	<	<	<	<	1.8	<	<	<	<	NA	NA	<	NA	NA	NA		<	1.0
Phenanthrene	<	<	<	1.1	<	9.8	<	0.07	<	23.7	<	<	NA	NA	26	NA	NA	NA	65	0.09	50
Phenol	<	<	<	<	<	20	<		<	<	<	<	NA	NA	1	NA	NA	NA	0.84	<	1.0
Pyrene	<	<	<	0.28	<	0.13	<	0.04	<	<	<	<	NA	NA	2.3	NA	NA	NA	16	0.11	50
1,1-Biphenol	<	<	<	0.86	<	4.8	<		<	46.6	<	<	NA	NA	29	NA	NA	NA	38	<	5
Pesticides (µg/L)																					
alpha-Chlordane	<	<	<	NA	0.0304 JP	NA	<	NA	<	<	<	<	NA	NA	NA	NA	NA	NA	NA	NA	0.05*
gamma-Chlordane	<	<	<	NA	0.0168 J	NA	<	NA	<	<	<	<	NA	NA	NA	NA	NA	NA	NA	NA	0.05*
PCBs (µg/L)																					
PCBs	<	<	<	NA	<	NA	<	NA	<	<	<	<	<	<	NA	<	<	<	NA	NA	NA
Metals (µg/L)																					
Aluminum	137	337	95	NA	496	NA	57.5	NA	101	28.20	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2,000
Antimony	0.73 J	0.88 J	0.84 J	NA	0.74 J	NA	0.59 J	NA	0.61 J	0.73 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.0
Arsenic	5.74	17.6	1.87	NA	0.99 J	NA	0.88 J	NA	0.96 J	0.52 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25
Barium	256	286	383	NA	327	NA	63.1	NA	61.9	488	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1,000
Beryllium	0.15 J	0.15 J	0.24 J	NA	0.19 J	NA	0.15 J	NA	0.12 J	0.12 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.0
Calcium	365,000	255,000	291,000	NA	242,000	NA	121,000	NA	117,000	279,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NL
Chromium	2.04	2.74	1.15 J	NA	2.51	NA	0.78 J	NA	1.63 J	0.74 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50
Cobalt	2.14	1.73	1.69	NA	2.28	NA	0.84 J	NA	1.02	0.47 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5
Copper	8.18	7.61	6.22	NA	8.31	NA	5.29	NA	5.86	4.59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	200
Iron	4,110	11,000	7,550	NA	7,670	NA	2,950	NA	3,410	2,890	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300
Lead	6.16	4.12	0.71 J	NA	3.35	NA	0.39 J	NA	0.51 J	0.12 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	25
Magnesium	80,900	64,600	103,000	NA	51,700	NA	23,000	NA	22,300	74,700	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	35,000
Manganese	6,640	980	1,910	NA	824	NA	1,550	NA	1,530	741	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	300
Nickel	5.18	4.64	3.5	NA	3.33	NA	2.52	NA	3.14	0.26	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	100
Potassium	10,600	11,200	14,200	NA	7,500	NA	4,720	NA	4,710	5,580	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NL
Selenium	<	<	1.52 J	NA	<	NA	6.77	NA	6.79	1.8 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10
Silver	0.18 J	0.23 J	0.26 J	NA	0.2 J	NA	0.18 J	NA	0.17 J	0.24 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50
Sodium	183,000	97,000	154,000	NA	206,000	NA	62,000	NA	61,400	524,000	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20,000
Thallium	<	<	0.14 J	NA	<	NA	<	NA	<	<	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.5
Vanadium	2.04 J	4.34 J	1.62 J	NA	3.47 J	NA	1.01 J	NA	1.19 J	1.05 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	14*
Zinc	27.5	33.3	22.2	NA	23.8	NA	27.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5,000

Table 10
1660 Niagara Street Site
1660 Niagara Street, Buffalo, New York
Remedial Investigation
Supplemental Surface Soil/Fill Sample Results
(Detected Analytes Only)

Sample ID	SPSS-1	SPSS-1	SPSS-2	SPSS-2	Protection of Ecological Resources SCOs	Restricted Residential Use SCOs	Commercial Use SCOs
Depth (inches)	0-2	2-12	0-2	2-12			
Sample Date	1/17/2019	1/17/2019	1/17/2019	1/17/2019			
Volatile Organic Compounds (µg/kg)							
cis-1,2-Dichloroethene	NA	0.72	NA	0.67	NL	59,000	NL
Trichloroethene	NA	0.23	NA	<	200	21,000	200,000
Semi-Volatile Organic Compounds (µg/kg)							
Acenaphthene	57	150	88	27	20,000	100,000	500,000
Acenaphthylene	280	440	150	66	NL	100,000	500,000
Anthracene	210	520	350	77	NL	100,000	500,000
Benzo(a)anthracene	490	740	970	330	NL	1,000	5,600
Benzo(b)fluoranthene	900	1,100	1,600	530	NL	1,000	5,600
Benzo(k)fluoranthene	270	320	470	140	NL	3,900	56,000
Benzo(g,h,i)perylene	550	1,100	830	280	NL	100,000	100,000
Benzo(a)pyrene	620	940	1,000	340	2,600	1,000	1,000
Butylbenzylphthalate	2,600	1,300	3,500	130	NL	NL	NL
Carbazole	110	70	210	41	NL	NL	NL
Chrysene	620	740	1,100	360	NL	3,900	56,000
Dibenzo(a,h)anthracene	110	220	220	76	NL	330	560
Dibenzofuran	56	54	95	77	NL	NL	NL
Di-n-butylphthalate	350	91	370	200	NL	NL	NL
bis(2-Ethylhexyl)phthalate	860	930	900	230	NL	NL	NL
Fluoranthene	1,000	1,400	2,100	590	NL	100,000	500,000
Fluorene	88	150	100	34	30,000	100,000	500,000
Indeno(1,2,3-cd)pyrene	500	1,100	860	280	NL	500	5,600
2-Methylnaphthalene	140	100	180	280	NL	NL	NL
Naphthalene	130	64	180	160	NL	100,000	500,000
Pentachlorophenol	<	260	<	<	NL	NL	6,700
Phenanthrene	750	860	1,300	410	NL	100,000	500,000
Phenol	260	75	310	<	NL	NL	500,000
Pyrene	1,200	1,200	1,700	520	NL	100,000	500,000
Biphenyl	<	<	<	48	NL	NL	NL
Acetophenone	500	170	650	30	NL	NL	NL
3-Methylphenol/4-Methylphenol	47	<	58	<	NL	NL	NL
Benzaldehyde	730	120	870	62	NL	NL	NL
Metals (mg/kg)							
Aluminum	8,000	6,340	11,800	15,000	NL	NL	NL
Antimony	6.07	1.26	4.32	1.40	NL	NL	NL
Arsenic	9.87	4.67	**16.1**	12	13	16	16
Barium	260	100	267	183	433	400	400
Beryllium	1.19	0.632	1.47	2.27	10	72	590
Cadmium	**7.55**	1.54	**4.8**	1.20	4.0	4.3	9.3
Calcium	47,500	171,000	54,500	86,600	NL	NL	NL
Hexavalent chromium	**48.6**	16.2	**238**	12.1	1	110	*400/1,500
Trivalent chromium					41	180	*400/1,500
Cobalt	7.26	4.2	11.4	4	NL	NL	NL
Copper	**143**	47.2	**205**	**98**	50	270	270
Iron	42,600	15,100	35,900	9,500	NL	NL	NL
Lead	**739**	**170**	**907**	**145**	63	400	1,000
Magnesium	9,780	9,700	10,500	8,040	NL	NL	NL
Manganese	672	421	1,260	1,380	1,600	2,000	10,000
Mercury	**0.192**	0.137	**1.07**	**1.05**	0.18	0.81	2.8
Nickel	**33.2**	14.1	**39.6**	10.0	30	310	310
Potassium	977	752	1,170	1,280	NL	NL	NL
Selenium	2.79	1.05	3.33	1.46	3.9	180	1,500
Silver	<	<	0.383	0.618	2	180	1,500
Sodium	381	250	508	680	NL	NL	NL
Vanadium	11.3	10.7	13.8	8.60	NL	NL	NL
Zinc	**993**	**412**	**718**	**376**	109	10,000	100,000

Restricted Residential Use SCOs = NYSDEC Part 375 Restricted Residential Use Soil Cleanup Objectives (SCOs), Table 375-6.8(b) (December 2006)

Protection of Ecological Resources SCOs = Protection of Ecological Resources SCOs, Table 375-6.8(b) (December 2006)

Commercial Use SCOs = NYSDEC Part 375 Commercial Use SCOs, Table 375-6.8(b) (December 2006)

< = Not Detected

NL = Not listed

NA = Not analyzed

µg/kg = Micrograms per kilogram

mg/kg = Milligrams per kilogram

Concentrations in gray exceed the NYSDEC Part 375 Restricted Residential Use SCOS

Concentrations in **bold** exceed the Protection of Ecological Resources SCOs

Concentrations underlined exceed the NYSDEC Part 375 Commercial Use SCOS

FORMER BUFFALO GAS LIGHT/
IROQUOIS GAS CORPORATION
SITE NO. 915351

2022 GEI CONSULTANTS
DRAFT SITE CHARACTERIZATION REPORT

Table 5A. Land Subsurface Soil Boring Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

						Task Description	Former Buffalo Gas Light Area						Lower Scajaquada Creek Area																	
						Sample Name	MW-BGL-1/16-20		MW-BGL-DUP		MW-BGL-3/17-19		MW-LSC-1/13-15		MW-LSC-1/22-24		MW-LSC-2/18-20		MW-LSC-3/11-12		MW-LSC-3/22-24		MW-LSC-4/20-22		MW-LSC-4/24-28		MW-LSC-5 (18-22)		MW-LSC-5 (26-30)	
						Start Depth	16		16		17		13		22		18		11		22		20		24		18		26	
						End Depth	20		20		19		15		24		20		12		24		22		28		22		30	
						Depth Unit	ft		ft		ft		ft		ft		ft		ft		ft		ft		ft		ft		ft	
						Sample Date	11/11/2021		11/11/2021		11/9/2021		11/3/2021		11/3/2021		11/4/2021		11/8/2021		11/8/2021		11/5/2021		11/5/2021		1/4/2022		1/4/2022	
						Parent Sample			MW-BGL-1/16-20																					
Analyte	**Units**	**CAS No.**	**375-6.8(a) Unrestricted SCO**	**375-6.8(b) Restricted-Residential SCO**	**375-6.8(b) Protection of Eco Resources SCO**	**NY CP-51 RESTRICTED USE ECO SSCO**																								
VOCs (SW 8260C)	ug/kg																													
Acetone		67-64-1	50	100000	2200	NE	8.8	UJ	10	UJ	11	UJ	11	UJ	11	UJ	**31**		770	UJ	**81**	J	**47**		**28**	J	**130**	J	1,200	UJ
Benzene		71-43-2	60	4800	70000	NE	0.44	U	0.5	U	0.55	U	0.56	UJ	0.54	UJ	0.54	U	**540**		0.61	U	**21**		**1,400**		**1.1**	J	**200**	
Bromochloromethane		74-97-5	NE	NE	NE	NE	1.8	UJ	2	U	2.2	U	2.2	UJ	2.2	UJ	2.2	U	150	U	2.4	U	3.2	U	2	UJ	5.4	U	240	U
Bromodichloromethane		75-27-4	NE	NE	NE	NE	0.44	U	0.5	U	0.55	U	0.56	UJ	0.54	UJ	0.54	U	38	U	0.61	U	0.81	U	0.51	UJ	1.4	U	61	U
Bromoform		75-25-2	NE	NE	NE	NE	3.5	UJ	4	U	4.4	UJ	4.5	UJ	4.3	UJ	4.3	UJ	310	U	4.9	U	6.4	U	4.1	UJ	11	U	490	U
Bromomethane		74-83-9	NE	NE	NE	NE	1.8	U	2	U	2.2	U	2.2	UJ	2.2	UJ	2.2	UJ	150	UJ	2.4	UJ	3.2	U	2	UJ	5.4	U	240	U
Carbon disulfide		75-15-0	NE	NE	NE	NE	8.8	U	10	U	**9.2**	J	11	UJ	11	UJ	11	U	770	UJ	12	UJ	**24**		**16**	J	**24**	J	1,200	UJ
Carbon tetrachloride		56-23-5	760	2400	NE	NE	0.88	U	1	U	1.1	U	1.1	UJ	1.1	UJ	1.1	U	77	U	1.2	U	1.6	U	1	UJ	2.7	U	120	U
Chlorobenzene		108-90-7	1100	100000	40000	NE	0.44	UJ	0.5	U	0.55	U	0.56	UJ	0.54	UJ	0.54	U	38	U	0.61	U	0.81	U	0.51	UJ	1.4	U	61	U
Chloroethane		75-00-3	NE	NE	NE	NE	1.8	U	2	U	2.2	U	2.2	UJ	2.2	UJ	2.2	UJ	150	UJ	2.4	UJ	3.2	U	2	UJ	5.4	U	240	U
Chloroform (Trichloromethane)		67-66-3	370	49000	12000	NE	1.3	U	1.5	U	1.6	U	1.7	UJ	1.6	UJ	1.6	U	120	U	1.8	U	2.4	U	1.5	UJ	4	U	180	U
Chloromethane		74-87-3	NE	NE	NE	NE	3.5	U	4	U	4.4	U	4.5	UJ	4.3	UJ	4.3	U	310	U	4.9	U	6.4	U	4.1	UJ	11	U	490	U
Cyclohexane		110-82-7	NE	NE	NE	NE	8.8	U	10	U	11	U	11	UJ	11	UJ	11	U	770	U	12	U	16	U	**1.4**	J	27	U	1,200	U
1,2-Dibromo-3-chloropropane		96-12-8	NE	NE	NE	NE	2.6	UJ	3	U	3.3	UJ	3.4	UJ	3.2	UJ	3.2	U	230	U	3.7	U	4.8	U	3.1	UJ	8.1	UJ	360	UJ
Dibromochloromethane		124-48-1	NE	NE	NE	10000	0.88	U	1	U	1.1	U	1.1	UJ	1.1	UJ	1.1	U	77	U	1.2	U	1.6	U	1	UJ	2.7	U	120	U
1,2-Dibromoethane (EDB)		106-93-4	NE	NE	NE	NE	0.88	UJ	1	U	1.1	U	1.1	UJ	1.1	UJ	1.1	UJ	77	U	1.2	U	1.6	U	1	UJ	2.7	U	120	U
1,2-Dichlorobenzene (o-DCB)		95-50-1	1100	100000	NE	NE	1.8	UJ	2	U	2.2	U	2.2	UJ	2.2	UJ	2.2	U	150	U	2.4	U	3.2	U	2	UJ	5.4	U	240	U
1,3-Dichlorobenzene (m-DCB)		541-73-1	2400	49000	NE	NE	1.8	UJ	2	U	2.2	U	2.2	UJ	2.2	UJ	2.2	U	150	U	2.4	U	3.2	U	2	UJ	5.4	U	240	U
1,4-Dichlorobenzene (p-DCB)		106-46-7	1800	13000	20000	NE	1.8	UJ	2	U	2.2	U	2.2	UJ	2.2	UJ	2.2	U	150	U	2.4	U	3.2	U	**0.32**	J	5.4	U	240	U
Dichlorodifluoromethane (Freon 12)		75-71-8	NE	NE	NE	NE	8.8	U	10	U	11	UJ	11	UJ	11	UJ	11	U	770	UJ	12	UJ	16	U	10	UJ	27	UJ	1,200	UJ
1,1-Dichloroethane		75-34-3	270	26000	NE	NE	0.88	U	1	U	1.1	U	1.1	UJ	1.1	UJ	1.1	U	77	U	1.2	U	1.6	U	1	UJ	2.7	U	120	U
1,2-Dichloroethane		107-06-2	20	3100	10000	NE	0.88	U	1	U	1.1	U	1.1	UJ	1.1	UJ	1.1	U	77	U	1.2	U	1.6	U	1	UJ	2.7	U	120	U
1,1-Dichloroethene		75-35-4	330	100000	NE	NE	0.88	U	1	U	1.1	U	1.1	UJ	1.1	UJ	1.1	U	77	U	1.2	U	1.6	U	1	UJ	2.7	U	120	U
cis-1,2-Dichloroethene		156-59-2	250	100000	NE	NE	0.88	U	1	U	1.1	U	1.1	UJ	1.1	UJ	1.1	U	77	U	1.2	U	**0.5**	J	**0.31**	J	2.7	U	120	U
trans-1,2-Dichloroethene		156-60-5	190	100000	NE	NE	1.3	U	1.5	U	1.6	U	1.7	UJ	1.6	UJ	1.6	U	120	U	1.8	U	2.4	U	1.5	UJ	4	U	180	U
1,2-Dichloropropane		78-87-5	NE	NE	NE	700000	0.88	U	1	U	1.1	U	1.1	UJ	1.1	UJ	1.1	U	77	U	1.2	U	1.6	U	1	UJ	2.7	U	120	U
cis-1,3-Dichloropropene		10061-01-5	NE	NE	NE	NE	0.44	U	0.5	U	0.55	U	0.56	UJ	0.54	UJ	0.54	U	38	U	0.61	U	0.81	U	0.51	UJ	1.4	U	61	U
trans-1,3-Dichloropropene		10061-02-6	NE	NE	NE	NE	0.88	UJ	1	U	1.1	U	1.1	UJ	1.1	UJ	1.1	U	77	U	1.2	U	1.6	U	1	UJ	2.7	U	120	U
1,4-Dioxane		123-91-1	100	13000	100	NE		R		R		R		R		R		R		R		R		R		R		R		R
Ethylbenzene		100-41-4	1000	41000	NE	NE	0.88	U	1	U	**0.51**	J	1.1	UJ	1.1	UJ	1.1	U	**12,000**		1.2	U	**0.5**	J	**37,000**		2.7	U	**5,200**	
2-Hexanone		591-78-6	NE	NE	NE	NE	8.8	UJ	10	U	11	U	11	UJ	11	UJ	11	UJ	770	U	12	U	16	U	10	UJ	27	U	1,200	U
Isopropylbenzene		98-82-8	NE	NE	NE	NE	0.88	U	1	U	**1**	J	1.1	UJ	1.1	UJ	1.1	U	**950**		1.2	U	1.6	U	**1,900**		2.7	U	**1,600**	
Methyl acetate		79-20-9	NE	NE	NE	NE	3.5	U	4	U	4.4	U	4.5	UJ	4.3	UJ	4.3	U	**280**	J	4.9	U	6.4	UJ	4.1	UJ	11	U	490	U
Methyl ethyl ketone (2-Butanone)		78-93-3	120	100000	100000	NE	8.8	UJ	10	U	11	U	11	UJ	11	UJ	11	U	770	U	**15**		**8.7**	J	10	UJ	**28**	J	1,200	UJ
Methyl tert-butyl ether (MTBE)		1634-04-4	930	100000	NE	NE	1.8	U	2	U	2.2	U	2.2	UJ	2.2	UJ	2.2	UJ	150	UJ	2.4	UJ	3.2	U	2	UJ	5.4	U	240	U
4-Methyl-2-pentanone (MIBK)		108-10-1	NE	NE	NE	NE	8.8	UJ	10	U	11	U	11	UJ	11	UJ	11	U	770	U	12	U	16	U	10	UJ	27	U	1,200	U
Methylcyclohexane		108-87-2	NE	NE	NE	NE	3.5	U	4	U	**1.4**	J	4.5	UJ	4.3	UJ	4.3	U	**78**	J	4.9	U	6.4	U	**10**	J	11	U	490	U
Methylene chloride		75-09-2	50	100000	12000	NE	4.4	U	5	U	5.5	UJ	5.6	UJ	5.4	UJ	5.4	U	380	UJ	6.1	UJ	8.1	U	5.1	UJ	14	U	610	U
Styrene		100-42-5	NE	NE	NE	300000	0.88	UJ	1	U	1.1	U	1.1	UJ	1.1	UJ	1.1	U	**150**		1.2	U	1.6	U	**420**		2.7	U	120	U
1,1,2,2-Tetrachloroethane		79-34-5	NE	NE	NE	NE	0.44	UJ	0.5	U	0.55	U	0.56	UJ	0.54	UJ	0.54	U	38	UJ	0.61	UJ	0.81	U	0.51	UJ	1.4	U	61	U
Tetrachloroethene (PCE)		127-18-4	1300	19000	2000	NE	0.44	U	0.5	U	0.55	U	0.56	UJ	0.54	UJ	0.54	U	**78**		0.61	U	0.81	U	0.51	UJ	1.4	U	61	U
Toluene		108-88-3	700	100000	36000	NE	0.88	U	1	U	1.1	U	1.1	UJ	1.1	UJ	1.1	U	**1,600**	J	1.2	UJ	1.6	U	**4,100**		2.7	U	120	U
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		76-13-1	NE	NE	NE	NE	3.5	U	4	U	4.4	U	4.5	UJ	4.3	UJ	4.3	U	310	U	4.9	U	6.4	U	4.1	UJ	11	U	490	U
1,2,3-Trichlorobenzene		87-61-6	NE	NE	NE	20000	1.8	UJ	2	U	2.2	U	2.2	UJ	2.2	UJ	2.2	U	150	U	2.4	U	3.2	U	2	UJ	5.4	UJ	240	UJ
1,2,4-Trichlorobenzene		120-82-1	NE	NE	NE	20000	1.8	UJ	2	U	2.2	U	2.2	UJ	2.2	UJ	2.2	U	150	U	2.4	U	3.2	U	2	UJ	5.4	U	240	U
1,1,1-Trichloroethane (TCA)		71-55-6	680	100000	NE	NE	0.44	U	0.5	U	0.55	U	0.56	UJ	0.54	UJ	0.54	U	38	U	0.61	U	0.81	U	0.51	UJ	1.4	U	61	U
1,1,2-Trichloroethane		79-00-5	NE	NE	NE	NE	0.88	UJ	1	U	1.1	U	1.1	UJ	1.1	UJ	1.1	U	77	U	1.2	U	1.6	U	1	UJ	2.7	U	120	U
Trichloroethene (TCE)		79-01-6	470	21000	2000	NE	0.44	U	0.5	U	0.55	U	0.56	UJ	0.54	UJ	0.54	U	38	U	0.61	U	0.81	U	0.51	UJ	1.4	U	61	U
Trichlorofluoromethane (Freon 11)		75-69-4	NE	NE	NE	NE	3.5	U	4	U	4.4	U	4.5	UJ	4.3	UJ	4.3	U	310	U	4.9	U	6.4	U	4.1	UJ	11	U	490	U

Table 5A. Land Subsurface Soil Boring Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

						Task Description	Former Buffalo Gas Light Area						Lower Scajaquada Creek Area																	
						Sample Name	MW-BGL-1/16-20		MW-BGL-DUP		MW-BGL-3/17-19		MW-LSC-1/13-15		MW-LSC-1/22-24		MW-LSC-2/18-20		MW-LSC-3/11-12		MW-LSC-3/22-24		MW-LSC-4/20-22		MW-LSC-4/24-28		MW-LSC-5 (18-22)		MW-LSC-5 (26-30)	
						Start Depth	16		16		17		13		22		18		11		22		20		24		18		26	
						End Depth	20		20		19		15		24		20		12		24		22		28		22		30	
						Depth Unit	ft		ft		ft		ft		ft		ft		ft		ft		ft		ft		ft		ft	
						Sample Date	11/11/2021		11/11/2021		11/9/2021		11/3/2021		11/3/2021		11/4/2021		11/8/2021		11/8/2021		11/5/2021		11/5/2021		1/4/2022		1/4/2022	
						Parent Sample			MW-BGL-1/16-20																					
Analyte	**Units**	**CAS No.**	**375-6.8(a) Unrestricted SCO**	**375-6.8(b) Restricted-Residential SCO**	**375-6.8(b) Protection of Eco Resources SCO**	**NY CP-51 RESTRICTED USE ECO SSCO**																								
Vinyl chloride		75-01-4	20	900	NE	NE	0.88	U	1	U	1.1	U	1.1	UJ	1.1	UJ	1.1	U	77	U	1.2	U	1.6	U	1	UJ	2.7	U	120	U
o-Xylene		95-47-6	260	100000	260	NE	0.88	U	1	U	**0.74**	**J**	1.1	UJ	1.1	UJ	1.1	U	**3,100**		1.2	U	1.6	U	**10,000**		2.7	U	**1,800**	
m/p-Xylene		179601-23-1	260	100000	260	NE	1.8	U	2	U	**1.6**	**J**	2.2	UJ	2.2	UJ	2.2	U	**7,100**		2.4	U	3.2	U	**20,000**		5.4	U	**1,200**	
SVOCs (SW 8270D)	ug/kg																													
Acenaphthene		83-32-9	20000	100000	20000	NE	160	U	170	U	150	U	520	U	160	U	190	U	**11,000**		**260**		**320**		**31,000**		240	U	**2,300**	
Acenaphthylene		208-96-8	100000	100000	NE	NE	160	U	170	U	150	U	520	U	160	U	190	U	**3,700**		**55**	**J**	230	U	**91,000**		240	U	210	U
Acetophenone		98-86-2	NE	NE	NE	NE	200	U	210	U	190	U	650	U	200	U	240	U	2,200	U	260	U	280	U	4,600	U	300	U	260	U
Anthracene		120-12-7	100000	100000	NE	NE	120	U	120	U	110	U	390	U	120	U	140	U	**7,000**		**340**		**830**		**56,000**		180	U	**140**	**J**
Atrazine		1912-24-9	NE	NE	NE	NE	160	U	170	U	150	U	520	U	160	U	190	U	1,700	U	210	U	230	U	3,600	U	240	U	210	U
Benzaldehyde		100-52-7	NE	NE	NE	NE	260	U	270	U	250	U	850	U	260	U	310	U	2,900	U	350	U	380	U	6,000	U	390	U	340	U
Benzo(a)anthracene		56-55-3	1000	1000	NE	NE	120	U	120	U	110	U	390	U	120	U	140	U	**3,700**		**480**		**160**	**J**	**29,000**		180	U	160	U
Benzo(b)fluoranthene		205-99-2	1000	1000	NE	NE	120	U	120	U	110	U	390	U	120	U	140	U	**2,300**		**390**		**120**	**J**	**18,000**		180	U	160	U
Benzo(k)fluoranthene		207-08-9	800	3900	NE	NE	120	U	120	U	110	U	390	U	120	U	140	U	**820**	**J**	**180**		170	U	**5,300**		180	U	160	U
Benzo(g,h,i)perylene		191-24-2	100000	100000	NE	NE	160	U	170	U	150	U	520	U	160	U	190	U	**1,400**	**J**	**160**	**J**	**160**	**J**	**9,800**		240	U	210	U
Benzo(a)pyrene		50-32-8	1000	1000	2600	NE	160	U	170	U	150	U	520	U	160	U	190	U	**3,200**		**340**		**130**	**J**	**26,000**		240	U	210	U
Biphenyl (1,1-Biphenyl)		92-52-4	NE	NE	NE	60000	450	U	470	U	430	U	1,500	U	450	U	540	U	**4,000**	**J**	600	U	**100**	**J**	**37,000**		680	U	**260**	**J**
Bis(2-chloroethoxy)methane		111-91-1	NE	NE	NE	NE	220	U	220	U	200	U	700	U	210	U	260	U	2,300	U	280	U	310	U	4,900	U	320	U	280	U
Bis(2-chloroethyl)ether		111-44-4	NE	NE	NE	NE	180	U	190	U	170	U	580	U	180	U	210	U	2,000	U	240	U	260	U	4,100	U	270	U	230	U
2,2-oxybis(1-Chloropropane)		108-60-1	NE	NE	NE	NE	240	UJ	250	UJ	230	UJ	780	UJ	240	UJ	280	U	2,600	UJ	320	UJ	340	UJ	5,500	UJ	360	U	310	U
Bis(2-ethylhexyl)phthalate		117-81-7	NE	NE	NE	239000	200	UJ	210	UJ	190	U	650	U	200	U	240	U	2,200	U	260	U	280	U	4,600	U	300	U	260	U
4-Bromophenyl phenyl ether		101-55-3	NE	NE	NE	NE	200	U	210	U	190	U	650	U	200	U	240	U	2,200	U	260	U	280	U	4,600	U	300	U	260	U
Butyl benzyl phthalate		85-68-7	NE	NE	NE	NE	200	UJ	210	UJ	190	U	650	U	200	U	240	U	2,200	U	260	U	280	U	4,600	U	300	U	260	U
Caprolactam		105-60-2	NE	NE	NE	NE	200	UJ	210	UJ	190	U	650	U	200	U	240	U	2,200	U	260	U	280	U	4,600	UJ	300	U	260	U
Carbazole		86-74-8	NE	NE	NE	NE	200	U	210	U	190	U	650	U	200	U	240	U	2,200	U	260	U	280	U	**540**	**J**	300	U	**38**	**J**
4-Chloro-3-methylphenol		59-50-7	NE	NE	NE	NE	200	U	210	U	190	U	650	U	200	U	240	U	2,200	U	260	U	280	U	4,600	U	300	U	260	U
4-Chloroaniline		106-47-8	NE	NE	NE	NE	200	UJ	210	UJ	190	U	650	UJ	200	UJ	240	U	2,200	U	260	U	280	U	4,600	U	300	UJ	260	UJ
2-Chloronaphthalene		91-58-7	NE	NE	NE	NE	200	U	210	U	190	U	650	U	200	U	240	U	2,200	U	260	U	280	U	4,600	U	300	U	260	U
2-Chlorophenol		95-57-8	NE	NE	NE	800	200	U	210	U	190	U	650	U	200	U	240	U	2,200	U	260	U	280	U	4,600	U	300	U	260	U
4-Chlorophenyl phenyl ether		7005-72-3	NE	NE	NE	NE	200	U	210	U	190	U	650	U	200	U	240	U	2,200	U	260	U	280	U	4,600	U	300	U	260	U
Chrysene		218-01-9	1000	3900	NE	NE	120	U	120	U	110	U	390	U	120	U	140	U	**3,300**		**400**		**210**		**22,000**		180	U	160	U
Dibenz(a,h)anthracene		53-70-3	330	330	NE	NE	120	U	120	U	110	U	390	U	120	U	140	U	**350**	**J**	**54**	**J**	170	U	**2,000**	**J**	180	U	160	U
Dibenzofuran		132-64-9	7000	59000	NE	NE	200	U	210	U	190	U	650	U	200	U	240	U	**1,400**	**J**	**130**	**J**	280	U	**8,900**		300	U	**140**	**J**
3,3-Dichlorobenzidine		91-94-1	NE	NE	NE	NE	200	U	210	U	190	U	650	U	200	U	240	U	2,200	U	260	U	280	U	4,600	U	300	UJ	260	UJ
2,4-Dichlorophenol		120-83-2	NE	NE	NE	20000	180	U	190	U	170	U	580	U	180	U	210	U	2,000	U	240	U	260	U	4,100	U	270	U	230	U
Diethyl phthalate		84-66-2	NE	NE	NE	100000	200	U	210	U	190	U	650	U	200	U	240	U	2,200	U	260	U	280	U	4,600	U	300	U	260	U
Dimethyl phthalate		131-11-3	NE	NE	NE	200000	200	U	210	U	190	U	650	U	200	U	240	U	2,200	U	260	U	280	U	4,600	U	300	U	260	U
2,4-Dimethylphenol		105-67-9	NE	NE	NE	NE	200	U	210	U	190	U	650	U	200	U	240	U	2,200	U	260	U	280	U	4,600	U	300	U	260	U
Di-n-butyl phthalate		84-74-2	NE	NE	NE	14	200	U	210	U	190	U	650	U	200	U	240	U	2,200	U	260	U	280	U	4,600	U	300	U	260	U
4,6-Dinitro-2-methylphenol		534-52-1	NE	NE	NE	NE	520	UJ	540	UJ	490	R	1,700	U	510	U	620	UJ	5,600	U	680	U	740	U	12,000	U	780	UJ	680	UJ
2,4-Dinitrophenol		51-28-5	NE	NE	NE	20000	960	UJ	1000	UJ	910	U	3,100	U	940	U	1,100	UJ	10,000	R	1,300	R	1,400	UJ	22,000	U	1,400	UJ	1,200	UJ
2,4-Dinitrotoluene		121-14-2	NE	NE	NE	NE	200	U	210	U	190	U	650	U	200	U	240	U	2,200	U	260	U	280	U	4,600	U	300	U	260	U
2,6-Dinitrotoluene		606-20-2	NE	NE	NE	NE	200	U	210	U	190	U	650	U	200	U	240	U	2,200	U	260	U	280	U	4,600	U	300	U	260	U
Di-n-octyl phthalate		117-84-0	NE	NE	NE	NE	200	UJ	210	UJ	190	UJ	650	U	200	U	240	U	2,200	U	260	U	280	U	4,600	U	300	U	260	U
Fluoranthene		206-44-0	100000	100000	NE	NE	120	U	120	U	110	U	390	U	120	U	140	U	**6,600**		**1000**		**490**		**52,000**		180	U	**33**	**J**
Fluorene		86-73-7	30000	100000	30000	NE	200	U	210	U	190	U	650	U	200	U	240	U	**5,800**		**300**		**810**		**53,000**		300	U	**500**	
Hexachlorobenzene		118-74-1	330	1200	NE	NE	120	U	120	U	110	U	390	U	120	U	140	U	1,300	U	160	U	170	U	2,700	U	180	U	160	U
1,3-Hexachlorobutadiene (C-46)		87-68-3	NE	NE	NE	NE	200	U	210	U	190	U	650	U	200	U	240	U	2,200	U	260	U	280	U	4,600	U	300	U	260	U
Hexachlorocyclopentadiene		77-47-4	NE	NE	NE	10000	570	U	590	U	540	UJ	1,800	U	560	U	680	U	6,200	U	750	U	820	U	13,000	U	850	U	740	U
Hexachloroethane		67-72-1	NE	NE	NE	NE	160	U	170	U	150	U	520	U	160	U	190	U	1,700	U	210	U	230	U	3,600	U	240	U	210	U
Indeno(1,2,3-cd)pyrene		193-39-5	500	500	NE	NE	160	U	170	U	150	U	520	U	160	U	190	U	**1,300**	**J**	**190**	**J**	**78**	**J**	**9,000**		240	U	210	U

Table 5A. Land Subsurface Soil Boring Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

						Task Description	Former Buffalo Gas Light Area						Lower Scajaquada Creek Area																	
						Sample Name	MW-BGL-1/16-20		MW-BGL-DUP		MW-BGL-3/17-19		MW-LSC-1/13-15		MW-LSC-1/22-24		MW-LSC-2/18-20		MW-LSC-3/11-12		MW-LSC-3/22-24		MW-LSC-4/20-22		MW-LSC-4/24-28		MW-LSC-5 (18-22)		MW-LSC-5 (26-30)	
						Start Depth	16		16		17		13		22		18		11		22		20		24		18		26	
						End Depth	20		20		19		15		24		20		12		24		22		28		22		30	
						Depth Unit	ft		ft		ft		ft		ft		ft		ft		ft		ft		ft		ft		ft	
						Sample Date	11/11/2021		11/11/2021		11/9/2021		11/3/2021		11/3/2021		11/4/2021		11/8/2021		11/8/2021		11/5/2021		11/5/2021		1/4/2022		1/4/2022	
						Parent Sample			MW-BGL-1/16-20																					
Analyte	**Units**	**CAS No.**	**375-6.8(a) Unrestricted SCO**	**375-6.8(b) Restricted-Residential SCO**	**375-6.8(b) Protection of Eco Resources SCO**	**NY CP-51 RESTRICTED USE ECO SSCO**																								
Isophorone		78-59-1	NE	NE	NE	NE	180	U	190	U	170	U	580	U	180	U	210	U	2,000	U	240	U	260	U	4,100	U	270	U	230	U
2-Methylnaphthalene		91-57-6	NE	NE	NE	NE	240	U	250	U	**64**	**J**	780	U	240	U	280	U	**31,000**		**140**	**J**	**970**		**300,000**		360	U	**5,200**	
2-Methylphenol (o-Cresol)		95-48-7	330	100000	NE	NE	200	U	210	U	190	U	650	U	200	U	240	U	2,200	U	260	U	280	U	4,600	U	300	U	260	U
3,4-Methylphenol (m,p-Cresol)		108394/106445	NE	NE	NE	NE	290	U	300	U	270	U	930	U	280	U	340	U	3,100	U	**86**	**J**	410	U	6,600	U	430	U	380	U
Naphthalene		91-20-3	12000	100000	NE	NE	200	U	210	U	**25**	**J**	650	U	200	U	240	U	**43,000**		**200**	**J**	**490**		**510,000**		300	U	**2,600**	
2-Nitroaniline		88-74-4	NE	NE	NE	NE	200	UJ	210	UJ	190	U	650	U	200	U	240	U	2,200	U	260	U	280	U	4,600	U	300	U	260	U
3-Nitroaniline		99-09-2	NE	NE	NE	NE	200	U	210	U	190	U	650	U	200	U	240	U	2,200	U	260	U	280	U	4,600	U	300	U	260	U
4-Nitroaniline		100-01-6	NE	NE	NE	NE	200	U	210	U	190	U	650	U	200	U	240	U	2,200	U	260	U	280	U	4,600	U	300	U	260	U
Nitrobenzene		98-95-3	NE	NE	NE	40000	180	U	190	U	170	U	580	U	180	U	210	U	2,000	U	240	U	260	U	4,100	U	270	U	230	U
2-Nitrophenol		88-75-5	NE	NE	NE	7000	430	UJ	450	UJ	410	U	1,400	U	420	U	510	U	4,700	U	570	U	620	U	9,800	U	640	UJ	560	UJ
4-Nitrophenol		100-02-7	NE	NE	NE	7000	280	U	290	U	260	U	900	U	270	U	330	U	3,000	U	370	U	400	U	6,400	U	420	U	360	U
N-Nitrosodiphenylamine (NDFA)		86-30-6	NE	NE	NE	20000	160	U	170	U	150	U	520	U	160	U	190	U	1,700	U	210	U	230	U	3,600	U	240	U	210	U
N-Nitrosodi-n-propylamine (NDPA)		621-64-7	NE	NE	NE	NE	200	U	210	U	190	U	650	U	200	U	240	U	2,200	U	260	U	280	U	4,600	U	300	U	260	U
Pentachlorophenol		87-86-5	800	6700	800	NE	160	U	170	U	150	U	520	U	160	U	190	U	1,700	U	210	U	230	U	3,600	U	240	U	210	U
Phenanthrene		85-01-8	100000	100000	NE	NE	120	U	120	U	110	U	390	U	120	U	140	U	**22,000**		**920**		**2,400**		**200,000**		180	U	**720**	
Phenol		108-95-2	330	100000	30000	NE	200	U	210	U	190	U	650	U	200	U	240	U	2,200	U	260	U	280	U	4,600	U	300	U	260	U
Pyrene		129-00-0	100000	100000	NE	NE	120	U	120	U	110	U	390	U	120	U	140	U	**12,000**		**750**		**1,800**		**110,000**		180	U	**52**	**J**
1,2,4,5-Tetrachlorobenzene		95-94-3	NE	NE	NE	NE	200	U	210	U	190	U	650	U	200	U	240	U	2,200	U	260	U	280	U	4,600	U	300	U	260	U
2,3,4,6-Tetrachlorophenol		58-90-2	NE	NE	NE	NE	200	U	210	U	190	U	650	U	200	U	240	U	2,200	U	260	U	280	U	4,600	U	300	U	260	U
2,4,5-Trichlorophenol		95-95-4	NE	NE	NE	4000	200	U	210	U	190	U	650	U	200	U	240	U	2,200	U	260	U	280	U	4,600	U	300	U	260	U
2,4,6-Trichlorophenol		88-06-2	NE	NE	NE	NE	120	U	120	U	110	U	390	U	120	U	140	U	1,300	U	160	U	170	U	2,700	U	180	U	160	U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	NE	NE	NE	ND		ND		**89**		ND		ND		ND		**158,470**		**6,159**		**8,968**		**1,524,100**		ND		**11,545**	
PESTICIDES (SW 8081B)	ug/kg																													
Aldrin		309-00-2	5	97	140	NE	1.89	U	1.9	U	1.8	R	2.15	U	1.86	U	2.24	U	10	UJ	24.1	UJ	13.6	U	10.8	U	2.92	U	2.43	U
alpha-BHC (Hexachlorocyclohexane)		319-84-6	20	480	40	NE	0.788	U	0.792	U	0.749	R	0.896	U	0.777	U	0.932	U	4.19	UJ	10	UJ	5.67	U	4.49	U	1.22	U	1.01	U
beta-BHC (beta-Hexachlorocyclohexane)		319-85-7	36	360	600	NE	1.89	U	1.9	U	1.8	R	2.15	U	1.86	U	2.24	U	10	UJ	24.1	UJ	13.6	U	10.8	U	2.92	U	2.43	U
gamma-BHC (gamma-Hexachlorocyclohexane) (		58-89-9	100	1300	6000	NE	0.788	U	0.792	U	0.749	R	0.896	U	0.777	U	0.932	U	4.19	UJ	10	UJ	5.67	U	4.49	U	1.22	U	1.01	U
delta-BHC (delta-Hexachlorocyclohexane)		319-86-8	40	100000	40	NE	1.89	U	1.9	U	1.8	R	2.15	U	1.86	U	2.24	U	10	UJ	24.1	UJ	13.6	U	10.8	U	2.92	U	2.43	U
Chlordane (Technical)		12789-03-6	NE	NE	NE	NE	15.8	U	15.8	U	15	R	17.9	U	15.5	U	18.6	U	83.8	UJ	200	UJ	113	U	89.9	U	24.3	U	20.2	U
alpha-chlordane		5103-71-9	94	4200	1300	NE	2.36	U	2.38	U	2.25	R	2.69	U	2.33	U	2.8	U	12.6	UJ	30.1	UJ	17	U	13.5	U	3.65	U	3.04	U
gamma-Chlordane		5103-74-2	NE	NE	NE	NE	2.36	U	2.38	U	2.25	R	2.69	U	2.33	U	2.8	U	12.6	UJ	30.1	UJ	17	U	13.5	U	3.65	U	3.04	U
4,4'-DDT (p,p'-DDT)		50-29-3	3.3	7900	3.3	NE	3.55	U	3.56	U	**15.3**	**J**	4.03	U	3.5	U	4.19	U	18.8	UJ	45.1	UJ	25.5	U	20.2	U	5.47	U	4.56	U
4,4'-DDE (p,p'-DDE)		72-55-9	3.3	8900	3.3	NE	1.89	U	1.9	U	1.8	R	2.15	U	1.86	U	2.24	U	10	UJ	24.1	UJ	13.6	U	10.8	U	2.92	U	2.43	U
4,4'-DDD (p,p-DDD)		72-54-8	3.3	13000	3.3	NE	1.89	U	1.9	U	1.8	R	2.15	U	1.86	U	2.24	U	10	UJ	24.1	UJ	13.6	U	10.8	U	2.92	U	2.43	U
Dieldrin		60-57-1	5	200	6	NE	1.18	U	1.19	U	1.12	R	1.34	U	1.16	U	1.4	U	6.28	UJ	15	UJ	8.5	U	6.74	U	1.82	U	1.52	U
alpha-Endosulfan (I)		959-98-8	2400	24000	NE	NE	1.89	U	1.9	U	1.8	R	2.15	U	1.86	U	2.24	U	10	UJ	24.1	UJ	13.6	U	10.8	U	2.92	U	2.43	U
beta-Endosulfan (II)		33213-65-9	2400	24000	NE	NE	1.89	U	1.9	U	1.8	R	2.15	U	1.86	U	2.24	U	10	UJ	24.1	UJ	13.6	U	10.8	U	2.92	U	2.43	U
Endosulfan sulfate		1031-07-8	2400	24000	NE	NE	0.788	U	0.792	U	0.749	R	0.896	U	0.777	U	0.932	U	4.19	UJ	10	UJ	**7.06**	**J**	4.49	U	1.22	U	1.01	U
Endrin		72-20-8	14	11000	14	NE	0.788	U	0.792	U	0.749	R	0.896	U	0.777	U	0.932	U	4.19	UJ	10	UJ	5.67	U	4.49	U	1.22	U	1.01	U
Endrin aldehyde		7421-93-4	NE	NE	NE	NE	2.36	U	2.38	U	2.25	R	2.69	U	2.33	U	2.8	U	12.6	UJ	30.1	UJ	17	U	13.5	U	3.65	U	3.04	U
Endrin ketone		53494-70-5	NE	NE	NE	NE	1.89	U	1.9	U	1.8	R	2.15	U	1.86	U	2.24	U	10	UJ	24.1	UJ	13.6	U	10.8	U	2.92	U	2.43	U
Heptachlor		76-44-8	42	2100	140	NE	0.946	U	0.95	U	0.899	R	1.07	U	0.932	U	1.12	U	5.03	UJ	12	UJ	6.8	U	5.39	U	1.46	U	1.22	U
Heptachlor epoxide		1024-57-3	NE	NE	NE	NE	3.55	U	3.56	U	3.37	R	4.03	U	3.5	U	4.19	U	18.8	UJ	45.1	UJ	25.5	U	20.2	U	5.47	U	4.56	U
Methoxychlor		72-43-5	NE	NE	NE	1200	3.55	UJ	3.56	UJ	3.37	R	4.03	U	3.5	U	4.19	UJ	18.8	UJ	45.1	UJ	25.5	U	20.2	U	5.47	U	4.56	U
Toxaphene		8001-35-2	NE	NE	NE	NE	35.5	U	35.6	U	33.7	R	40.3	U	35	U	41.9	U	188	UJ	451	UJ	255	U	202	U	54.7	U	45.6	U
PCBs (SW 8082A)	ug/kg																													
Aroclor 1016		12674-11-2	NE	NE	NE	NE	39.9	U	40.6	U	38.8	UJ	43.3	UJ	38.7	UJ	47.3	U	41.6	UJ	52.9	U	57.3	U	44.5	U	59.4	U	51.3	U
Aroclor 1221		11104-28-2	NE	NE	NE	NE	39.9	U	40.6	U	38.8	UJ	43.3	UJ	38.7	UJ	47.3	U	41.6	UJ	52.9	U	57.3	U	44.5	U	59.4	U	51.3	U
Aroclor 1232		11141-16-5	NE	NE	NE	NE	39.9	U	40.6	U	38.8	UJ	43.3	UJ	38.7	UJ	47.3	U	41.6	UJ	52.9	U	57.3	U	44.5	U	59.4	U	51.3	U
Aroclor 1242		53469-21-9	NE	NE	NE	NE	39.9	U	40.6	U	38.8	UJ	43.3	UJ	38.7	UJ	47.3	U	41.6	UJ	52.9	U	57.3	U	44.5	U	59.4	U	51.3	U

Table 5A. Land Subsurface Soil Boring Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

						Task Description	Former Buffalo Gas Light Area						Lower Scajaquada Creek Area																	
						Sample Name	MW-BGL-1/16-20		MW-BGL-DUP		MW-BGL-3/17-19		MW-LSC-1/13-15		MW-LSC-1/22-24		MW-LSC-2/18-20		MW-LSC-3/11-12		MW-LSC-3/22-24		MW-LSC-4/20-22		MW-LSC-4/24-28		MW-LSC-5 (18-22)		MW-LSC-5 (26-30)	
						Start Depth	16		16		17		13		22		18		11		22		20		24		18		26	
						End Depth	20		20		19		15		24		20		12		24		22		28		22		30	
						Depth Unit	ft		ft		ft		ft		ft		ft		ft		ft		ft		ft		ft		ft	
						Sample Date	11/11/2021		11/11/2021		11/9/2021		11/3/2021		11/3/2021		11/4/2021		11/8/2021		11/8/2021		11/5/2021		11/5/2021		1/4/2022		1/4/2022	
						Parent Sample			MW-BGL-1/16-20																					
Analyte	**Units**	**CAS No.**	**375-6.8(a) Unrestricted SCO**	**375-6.8(b) Restricted-Residential SCO**	**375-6.8(b) Protection of Eco Resources SCO**	**NY CP-51 RESTRICTED USE ECO SSCO**																								
Aroclor 1248		12672-29-6	NE	NE	NE	NE	39.9	U	40.6	U	38.8	UJ	43.3	UJ	38.7	UJ	47.3	U	41.6	UJ	52.9	U	57.3	U	44.5	U	59.4	U	51.3	U
Aroclor 1254		11097-69-1	NE	NE	NE	NE	39.9	U	40.6	U	**65.9**	**J**	43.3	UJ	38.7	UJ	47.3	U	**7.38**	**J**	52.9	U	57.3	U	44.5	U	59.4	U	51.3	U
Aroclor 1260		11096-82-5	NE	NE	NE	NE	39.9	U	40.6	U	38.8	UJ	43.3	UJ	38.7	UJ	47.3	U	41.6	UJ	52.9	U	57.3	U	44.5	U	59.4	U	51.3	U
Aroclor 1262		37324-23-5	NE	NE	NE	NE	39.9	U	40.6	U	38.8	UJ	43.3	UJ	38.7	UJ	47.3	U	41.6	UJ	52.9	U	57.3	U	44.5	U	59.4	U	51.3	U
Aroclor 1268		11100-14-4	NE	NE	NE	NE	39.9	U	40.6	U	38.8	UJ	43.3	UJ	38.7	UJ	47.3	U	41.6	UJ	52.9	U	57.3	U	44.5	U	59.4	U	51.3	U
Total PCBs (Lab calculated)		1336-36-3	100	1000	1000	NE	39.9	U	40.6	U	**65.9**	**J**	43.3	UJ	38.7	UJ	47.3	U	**7.38**	**J**	52.9	U	57.3	U	44.5	U	59.4	U	51.3	U
METALS (SW 6010D/SW 7471B)	mg/kg																													
Aluminum		7429-90-5	NE	NE	NE	10000	**10,800**	**J**	**2,120**	**J**	**14,000**		**1,980**	**J**	**13,000**	**J**	**7,530**	**J**	**4,730**		**8,580**		**3,340**	**J**	**2,890**	**J**	**9,060**		**7,800**	
Antimony		7440-36-0	NE	NE	NE	12	4.73	UJ	**0.785**	**J**	22.7	U	5.18	U	4.57	U	5.55	U	4.92	U	6.39	U	6.46	U	5.28	U	7.08	UJ	5.94	UJ
Arsenic		7440-38-2	13	16	13	NE	**3.72**	**J**	**2.11**	**J**	**6.13**		**16.3**		**4.19**		**3.7**		**5.76**		**6.07**		**1.78**		**7.07**		**4.97**		**6.89**	
Barium		7440-39-3	350	400	433	NE	**106**	**J**	**60.9**	**J**	**126**		**19.3**		**58.4**		**38.7**		**55.5**		**65.2**		**40.6**		**18.3**		**38.3**		**82.2**	
Beryllium		7440-41-7	7.2	72	10	NE	**0.463**	**J**	**0.106**	**J**	**1.72**	**J**	**0.249**	**J**	**0.649**		**0.366**	**J**	**0.335**	**J**	**0.486**	**J**	**0.168**	**J**	**0.137**	**J**	**0.354**	**J**	**0.297**	**J**
Cadmium		7440-43-9	2.5	4.3	4	NE	**0.605**	**J**	**0.823**	**J**	4.54	UJ	**0.539**	**J**	**0.713**	**J**	**0.778**	**J**	**0.374**	**J**	**0.55**	**J**	**0.634**	**J**	**0.401**	**J**	1.42	UJ	1.19	UJ
Calcium		7440-70-2	NE	NE	NE	10000	**32,000**	**J**	**29,100**	**J**	**67,600**		**2,390**	**J**	**41,100**	**J**	**14,500**	**J**	**152,000**		**18,400**		**155,000**		**131,000**		**24,600**		**102,000**	
Chromium		7440-47-3	30	180	41	NE	**17.6**		**22.7**		**17.5**		**9.1**		**19.9**		**11.4**		**7.66**		**17.2**		**6.66**		**6.1**		**12.5**		**12.1**	
Cobalt		7440-48-4	NE	NE	NE	20	**9.7**	**J**	**1.91**	**J**	**8.54**	**J**	**10.3**		**11.2**		**6.86**		**4.13**		**8.86**		**3.26**		**3.05**		**8.33**		**7.23**	
Copper		7440-50-8	50	270	50	NE	**20**	**J**	**39.2**	**J**	**22.2**		**407**		**21.1**		**16.7**		**43**		**61.7**		**6.7**	**J**	**5.17**	**J**	**23.7**		**15.4**	
Iron		7439-89-6	NE	NE	NE	NE	**20,400**	**J**	**7,970**	**J**	**23,700**		**20,400**		**24,800**		**17,800**		**13,800**	**J**	**25,700**	**J**	**17,000**		**12,000**		**23,000**		**16,100**	
Lead		7439-92-1	63	400	63	NE	**9.53**	**J**	**1,920**	**J**	**20.8**	**J**	**15.1**		**10.1**		**8.71**		**43.9**		**126**		**5.04**	**J**	**6.45**	**J**	**10.4**		**11.6**	
Magnesium		7439-95-4	NE	NE	NE	NE	**13,200**	**J**	**5,910**	**J**	**17,300**		**1,240**	**J**	**13,400**	**J**	**6,280**	**J**	**56,900**		**9,040**		**10,400**	**J**	**45,800**	**J**	**8,940**		**34,200**	
Manganese		7439-96-5	1600	2000	1600	NE	**301**	**J**	**123**	**J**	**1,250**		**84.4**		**472**		**203**		**363**		**193**		**270**		**318**		**405**		**451**	
Mercury		7439-97-6	0.18	0.81	0.18	NE	0.079	U	0.079	U	0.073	U	0.086	U	0.077	U	**0.065**	**J**	**0.298**		**0.832**		0.108	U	0.087	U	0.118	U	0.099	U
Nickel		7440-02-0	30	310	30	NE	**23.6**	**J**	**7.01**	**J**	**17.9**		**23.3**		**23.7**		**17.2**		**9.21**		**21.3**		**6.5**		**5.46**		**21.2**		**15.8**	
Potassium		7440-09-7	NE	NE	NE	NE	**1,820**	**J**	**286**	**J**	**1,800**		**468**		**1,570**		**655**		**751**		**698**		**550**		**615**		**698**		**1,390**	
Selenium		7782-49-2	3.9	180	3.9	NE	1.89	U	1.94	U	**1.27**	**J**	2.07	U	**0.256**	**J**	**0.378**	**J**	**0.778**	**J**	**0.805**	**J**	**0.491**	**J**	2.11	U	2.83	U	2.38	U
Silver		7440-22-4	2	180	2	NE	0.946	U	0.969	U	4.54	U	1.04	U	0.915	U	1.11	U	0.984	U	1.28	U	1.29	U	1.06	U	1.42	U	1.19	U
Sodium		7440-23-5	NE	NE	NE	NE	**332**		**148**	**J**	908	U	**316**		**214**		**444**		**357**		**140**	**J**	**712**		**258**		**669**		**408**	
Thallium		7440-28-0	NE	NE	NE	5	1.89	UJ	1.94	UJ	9.08	UJ	2.07	U	**0.485**	**J**	2.22	U	**0.423**	**J**	**0.409**	**J**	**0.569**	**J**	**0.443**	**J**	2.83	U	2.38	U
Vanadium		7440-62-2	NE	NE	NE	39	**22.1**	**J**	**5.89**	**J**	**17.7**	**J**	**20.3**		**26**		**13.6**		**13.1**		**22.8**		**9.23**		**10.2**		**10.1**	**J**	**14.5**	**J**
Zinc		7440-66-6	109	10000	109	NE	**54.2**	**J**	**210**	**J**	**61**		**14.6**		**53.7**		**60.2**		**79.5**	**J**	**128**	**J**	**36.2**		**32.8**		**71.9**		**57**	
HERBICIDES (SW 8151A)	ug/kg																													
2,4-D (2,4-Dichlorophenoxyacetic acid)		94-75-7	NE	NE	NE	NE	202	UJ	203	UJ	190	U	220	U	198	U	234	U	212	U	262	U	282	U	227	U	299	U	261	U
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)		93-76-5	NE	NE	NE	NE	202	U	203	U	190	U	220	U	198	U	234	U	212	U	262	U	282	UJ	227	U	299	UJ	261	UJ
2,4,5-TP (Silvex)		93-72-1	3800	100000	NE	NE	202	U	203	U	190	U	220	U	198	U	234	U	212	U	262	U	282	U	227	U	299	U	261	U
GENERAL CHEMISTRY (SM 2540G)	%																													
Percent Solids		SOLIDS	NE	NE	NE	NE	**81.7**		**79.4**		**85.6**		**73.8**		**83.2**		**69.9**		**76.2**		**62.6**		**58.1**		**72.2**		**54.2**		**63.2**	
CYANIDES (SW 9012B)	mg/kg																													
Total Cyanide		57-12-5	27	27	NE	NE	1.1	UJ	1.2	UJ	**0.29**	**J**	**0.77**	**J**	1.1	UJ	1.3	UJ	**0.65**	**J**	1.6	UJ	1.7	UJ	1.4	UJ	1.8	UJ	1.5	UJ

Table 5A. Land Subsurface Soil Boring Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

Notes:

Depths are measured from ground surface
mg/kg = milligrams/kilogram or parts per million (ppm)
% = Percent
ug/kg = micrograms per kilogram

PAH = Polycyclic Aromatic Hydrocarbon

PCB = Polychlorinated Biphenyl
SVOC = Semi-Volatile Organic Compound
VOC = Volatile Organic Compound

CAS No. = Chemical Abstracts Service Number
ND = Not Detected
NE = Not Established

6 NYCRR = New York State Register and Official Compilation of Codes, Rules and Regulations of the State of New York

Comparison of detected results are performed against one or more of the following NYCRR, Chapter IV, Part 375-6 Soil Cleanup Objectives (SCO)s: Unrestricted Use, Restricted-Residential, Protection of Ecological Resources

Bolding indicates a detected result concentration
Shading and bolding indicates that the detected concentration is above the NYSDOH guidance it was compared to.
Samples collected entirely below 15' bgs are not compared to Table 375-6.8(b) or CP-51 SSCOs.

Validation Qualifiers:

J = The result is an estimated value.
R = The result is rejected.
U = The result was not detected above the reporting limit.
UJ = The results was not detected at or above the reporting limit shown and the reporting limit is estimated.

1,4-Dioxane - Rejected Data

Due to the extremely low calibration response factor for 1,4-dioxane under Method 8260C, this compound is typically rejected during validation as it does not meet the minimal criteria set for accurate quantitation. Non-detect results for 1,4-dioxane are rejected as the presence or absence of the compound cannot be verified. Positive results are estimated due to the high variability inherent in the quantitation when using an extremely low response factor.

Table 5B. Groundwater Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

				Task Description	Former Buffalo Gas Light Area				Lower Scajaquada Creek Area					
				Sample Name	MW-BGL-1		MW-BGL-3		MW-LSC-1		MW-LSC-2		DUP	
				Sample Date	1/19/2022		1/19/2022		1/18/2022		1/18/2022		1/18/2022	
				Parent Sample									MW-LSC-2	
Analyte	**Units**	**CAS No. or Identifier**	**NY AWQS**	**NYSDEC Interim Guidance**										
VOCs (8260C)	ug/L													
Acetone		67-64-1	50*	NE	5	U	**3.2**	**J**	5	UJ	12	UJ	50	UJ
Benzene		71-43-2	1	NE	0.5	U	**0.73**		0.5	U	**540**	**J**	**990**	**J**
Bromochloromethane		74-97-5	5	NE	2.5	U	2.5	U	2.5	U	6.2	U	25	U
Bromodichloromethane		75-27-4	50*	NE	0.5	U	0.5	U	0.5	U	1.2	U	5	U
Bromoform		75-25-2	50*	NE	2	U	2	U	2	UJ	5	UJ	20	UJ
Bromomethane		74-83-9	5	NE	2.5	UJ	2.5	UJ	2.5	UJ	6.2	UJ	25	UJ
Carbon disulfide		75-15-0	60*	NE	5	U	5	U	5	U	12	U	50	U
Carbon tetrachloride		56-23-5	5	NE	0.5	U	0.5	U	0.5	U	1.2	U	5	U
Chlorobenzene		108-90-7	5	NE	2.5	U	2.5	U	2.5	U	6.2	U	25	U
Chloroethane		75-00-3	5	NE	2.5	U	2.5	U	2.5	U	6.2	U	25	U
Chloroform (Trichloromethane)		67-66-3	7	NE	2.5	U	2.5	U	2.5	U	6.2	U	25	U
Chloromethane		74-87-3	5	NE	2.5	U	2.5	U	2.5	UJ	6.2	UJ	25	U
Cyclohexane		110-82-7	NE	NE	10	U	**0.66**	**J**	10	U	25	U	100	U
1,2-Dibromo-3-chloropropane		96-12-8	0.04	NE	2.5	U	2.5	U	2.5	UJ	6.2	UJ	25	UJ
Dibromochloromethane		124-48-1	50*	NE	0.5	U	0.5	U	0.5	U	1.2	U	5	U
1,2-Dibromoethane (EDB)		106-93-4	0.0006	NE	2	U	2	U	2	U	5	U	20	U
1,2-Dichlorobenzene (o-DCB)		95-50-1	3	NE	2.5	U	2.5	U	2.5	U	6.2	U	25	U
1,3-Dichlorobenzene (m-DCB)		541-73-1	3	NE	2.5	U	2.5	U	2.5	U	6.2	U	25	U
1,4-Dichlorobenzene (p-DCB)		106-46-7	3	NE	2.5	U	2.5	U	2.5	U	6.2	U	25	U
Dichlorodifluoromethane (Freon 12)		75-71-8	5	NE	5	UJ	5	UJ	5	UJ	12	UJ	50	UJ
1,1-Dichloroethane		75-34-3	5	NE	2.5	U	2.5	U	2.5	U	6.2	U	25	U
1,2-Dichloroethane		107-06-2	0.6	NE	0.5	U	0.5	U	0.5	U	1.2	U	5	U
1,1-Dichloroethene		75-35-4	5	NE	0.5	U	0.5	U	0.5	U	1.2	U	5	U
cis-1,2-Dichloroethene		156-59-2	5	NE	2.5	U	2.5	U	2.5	U	6.2	U	25	U
trans-1,2-Dichloroethene		156-60-5	5	NE	2.5	U	2.5	U	2.5	U	6.2	U	25	U
1,2-Dichloropropane		78-87-5	1	NE	1	U	1	U	1	U	2.5	U	10	U
cis-1,3-Dichloropropene		10061-01-5	0.4	NE	0.5	U	0.5	U	0.5	U	1.2	U	5	U
trans-1,3-Dichloropropene		10061-02-6	0.4	NE	0.5	U	0.5	U	0.5	U	1.2	U	5	U
Ethylbenzene		100-41-4	5	NE	2.5	U	**2.1**	**J**	2.5	U	**1000**		**990**	
2-Hexanone		591-78-6	50*	NE	5	U	5	U	5	UJ	12	UJ	50	UJ
Isopropylbenzene		98-82-8	5	NE	2.5	U	2.5	U	2.5	U	**26**		**28**	
Methyl acetate		79-20-9	NE	NE	2	U	2	U	2	U	5	U	20	U
Methyl ethyl ketone (2-Butanone)		78-93-3	50*	NE	5	U	5	U	5	U	12	U	50	U
Methyl tert-butyl ether (MTBE)		1634-04-4	10*	NE	2.5	U	2.5	U	2.5	U	6.2	U	25	U
4-Methyl-2-pentanone (MIBK)		108-10-1	NE	NE	5	U	5	U	5	U	12	U	50	UJ
Methylcyclohexane		108-87-2	NE	NE	10	U	10	U	10	UJ	25	UJ	100	UJ
Methylene chloride		75-09-2	5	NE	2.5	U	2.5	U	2.5	UJ	6.2	UJ	25	UJ

Table 5B. Groundwater Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

				Task Description	Former Buffalo Gas Light Area				Lower Scajaquada Creek Area					
				Sample Name	MW-BGL-1		MW-BGL-3		MW-LSC-1		MW-LSC-2		DUP	
				Sample Date	1/19/2022		1/19/2022		1/18/2022		1/18/2022		1/18/2022	
				Parent Sample									MW-LSC-2	
Analyte	**Units**	**CAS No. or Identifier**	**NY AWQS**	**NYSDEC Interim Guidance**										
Styrene		100-42-5	5	NE	2.5	U	2.5	U	2.5	U	**7.1**		25	U
1,1,2,2-Tetrachloroethane		79-34-5	5	NE	0.5	U	0.5	U	0.5	U	1.2	U	5	UJ
Tetrachloroethene (PCE)		127-18-4	5	NE	0.5	U	0.5	U	0.5	U	1.2	U	5	U
Toluene		108-88-3	5	NE	2.5	U	2.5	U	2.5	U	**560**	**J**	**420**	**J**
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		76-13-1	5	NE	2.5	U	2.5	U	2.5	U	6.2	U	25	U
1,2,3-Trichlorobenzene		87-61-6	5	NE	2.5	U	2.5	U	2.5	U	6.2	U	25	UJ
1,2,4-Trichlorobenzene		120-82-1	5	NE	2.5	U	2.5	U	2.5	U	6.2	U	25	UJ
1,1,1-Trichloroethane (TCA)		71-55-6	5	NE	2.5	U	2.5	U	2.5	U	6.2	U	25	U
1,1,2-Trichloroethane		79-00-5	1	NE	1.5	U	1.5	U	1.5	U	3.8	U	15	U
Trichloroethene (TCE)		79-01-6	5	NE	0.5	U	0.5	U	0.5	U	1.2	U	5	U
Trichlorofluoromethane (Freon 11)		75-69-4	5	NE	2.5	U	2.5	U	2.5	UJ	6.2	UJ	25	UJ
Vinyl chloride		75-01-4	2	NE	1	U	1	U	1	U	**0.52**	**J**	10	U
o-Xylene		95-47-6	5	NE	2.5	U	**0.74**	**J**	2.5	U	**240**		**220**	
m/p-Xylene		179601-23-1	5	NE	2.5	U	**1.2**	**J**	2.5	U	**500**		**420**	
SVOCs (8270D or DSIM)	ug/L													
Acenaphthene		83-32-9	20*	NE	0.1	U	**0.96**		0.1	U	**58**		**59**	
Acenaphthylene		208-96-8	NE	NE	**0.02**	**J**	**0.58**		0.1	U	**230**		**220**	
Acetophenone		98-86-2	NE	NE	5	U	5	U	5	U	**2.6**	**J**	**2.6**	**J**
Anthracene		120-12-7	50*	NE	0.1	U	**0.18**		0.1	U	**13**		**12**	
Atrazine		1912-24-9	7.5	NE	10	U	10	U	10	U	10	U	10	U
Benzaldehyde		100-52-7	NE	NE	5	U	5	U	5	U	5	U	5	U
Benzo(a)anthracene		56-55-3	0.002*	NE	**0.02**	**J**	**0.04**	**J**	0.1	U	**0.78**	**J**	**0.49**	**J**
Benzo(b)fluoranthene		205-99-2	0.002*	NE	**0.01**	**J**	**0.02**	**J**	0.1	U	**0.39**		**0.21**	
Benzo(k)fluoranthene		207-08-9	0.002*	NE	0.1	U	0.1	U	0.1	U	**0.1**		**0.06**	**J**
Benzo(g,h,i)perylene		191-24-2	NE	NE	0.1	U	**0.02**	**J**	0.1	U	**0.24**		**0.12**	
Benzo(a)pyrene		50-32-8	ND	NE	0.1	U	**0.02**	**J**	0.1	U	**0.59**	**J**	**0.29**	**J**
Biphenyl (1,1-Biphenyl)		92-52-4	5	NE	2	U	2	U	2	U	**54**		**53**	
Bis(2-chloroethoxy)methane		111-91-1	5	NE	5	U	5	U	5	U	5	U	5	U
Bis(2-chloroethyl)ether		111-44-4	1	NE	2	U	2	U	2	U	2	U	2	U
2,2-oxybis(1-Chloropropane)		108-60-1	5	NE	2	U	2	U	2	U	2	U	2	U
Bis(2-ethylhexyl)phthalate		117-81-7	5	NE	3	U	3	U	3	U	3	U	3	U
4-Bromophenyl phenyl ether		101-55-3	NE	NE	2	U	2	U	2	U	2	U	2	U
Butyl benzyl phthalate		85-68-7	50*	NE	5	U	5	U	5	UJ	5	UJ	5	UJ
Caprolactam		105-60-2	NE	NE	10	U	10	U	10	U	10	U	10	U
Carbazole		86-74-8	NE	NE	2	U	**0.76**	**J**	2	UJ	**2.4**	**J**	**2.5**	**J**
4-Chloro-3-methylphenol		59-50-7	NE	NE	2	U	2	U	2	U	2	U	2	U
4-Chloroaniline		106-47-8	5	NE	5	U	5	U	5	UJ	5	UJ	5	UJ
2-Chloronaphthalene		91-58-7	10*	NE	0.2	U	0.2	U	0.2	U	0.2	U	0.2	U

Table 5B. Groundwater Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

				Task Description	Former Buffalo Gas Light Area				Lower Scajaquada Creek Area					
				Sample Name	MW-BGL-1		MW-BGL-3		MW-LSC-1		MW-LSC-2		DUP	
				Sample Date	1/19/2022		1/19/2022		1/18/2022		1/18/2022		1/18/2022	
				Parent Sample									MW-LSC-2	
Analyte	**Units**	**CAS No. or Identifier**	**NY AWQS**	**NYSDEC Interim Guidance**										
2-Chlorophenol		95-57-8	NE	NE	2	U	2	U	2	U	2	U	2	U
4-Chlorophenyl phenyl ether		7005-72-3	NE	NE	2	U	2	U	2	U	2	U	2	U
Chrysene		218-01-9	0.002*	NE	0.1	U	**0.02**	**J**	0.1	U	**0.56**	**J**	**0.34**	**J**
Dibenz(a,h)anthracene		53-70-3	NE	NE	0.1	U	0.1	U	0.1	U	**0.05**	**J**	**0.03**	**J**
Dibenzofuran		132-64-9	NE	NE	2	U	2	U	2	U	**8.4**		**8.2**	
3,3-Dichlorobenzidine		91-94-1	5	NE	5	U	5	U	5	UJ	5	UJ	5	UJ
2,4-Dichlorophenol		120-83-2	5	NE	5	U	5	U	5	U	5	U	5	U
Diethyl phthalate		84-66-2	50*	NE	5	U	5	U	5	U	5	U	5	U
Dimethyl phthalate		131-11-3	50*	NE	5	U	5	U	5	U	5	U	5	U
2,4-Dimethylphenol		105-67-9	50*	NE	5	U	5	U	5	UJ	5	UJ	5	UJ
Di-n-butyl phthalate		84-74-2	50	NE	5	U	5	U	5	U	5	U	5	U
4,6-Dinitro-2-methylphenol		534-52-1	NE	NE	10	U	10	U	10	U	10	U	10	U
2,4-Dinitrophenol		51-28-5	10*	NE	20	U	20	U	20	U	20	U	20	U
2,4-Dinitrotoluene		121-14-2	5	NE	5	U	5	U	5	U	5	U	5	U
2,6-Dinitrotoluene		606-20-2	5	NE	5	U	5	U	5	U	5	U	5	U
Di-n-octyl phthalate		117-84-0	50*	NE	5	U	5	U	5	U	5	U	5	U
1,4-Dioxane		123-91-1	NE	0.35	0.144	U	**0.285**		0.15	U	**0.0798**	**J**	**0.065**	**J**
Fluoranthene		206-44-0	50*	NE	0.1	U	**0.18**	**J**	0.1	U	**4.5**		**4.1**	
Fluorene		86-73-7	50*	NE	0.1	U	**0.79**		0.1	U	**45**		**44**	
Hexachlorobenzene		118-74-1	0.04	NE	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
1,3-Hexachlorobutadiene (C-46)		87-68-3	0.5	NE	0.5	U	0.5	U	0.5	U	0.5	U	0.5	U
Hexachlorocyclopentadiene		77-47-4	5	NE	20	U	20	U	20	U	20	U	20	U
Hexachloroethane		67-72-1	5	NE	0.8	U	0.8	U	0.8	U	0.8	U	0.8	U
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	NE	0.1	U	**0.02**	**J**	0.1	U	**0.24**		**0.13**	
Isophorone		78-59-1	50*	NE	5	U	5	U	5	U	5	U	5	U
2-Methylnaphthalene		91-57-6	NE	NE	0.1	U	**4.9**		0.1	U	**960**		**960**	
2-Methylphenol (o-Cresol)		95-48-7	1	NE	5	U	**0.81**	**J**	5	U	**0.73**	**J**	**0.74**	**J**
3,4-Methylphenol (m,p-Cresol)		108394/106445	NE	NE	5	U	**1.4**	**J**	5	U	**1.2**	**J**	**1.1**	**J**
Naphthalene		91-20-3	10*	NE	0.1	U	**15**		0.1	U	**3,900**		**3,800**	
2-Nitroaniline		88-74-4	5	NE	5	U	5	U	5	U	5	U	5	U
3-Nitroaniline		99-09-2	5	NE	5	U	5	U	5	U	5	U	5	U
4-Nitroaniline		100-01-6	5	NE	5	U	5	U	5	U	5	U	5	U
Nitrobenzene		98-95-3	0.4	NE	2	U	2	U	2	UJ	2	UJ	2	UJ
2-Nitrophenol		88-75-5	NE	NE	10	U	10	U	10	UJ	10	UJ	10	UJ
4-Nitrophenol		100-02-7	NE	NE	10	U	10	U	10	U	10	U	10	U
N-Nitrosodiphenylamine (NDFA)		86-30-6	50*	NE	2	U	2	U	2	U	2	U	2	U
N-Nitrosodi-n-propylamine (NDPA)		621-64-7	NE	NE	5	U	5	U	5	U	5	U	5	U
Pentachlorophenol		87-86-5	1	NE	0.8	UJ	0.8	UJ	0.8	U	**0.17**	**J**	**0.16**	**J**

Table 5B. Groundwater Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

				Task Description	Former Buffalo Gas Light Area				Lower Scajaquada Creek Area					
				Sample Name	MW-BGL-1		MW-BGL-3		MW-LSC-1		MW-LSC-2		DUP	
				Sample Date	1/19/2022		1/19/2022		1/18/2022		1/18/2022		1/18/2022	
				Parent Sample									MW-LSC-2	
Analyte	**Units**	**CAS No. or Identifier**	**NY AWQS**	**NYSDEC Interim Guidance**										
Phenanthrene		85-01-8	50*	NE	0.1	U	**1**		0.1	U	**64**		**61**	
Phenol		108-95-2	1	NE	5	U	5	U	5	U	**3.3**	**J**	**4.4**	**J**
Pyrene		129-00-0	50*	NE	**0.03**	**J**	**0.23**		0.1	U	**8.2**		**7.3**	
1,2,4,5-Tetrachlorobenzene		95-94-3	5	NE	10	U	10	U	10	U	10	U	10	U
2,3,4,6-Tetrachlorophenol		58-90-2	NE	NE	5	U	5	U	5	U	5	U	5	U
2,4,5-Trichlorophenol		95-95-4	NE	NE	5	U	5	U	5	U	5	U	5	U
2,4,6-Trichlorophenol		88-06-2	NE	NE	5	U	5	U	5	U	5	U	5	U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	NE	**0.08**		**24**		ND		**5,286**		**5,169**	
CYANIDES (9012B)	mg/L													
Total Cyanide		57-12-5	0.2	NE	0.005	UJ	**2.57**	**J**	0.005	U	0.005	U	**0.002**	**J**
METALS (6020B/7470A)	mg/L													
Aluminum		7429-90-5	NE	NE	**0.106**		**0.0736**		0.01	U	**0.0373**	**J**	**0.0262**	**J**
Antimony		7440-36-0	0.003	NE	0.004	U	**0.00107**	**J**	0.004	U	0.004	U	0.004	U
Arsenic		7440-38-2	0.025	NE	**0.00143**		**0.01161**		**0.00064**		**0.00074**		**0.00071**	
Barium		7440-39-3	1	NE	**0.03388**	**J**	**0.1054**	**J**	**0.03948**		**0.324**		**0.4215**	
Beryllium		7440-41-7	0.003*	NE	0.0005	U	0.0005	U	0.0005	U	0.0005	U	0.0005	U
Cadmium		7440-43-9	0.005	NE	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U
Calcium		7440-70-2	NE	NE	**306**		**989**		**106**		**164**		**159**	
Chromium		7440-47-3	0.05	NE	**0.00083**	**J**	**0.00093**	**J**	0.001	U	0.001	U	0.001	U
Cobalt		7440-48-4	NE	NE	**0.00335**	**J**	**0.00112**	**J**	**0.00046**	**J**	0.0005	U	0.0005	U
Copper		7440-50-8	0.2	NE	**0.00227**		**0.00238**		**0.00176**		0.001	U	0.001	U
Iron		7439-89-6	0.3	NE	**0.13**	**J**	**1.57**		**0.0648**	**J**	**3.97**		**3.62**	
Lead		7439-92-1	0.025	NE	**0.00036**	**J**	**0.00111**		0.001	U	0.001	U	0.001	U
Magnesium		7439-95-4	35*	NE	**1,070**		**41.3**		**58.1**		**37.8**		**37.5**	
Manganese		7439-96-5	0.3	NE	**0.1111**	**J**	**0.4066**		**0.3172**		**0.2505**		**0.2419**	
Mercury		7439-97-6	0.0007	NE	0.0002	U	0.0002	U	0.0002	U	0.0002	U	0.0002	U
Nickel		7440-02-0	0.1	NE	**0.00441**	**J**	**0.00159**	**J**	**0.00245**		0.002	U	0.002	U
Potassium		7440-09-7	NE	NE	**57.5**		**45.1**		**6.52**		**11.6**		**11**	
Selenium		7782-49-2	0.01	NE	0.005	U	0.005	U	**0.00199**	**J**	0.005	U	0.005	U
Silver		7440-22-4	0.05	NE	0.0004	U	0.0004	U	0.0004	U	0.0004	U	0.0004	U
Sodium		7440-23-5	20	NE	**465**		**1,860**		**216**		**968**		**969**	
Thallium		7440-28-0	0.0005*	NE	0.001	U	0.001	U	0.001	U	0.001	U	0.001	U
Vanadium		7440-62-2	NE	NE	**0.00299**	**J**	**0.00235**	**J**	**0.0017**	**J**	0.005	U	0.005	U
Zinc		7440-66-6	2*	NE	0.01032	U	0.01	U	0.01	U	0.01	U	0.01	U
PESTICIDES (8081B)	ug/L													
Aldrin		309-00-2	ND	NE	0.014	UJ	0.014	UJ	0.014	UJ	0.014	UJ	0.014	UJ
alpha-BHC (Hexachlorocyclohexane)		319-84-6	0.01	NE	0.014	UJ	0.014	UJ	0.014	UJ	0.014	UJ	0.014	UJ
beta-BHC (beta-Hexachlorocyclohexane)		319-85-7	0.04	NE	0.014	U	0.014	U	0.014	U	0.014	U	0.014	U

Table 5B. Groundwater Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

				Task Description	Former Buffalo Gas Light Area				Lower Scajaquada Creek Area					
				Sample Name	MW-BGL-1		MW-BGL-3		MW-LSC-1		MW-LSC-2		DUP	
				Sample Date	1/19/2022		1/19/2022		1/18/2022		1/18/2022		1/18/2022	
				Parent Sample									MW-LSC-2	
Analyte	**Units**	**CAS No. or Identifier**	**NY AWQS**	**NYSDEC Interim Guidance**										
gamma-BHC (gamma-Hexachlorocyclohexane) (Lindane)		58-89-9	0.05	NE	0.014	UJ	0.014	UJ	0.014	UJ	0.014	UJ	0.014	UJ
delta-BHC (delta-Hexachlorocyclohexane)		319-86-8	0.04	NE	0.014	UJ	0.014	UJ	0.014	UJ	0.014	UJ	0.014	UJ
Chlordane (Technical)		12789-03-6	NE	NE	0.143	UJ	0.143	UJ	0.143	UJ	0.143	UJ	0.143	UJ
alpha-chlordane		5103-71-9	NE	NE	0.014	UJ	0.014	UJ	0.014	U	0.014	U	0.014	U
gamma-Chlordane		5103-74-2	NE	NE	0.014	UJ	0.014	UJ	0.014	U	0.014	U	0.014	U
2,4-D (2,4-Dichlorophenoxyacetic acid)		94-75-7	50	NE										
4,4'-DDT (p,p'-DDT)		50-29-3	0.2	NE	0.029	UJ	0.029	UJ	0.029	UJ	0.029	UJ	0.029	UJ
4,4'-DDE (p,p'-DDE)		72-55-9	0.2	NE	0.029	UJ	0.029	UJ	0.029	UJ	0.029	UJ	0.029	UJ
4,4'-DDD (p,p-DDD)		72-54-8	0.3	NE	0.029	UJ	0.029	UJ	0.029	UJ	0.029	UJ	0.029	UJ
Dieldrin		60-57-1	0.004	NE	0.029	UJ	0.029	UJ	0.029	UJ	0.029	UJ	0.029	UJ
alpha-Endosulfan (I)		959-98-8	NE	NE	0.014	UJ	0.014	UJ	0.014	UJ	0.014	UJ	0.014	UJ
beta-Endosulfan (II)		33213-65-9	NE	NE	0.029	UJ	0.029	UJ	0.029	UJ	0.029	UJ	0.029	UJ
Endosulfan sulfate		1031-07-8	NE	NE	0.029	UJ	0.029	UJ	0.029	UJ	0.029	UJ	0.029	UJ
Endrin		72-20-8	ND	NE	0.029	UJ	0.029	UJ	0.029	UJ	0.029	UJ	0.029	UJ
Endrin aldehyde		7421-93-4	5	NE	0.029	U	0.029	U	0.029	U	0.029	U	0.029	U
Endrin ketone		53494-70-5	5	NE	0.029	UJ	0.029	UJ	0.029	UJ	0.029	UJ	0.029	UJ
Heptachlor		76-44-8	0.04	NE	0.014	UJ	0.014	UJ	0.014	UJ	0.014	UJ	0.014	UJ
Heptachlor epoxide		1024-57-3	0.03	NE	0.014	UJ	0.014	UJ	0.014	UJ	0.014	UJ	0.014	UJ
Methoxychlor		72-43-5	35	NE	0.143	UJ	0.143	UJ	0.143	UJ	0.143	UJ	0.143	UJ
2,4,5-TP (Silvex)		93-72-1	0.26	NE										
Toxaphene		8001-35-2	0.06	NE	0.143	UJ	0.143	UJ	0.143	UJ	0.143	UJ	0.143	UJ
HERBICIDES (8151A)	ug/L													
2,4-D (2,4-Dichlorophenoxyacetic acid)		94-75-7	50	NE	10	U	10	U	10	U	10	U	10	U
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)		93-76-5	35	NE	2	U	2	U	2	UJ	2	UJ	2	UJ
2,4,5-TP (Silvex)		93-72-1	0.26	NE	2	U	2	U	2	U	2	U	2	U
PCBs (8082A)	ug/L													
Aroclor 1016		12674-11-2	NE	NE	0.071	UJ	0.071	UJ	0.071	UJ	0.071	UJ	0.071	UJ
Aroclor 1221		11104-28-2	NE	NE	0.071	UJ	0.071	UJ	0.071	UJ	0.071	UJ	0.071	UJ
Aroclor 1232		11141-16-5	NE	NE	0.071	UJ	0.071	UJ	0.071	UJ	0.071	UJ	0.071	UJ
Aroclor 1242		53469-21-9	NE	NE	0.071	UJ	0.071	UJ	0.071	UJ	0.071	UJ	0.071	UJ
Aroclor 1248		12672-29-6	NE	NE	0.071	UJ	0.071	UJ	0.071	UJ	0.071	UJ	0.071	UJ
Aroclor 1254		11097-69-1	NE	NE	0.071	UJ	0.071	UJ	0.071	UJ	0.071	UJ	0.071	UJ
Aroclor 1260		11096-82-5	NE	NE	0.071	UJ	0.071	UJ	0.071	UJ	0.071	UJ	0.071	UJ
Aroclor 1262		37324-23-5	NE	NE	0.071	UJ	0.071	UJ	0.071	UJ	0.071	UJ	0.071	UJ
Aroclor 1268		11100-14-4	NE	NE	0.071	UJ	0.071	UJ	0.071	UJ	0.071	UJ	0.071	UJ
Total PCBs (Lab calculated)		1336-36-3	0.09	NE	0.071	UJ	0.071	UJ	0.071	UJ	0.071	UJ	0.071	UJ
PFAS (LCMSMS-ID)	ng/L													

Table 5B. Groundwater Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

				Task Description	Former Buffalo Gas Light Area				Lower Scajaquada Creek Area					
				Sample Name	MW-BGL-1		MW-BGL-3		MW-LSC-1		MW-LSC-2		DUP	
				Sample Date	1/19/2022		1/19/2022		1/18/2022		1/18/2022		1/18/2022	
				Parent Sample									MW-LSC-2	
Analyte	**Units**	**CAS No. or Identifier**	**NY AWQS**	**NYSDEC Interim Guidance**										
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		2991-50-6	NE	NE	1.9	U	2.02	U	1.78	U	1.79	U		
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		2355-31-9	NE	NE	1.9	U	2.02	U	1.78	U	1.79	U		
Perfluorobutanesulfonic acid (PFBS)		375-73-5	NE	NE	1.9	U	**1.6**	**J**	1.78	U	**1.31**	**J**		
Perfluorobutanoic acid (PFBA)		375-22-4	NE	NE	1.9	U	2.02	U	1.78	U	**15.6**			
Perfluorodecanesulfonic acid (PFDS)		335-77-3	NE	NE	1.9	UJ	2.02	UJ	1.78	UJ	1.79	UJ		
Perfluorodecanoic acid (PFDA)		335-76-2	NE	NE	1.9	U	2.02	U	1.78	U	1.79	U		
Perfluorododecanoic acid (PFDoA)		307-55-1	NE	NE	1.9	U	2.02	U	1.78	U	1.79	U		
Perfluoroheptanesulfonic acid (PFHpS)		375-92-8	NE	NE	1.9	U	2.02	U	1.78	U	1.79	U		
Perfluoroheptanoic acid (PFHpA)		375-85-9	NE	NE	**0.668**	**J**	**5.66**	**J**	1.78	U	**9.74**			
Perfluorohexanoic acid (PFHxA)		307-24-4	NE	NE	**1.69**	**J**	**3.39**		1.78	U	**17.9**			
Perfluorooctanesulfonamide (FOSA)		754-91-6	NE	NE	1.9	U	2.02	U	1.78	U	1.79	U		
Perfluoropentanoic Acid (PFPeA)		2706-90-3	NE	NE	**1.97**	**J**	**31.9**		1.78	U	**34.8**			
Perfluorotetradecanoic acid (PFTA/PFTeDA)		376-06-7	NE	NE	1.9	U	2.02	U	1.78	U	1.79	U		
Perfluorotridecanoic acid (PFTriA/PFTrDA)		72629-94-8	NE	NE	1.9	U	**0.391**	**J**	1.78	U	1.79	U		
Perfluoroundecanoic acid (PFUnA)		2058-94-8	NE	NE	1.9	U	2.02	U	1.78	U	1.79	U		
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2)		39108-34-4	NE	NE	1.9	UJ	2.02	UJ	1.78	UJ	1.79	UJ		
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)		27619-97-2	NE	NE	1.9	U	2.02	U	1.78	U	**1.44**	**J**		
Perfluorohexanesulfonic acid (PFHxS)		355-46-4	NE	NE	1.9	U	2.02	U	1.78	U	**2.1**			
Perfluorononanoic Acid (PFNA)		375-95-1	NE	NE	1.9	U	2.02	U	1.78	U	1.79	U		
Perfluorooctanesulfonic acid (PFOS)		1763-23-1	NE	10	1.9	U	2.02	U	1.78	U	**1.56**	**J**		
Perfluorooctanoic Acid (PFOA)		335-67-1	NE	10	**1.4**	**J**	**2.1**		1.78	U	**6.65**			
Total PFAS (ND=0)		TPFAS_ND0	NE	NE	**5.728**		**45.041**		ND		**91.1**			

Table 5B. Groundwater Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

				Task Description	Lower Scajaquada Creek Area									
				Sample Name	MW-LSC-3		MW-LSC-4		MW-LSC-5		DUP		BSA-MH-WATER	
				Sample Date	1/18/2022		1/19/2022		1/19/2022		1/19/2022		11/18/2021	
				Parent Sample							MW-LSC-5			
Analyte	**Units**	**CAS No. or Identifier**	**NY AWQS**	**NYSDEC Interim Guidance**										
VOCs (8260C)	ug/L													
Acetone		67-64-1	50*	NE	5	UJ	120	U	25	U			50	U
Benzene		71-43-2	1	NE	**4.5**		**560**		**420**				**130**	
Bromochloromethane		74-97-5	5	NE	2.5	U	62	U	12	U			25	U
Bromodichloromethane		75-27-4	50*	NE	0.5	U	12	U	2.5	U			5	U
Bromoform		75-25-2	50*	NE	2	UJ	50	U	10	U			20	U
Bromomethane		74-83-9	5	NE	2.5	UJ	62	UJ	12	UJ			25	UJ
Carbon disulfide		75-15-0	60*	NE	5	U	120	U	25	U			50	U
Carbon tetrachloride		56-23-5	5	NE	0.5	U	12	U	2.5	U			5	U
Chlorobenzene		108-90-7	5	NE	2.5	U	62	U	12	U			25	U
Chloroethane		75-00-3	5	NE	2.5	U	62	U	12	U			**60**	**J**
Chloroform (Trichloromethane)		67-66-3	7	NE	2.5	U	62	U	12	U			25	U
Chloromethane		74-87-3	5	NE	2.5	UJ	62	U	12	U			25	U
Cyclohexane		110-82-7	NE	NE	10	U	250	U	50	U			100	U
1,2-Dibromo-3-chloropropane		96-12-8	0.04	NE	2.5	UJ	62	U	12	U			25	U
Dibromochloromethane		124-48-1	50*	NE	0.5	U	12	U	2.5	U			5	U
1,2-Dibromoethane (EDB)		106-93-4	0.0006	NE	2	U	50	U	10	U			20	U
1,2-Dichlorobenzene (o-DCB)		95-50-1	3	NE	2.5	U	62	U	12	U			25	U
1,3-Dichlorobenzene (m-DCB)		541-73-1	3	NE	2.5	U	62	U	12	U			25	U
1,4-Dichlorobenzene (p-DCB)		106-46-7	3	NE	2.5	U	62	U	12	U			25	U
Dichlorodifluoromethane (Freon 12)		75-71-8	5	NE	5	UJ	120	UJ	25	UJ			50	U
1,1-Dichloroethane		75-34-3	5	NE	2.5	U	62	U	12	U			**140**	
1,2-Dichloroethane		107-06-2	0.6	NE	0.5	U	12	U	2.5	U			5	U
1,1-Dichloroethene		75-35-4	5	NE	0.5	U	12	U	2.5	U			**8.8**	
cis-1,2-Dichloroethene		156-59-2	5	NE	2.5	U	62	U	12	U			**1,700**	
trans-1,2-Dichloroethene		156-60-5	5	NE	2.5	U	62	U	12	U			25	U
1,2-Dichloropropane		78-87-5	1	NE	1	U	25	U	5	U			10	U
cis-1,3-Dichloropropene		10061-01-5	0.4	NE	0.5	U	12	U	2.5	U			5	U
trans-1,3-Dichloropropene		10061-02-6	0.4	NE	0.5	U	12	U	2.5	U			5	U
Ethylbenzene		100-41-4	5	NE	**13**		**3,300**		**400**				**180**	
2-Hexanone		591-78-6	50*	NE	5	UJ	120	U	25	U			50	UJ
Isopropylbenzene		98-82-8	5	NE	**0.76**	**J**	**64**		**64**				25	U
Methyl acetate		79-20-9	NE	NE	2	U	50	U	10	U			20	UJ
Methyl ethyl ketone (2-Butanone)		78-93-3	50*	NE	5	U	120	U	25	U			50	U
Methyl tert-butyl ether (MTBE)		1634-04-4	10*	NE	2.5	U	62	U	12	U			25	U
4-Methyl-2-pentanone (MIBK)		108-10-1	NE	NE	5	U	120	U	25	U			50	U
Methylcyclohexane		108-87-2	NE	NE	10	UJ	250	U	50	U			100	U
Methylene chloride		75-09-2	5	NE	2.5	UJ	62	U	12	U			25	U

Table 5B. Groundwater Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

				Task Description	Lower Scajaquada Creek Area									
				Sample Name	MW-LSC-3		MW-LSC-4		MW-LSC-5		DUP		BSA-MH-WATER	
				Sample Date	1/18/2022		1/19/2022		1/19/2022		1/19/2022		11/18/2021	
				Parent Sample							MW-LSC-5			
Analyte	**Units**	**CAS No. or Identifier**	**NY AWQS**	**NYSDEC Interim Guidance**										
Styrene		100-42-5	5	NE	2.5	U	**30**	**J**	12	U			25	U
1,1,2,2-Tetrachloroethane		79-34-5	5	NE	0.5	U	12	U	2.5	U			5	U
Tetrachloroethene (PCE)		127-18-4	5	NE	0.5	U	12	U	2.5	U			5	U
Toluene		108-88-3	5	NE	**2.2**	**J**	**700**		**5.7**	**J**			**66**	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		76-13-1	5	NE	2.5	U	62	U	12	U			25	U
1,2,3-Trichlorobenzene		87-61-6	5	NE	2.5	U	62	U	12	U			25	UJ
1,2,4-Trichlorobenzene		120-82-1	5	NE	2.5	U	62	U	12	U			25	U
1,1,1-Trichloroethane (TCA)		71-55-6	5	NE	2.5	U	62	U	12	U			**53**	
1,1,2-Trichloroethane		79-00-5	1	NE	1.5	U	38	U	7.5	U			15	U
Trichloroethene (TCE)		79-01-6	5	NE	0.5	U	12	U	2.5	U			5	U
Trichlorofluoromethane (Freon 11)		75-69-4	5	NE	2.5	UJ	62	U	12	U			25	U
Vinyl chloride		75-01-4	2	NE	1	U	**3.8**	**J**	**0.81**	**J**			**280**	
o-Xylene		95-47-6	5	NE	**6.2**		**740**		**140**				**47**	
m/p-Xylene		179601-23-1	5	NE	**7.8**		**1,400**		**72**				**68**	
SVOCs (8270D or DSIM)	ug/L													
Acenaphthene		83-32-9	20*	NE	**4.9**		**7.9**		**150**				**4.6**	
Acenaphthylene		208-96-8	NE	NE	**1**		**23**		**60**				**0.2**	
Acetophenone		98-86-2	NE	NE	5	U	5	U	5	U			5	U
Anthracene		120-12-7	50*	NE	**0.45**		**2.8**		**9.6**				**1.3**	
Atrazine		1912-24-9	7.5	NE	10	U	10	U	10	U			10	U
Benzaldehyde		100-52-7	NE	NE	5	U	5	U	5	R			5	U
Benzo(a)anthracene		56-55-3	0.002*	NE	**0.05**	**J**	**1.1**	**J**	4	U			**0.17**	
Benzo(b)fluoranthene		205-99-2	0.002*	NE	**0.02**	**J**	**0.46**	**J**	4	U			**0.32**	
Benzo(k)fluoranthene		207-08-9	0.002*	NE	**0.01**	**J**	2.5	U	4	U			**0.09**	**J**
Benzo(g,h,i)perylene		191-24-2	NE	NE	0.1	U	2.5	U	4	U			**0.19**	
Benzo(a)pyrene		50-32-8	ND	NE	**0.02**	**J**	**0.74**	**J**	4	U			**0.13**	
Biphenyl (1,1-Biphenyl)		92-52-4	5	NE	**0.53**	**J**	**72**		**36**	**J**			**5.3**	
Bis(2-chloroethoxy)methane		111-91-1	5	NE	5	U	5	U	5	U			5	U
Bis(2-chloroethyl)ether		111-44-4	1	NE	2	U	2	U	2	U			2	U
2,2-oxybis(1-Chloropropane)		108-60-1	5	NE	2	U	2	U	2	U			2	U
Bis(2-ethylhexyl)phthalate		117-81-7	5	NE	3	U	3	U	3	U			**1.8**	**J**
4-Bromophenyl phenyl ether		101-55-3	NE	NE	2	U	2	U	2	U			2	U
Butyl benzyl phthalate		85-68-7	50*	NE	5	UJ	5	U	5	U			5	U
Caprolactam		105-60-2	NE	NE	10	U	10	U	10	U			10	U
Carbazole		86-74-8	NE	NE	2	UJ	**7.9**		**3.6**				**0.68**	**J**
4-Chloro-3-methylphenol		59-50-7	NE	NE	2	U	2	U	2	U			2	U
4-Chloroaniline		106-47-8	5	NE	5	UJ	5	U	5	U			5	U
2-Chloronaphthalene		91-58-7	10*	NE	0.2	U	5	U	8	U			0.2	U

Table 5B. Groundwater Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

				Task Description	Lower Scajaquada Creek Area									
				Sample Name	MW-LSC-3		MW-LSC-4		MW-LSC-5		DUP		BSA-MH-WATER	
				Sample Date	1/18/2022		1/19/2022		1/19/2022		1/19/2022		11/18/2021	
				Parent Sample							MW-LSC-5			
Analyte	**Units**	**CAS No. or Identifier**	**NY AWQS**	**NYSDEC Interim Guidance**										
2-Chlorophenol		95-57-8	NE	NE	2	U	2	U	2	U			2	U
4-Chlorophenyl phenyl ether		7005-72-3	NE	NE	2	U	2	U	2	U			2	U
Chrysene		218-01-9	0.002*	NE	**0.02**	**J**	**0.59**	**J**	4	U			**0.25**	
Dibenz(a,h)anthracene		53-70-3	NE	NE	0.1	U	2.5	U	4	U			**0.04**	**J**
Dibenzofuran		132-64-9	NE	NE	2	U	**13**		**8.3**				2	U
3,3-Dichlorobenzidine		91-94-1	5	NE	5	UJ	5	U	5	UJ			5	U
2,4-Dichlorophenol		120-83-2	5	NE	5	U	5	U	5	U			5	U
Diethyl phthalate		84-66-2	50*	NE	5	U	5	U	5	U			5	U
Dimethyl phthalate		131-11-3	50*	NE	5	U	5	U	5	U			5	U
2,4-Dimethylphenol		105-67-9	50*	NE	5	UJ	5	U	5	U			5	U
Di-n-butyl phthalate		84-74-2	50	NE	5	U	5	U	5	U			5	U
4,6-Dinitro-2-methylphenol		534-52-1	NE	NE	10	U	10	U	10	U			10	U
2,4-Dinitrophenol		51-28-5	10*	NE	20	U	20	U	20	U			20	U
2,4-Dinitrotoluene		121-14-2	5	NE	5	U	5	U	5	U			5	U
2,6-Dinitrotoluene		606-20-2	5	NE	5	U	5	U	5	U			5	U
Di-n-octyl phthalate		117-84-0	50*	NE	5	U	5	U	5	U			5	U
1,4-Dioxane		123-91-1	NE	0.35	**0.0785**	**J**	**0.343**		**4.23**				**12,200**	
Fluoranthene		206-44-0	50*	NE	**0.31**		2.5	U	4	U			**1**	
Fluorene		86-73-7	50*	NE	**2.1**		**7.5**		**41**				**6**	
Hexachlorobenzene		118-74-1	0.04	NE	0.8	U	20	U	32	U			0.8	U
1,3-Hexachlorobutadiene (C-46)		87-68-3	0.5	NE	0.5	U	12	U	20	U			0.5	U
Hexachlorocyclopentadiene		77-47-4	5	NE	20	U	20	U	20	U			20	U
Hexachloroethane		67-72-1	5	NE	0.8	U	20	U	32	U			**0.13**	**J**
Indeno(1,2,3-cd)pyrene		193-39-5	0.002*	NE	0.1	U	2.5	U	4	U			**0.21**	
Isophorone		78-59-1	50*	NE	5	U	5	U	5	U			5	U
2-Methylnaphthalene		91-57-6	NE	NE	**7.8**		**140**		**620**				**0.09**	**J**
2-Methylphenol (o-Cresol)		95-48-7	1	NE	5	U	**3.5**	**J**	5	U			5	U
3,4-Methylphenol (m,p-Cresol)		108394/106445	NE	NE	5	U	**2.8**	**J**	**0.83**	**J**			5	U
Naphthalene		91-20-3	10*	NE	**39**		**930**		**1,700**				**0.08**	**J**
2-Nitroaniline		88-74-4	5	NE	5	U	5	U	5	U			5	U
3-Nitroaniline		99-09-2	5	NE	5	U	5	U	5	U			5	U
4-Nitroaniline		100-01-6	5	NE	5	U	5	U	5	U			5	U
Nitrobenzene		98-95-3	0.4	NE	2	UJ	2	U	2	U			2	U
2-Nitrophenol		88-75-5	NE	NE	10	UJ	10	U	10	U			10	U
4-Nitrophenol		100-02-7	NE	NE	10	U	10	U	10	U			10	U
N-Nitrosodiphenylamine (NDFA)		86-30-6	50*	NE	2	U	2	U	2	U			2	U
N-Nitrosodi-n-propylamine (NDPA)		621-64-7	NE	NE	5	U	5	U	5	U			5	U
Pentachlorophenol		87-86-5	1	NE	0.8	U	20	UJ	32	UJ			0.8	U

Table 5B. Groundwater Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

				Task Description	Lower Scajaquada Creek Area									
				Sample Name	MW-LSC-3		MW-LSC-4		MW-LSC-5		DUP		BSA-MH-WATER	
				Sample Date	1/18/2022		1/19/2022		1/19/2022		1/19/2022		11/18/2021	
				Parent Sample							MW-LSC-5			
Analyte	**Units**	**CAS No. or Identifier**	**NY AWQS**	**NYSDEC Interim Guidance**										
Phenanthrene		85-01-8	50*	NE	**1.9**		**13**		**49**				**7**	
Phenol		108-95-2	1	NE	5	U	**5**		**0.7**	**J**			**8.6**	
Pyrene		129-00-0	50*	NE	**0.39**		**3.8**		**4**				**1.3**	
1,2,4,5-Tetrachlorobenzene		95-94-3	5	NE	10	U	10	U	10	U			10	U
2,3,4,6-Tetrachlorophenol		58-90-2	NE	NE	5	U	5	U	5	U			5	U
2,4,5-Trichlorophenol		95-95-4	NE	NE	5	U	5	U	5	U			5	U
2,4,6-Trichlorophenol		88-06-2	NE	NE	5	U	5	U	5	U			5	U
Total PAH (17) (ND=0)		TPAH17_ND0	NE	NE	**58**		**1,131**		**2,634**				23	
CYANIDES (9012B)	mg/L													
Total Cyanide		57-12-5	0.2	NE	**0.004**	**J**	**0.004**	**J**	**0.004**	**J**			**0.002**	**J**
METALS (6020B/7470A)	mg/L													
Aluminum		7429-90-5	NE	NE	**0.0296**	**J**	**0.114**		**0.03**				**2.59**	
Antimony		7440-36-0	0.003	NE	0.004	U	0.004	U	**0.00046**	**J**			**0.00331**	**J**
Arsenic		7440-38-2	0.025	NE	**0.00306**		**0.00027**	**J**	**0.0007**				**0.00217**	
Barium		7440-39-3	1	NE	**0.2552**		**0.1568**		**0.2859**				**0.1282**	
Beryllium		7440-41-7	0.003*	NE	0.0005	U	0.0005	U	0.0005	U			**0.00013**	**J**
Cadmium		7440-43-9	0.005	NE	0.0002	U	0.0002	U	0.0002	U			**8.00E-05**	**J**
Calcium		7440-70-2	NE	NE	**260**		**114**		**193**				**99.7**	
Chromium		7440-47-3	0.05	NE	**0.00034**	**J**	**0.00045**	**J**	**0.00027**	**J**			**0.00568**	
Cobalt		7440-48-4	NE	NE	**0.00184**	**J**	**0.00016**	**J**	**0.0002**	**J**			**0.00197**	
Copper		7440-50-8	0.2	NE	0.001	U	0.001	U	0.001	U			**0.01747**	
Iron		7439-89-6	0.3	NE	**11.3**		**0.239**	**J**	**0.854**				**4.21**	
Lead		7439-92-1	0.025	NE	0.001	U	0.001	U	0.001	U			**0.02769**	
Magnesium		7439-95-4	35*	NE	**52.7**		**22.8**		**59.9**				**20.8**	
Manganese		7439-96-5	0.3	NE	**0.4426**		**0.1539**		**0.6083**				**0.2258**	
Mercury		7439-97-6	0.0007	NE	0.0002	U	0.0002	U	0.0002	U			0.0002	U
Nickel		7440-02-0	0.1	NE	**0.00099**	**J**	0.002	U	0.002	U			**0.0057**	
Potassium		7440-09-7	NE	NE	**8**		**4.79**		**3.89**				**7.5**	
Selenium		7782-49-2	0.01	NE	0.005	U	0.005	U	0.005	U			0.005	U
Silver		7440-22-4	0.05	NE	0.0004	U	0.0004	U	0.0004	U			**0.00017**	**J**
Sodium		7440-23-5	20	NE	**380**		**182**		**332**				**157**	
Thallium		7440-28-0	0.0005*	NE	0.001	U	0.001	U	0.001	U			0.001	U
Vanadium		7440-62-2	NE	NE	0.005	U	**0.00184**	**J**	0.005	U			**0.00564**	
Zinc		7440-66-6	2*	NE	0.01	U	0.0114	U	0.01	U			**0.07793**	
PESTICIDES (8081B)	ug/L													
Aldrin		309-00-2	ND	NE	0.014	UJ	0.714	U	0.014	UJ			0.014	U
alpha-BHC (Hexachlorocyclohexane)		319-84-6	0.01	NE	0.014	UJ	0.714	U	0.014	UJ			0.014	U
beta-BHC (beta-Hexachlorocyclohexane)		319-85-7	0.04	NE	0.014	U	0.714	U	0.014	U			0.014	U

Table 5B. Groundwater Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

				Task Description	Lower Scajaquada Creek Area									
				Sample Name	MW-LSC-3		MW-LSC-4		MW-LSC-5		DUP		BSA-MH-WATER	
				Sample Date	1/18/2022		1/19/2022		1/19/2022		1/19/2022		11/18/2021	
				Parent Sample							MW-LSC-5			
Analyte	**Units**	**CAS No. or Identifier**	**NY AWQS**	**NYSDEC Interim Guidance**										
gamma-BHC (gamma-Hexachlorocyclohexane) (Lindane)		58-89-9	0.05	NE	0.014	UJ	0.714	U	0.014	UJ			0.014	U
delta-BHC (delta-Hexachlorocyclohexane)		319-86-8	0.04	NE	0.014	UJ	0.714	U	0.014	UJ			0.014	U
Chlordane (Technical)		12789-03-6	NE	NE	0.143	UJ	7.14	U	0.143	UJ			0.143	U
alpha-chlordane		5103-71-9	NE	NE	0.014	U	0.714	U	0.014	UJ			0.014	U
gamma-Chlordane		5103-74-2	NE	NE	0.014	U	0.714	U	0.014	UJ			0.014	U
2,4-D (2,4-Dichlorophenoxyacetic acid)		94-75-7	50	NE										
4,4'-DDT (p,p'-DDT)		50-29-3	0.2	NE	0.029	UJ	1.43	U	0.029	UJ			0.029	U
4,4'-DDE (p,p'-DDE)		72-55-9	0.2	NE	0.029	UJ	1.43	U	0.029	UJ			0.029	U
4,4'-DDD (p,p-DDD)		72-54-8	0.3	NE	0.029	UJ	1.43	U	0.029	UJ			0.029	U
Dieldrin		60-57-1	0.004	NE	0.029	UJ	1.43	U	0.029	UJ			0.029	U
alpha-Endosulfan (I)		959-98-8	NE	NE	0.014	UJ	0.714	U	0.014	UJ			0.014	U
beta-Endosulfan (II)		33213-65-9	NE	NE	0.029	UJ	1.43	U	0.029	UJ			0.029	U
Endosulfan sulfate		1031-07-8	NE	NE	0.029	UJ	1.43	U	0.029	UJ			0.029	U
Endrin		72-20-8	ND	NE	0.029	UJ	1.43	U	0.029	UJ			0.029	U
Endrin aldehyde		7421-93-4	5	NE	0.029	U	1.43	U	0.029	U			0.029	U
Endrin ketone		53494-70-5	5	NE	0.029	UJ	1.43	U	0.029	UJ			0.029	U
Heptachlor		76-44-8	0.04	NE	0.014	UJ	0.714	U	0.014	UJ			0.014	U
Heptachlor epoxide		1024-57-3	0.03	NE	0.014	UJ	0.714	U	0.014	UJ			0.014	U
Methoxychlor		72-43-5	35	NE	0.143	UJ	7.14	UJ	0.143	UJ			0.143	U
2,4,5-TP (Silvex)		93-72-1	0.26	NE										
Toxaphene		8001-35-2	0.06	NE	0.143	UJ	7.14	UJ	0.143	UJ			0.143	U
HERBICIDES (8151A)	ug/L													
2,4-D (2,4-Dichlorophenoxyacetic acid)		94-75-7	50	NE	10	U	10	U	10	U			10	U
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)		93-76-5	35	NE	2	UJ	2	UJ	2	UJ			2	U
2,4,5-TP (Silvex)		93-72-1	0.26	NE	2	U	2	U	2	U			2	U
PCBs (8082A)	ug/L													
Aroclor 1016		12674-11-2	NE	NE	0.071	UJ	0.071	UJ	0.071	UJ			0.071	U
Aroclor 1221		11104-28-2	NE	NE	0.071	UJ	0.071	UJ	0.071	UJ			0.071	U
Aroclor 1232		11141-16-5	NE	NE	0.071	UJ	0.071	UJ	0.071	UJ			0.071	U
Aroclor 1242		53469-21-9	NE	NE	0.071	UJ	0.071	UJ	0.071	UJ			0.071	U
Aroclor 1248		12672-29-6	NE	NE	0.071	UJ	0.071	UJ	0.071	UJ			0.071	U
Aroclor 1254		11097-69-1	NE	NE	0.071	UJ	0.071	UJ	0.071	UJ			**0.066**	**J**
Aroclor 1260		11096-82-5	NE	NE	0.071	UJ	0.071	UJ	0.071	UJ			0.071	U
Aroclor 1262		37324-23-5	NE	NE	0.071	UJ	0.071	UJ	0.071	UJ			0.071	U
Aroclor 1268		11100-14-4	NE	NE	0.071	UJ	0.071	UJ	0.071	UJ			0.071	U
Total PCBs (Lab calculated)		1336-36-3	0.09	NE	0.071	UJ	0.071	UJ	0.071	UJ			**0.066**	**J**
PFAS (LCMSMS-ID)	ng/L													

Table 5B. Groundwater Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

				Task Description	Lower Scajaquada Creek Area									
				Sample Name	MW-LSC-3		MW-LSC-4		MW-LSC-5		DUP		BSA-MH-WATER	
				Sample Date	1/18/2022		1/19/2022		1/19/2022		1/19/2022		11/18/2021	
				Parent Sample							MW-LSC-5			
Analyte	**Units**	**CAS No. or Identifier**	**NY AWQS**	**NYSDEC Interim Guidance**										
N-ethyl perfluorooctanesulfonamidoacetic acid (NEtFOSAA)		2991-50-6	NE	NE	1.86	U	10	U	1.84	U	1.79	U	2.46	U
N-methyl perfluorooctanesulfonamidoacetic acid (NMeFOSAA)		2355-31-9	NE	NE	1.86	U	10	U	1.84	U	1.79	U	2.46	U
Perfluorobutanesulfonic acid (PFBS)		375-73-5	NE	NE	**1.63**	**J**	**1.92**	**J**	**1.43**	**J**	**1.32**	**J**	**2.32**	**J**
Perfluorobutanoic acid (PFBA)		375-22-4	NE	NE	**7.46**		**5.92**	**J**	**7.8**	**J**	**14.6**	**J**	**11.8**	
Perfluorodecanesulfonic acid (PFDS)		335-77-3	NE	NE	1.86	UJ	10	UJ	1.84	UJ	1.79	UJ	2.46	U
Perfluorodecanoic acid (PFDA)		335-76-2	NE	NE	1.86	U	10	U	1.84	U	1.79	U	**0.566**	**J**
Perfluorododecanoic acid (PFDoA)		307-55-1	NE	NE	1.86	U	10	U	1.84	U	1.79	U	2.46	U
Perfluoroheptanesulfonic acid (PFHpS)		375-92-8	NE	NE	1.86	U	10	U	1.84	U	1.79	U	2.46	U
Perfluoroheptanoic acid (PFHpA)		375-85-9	NE	NE	**4.24**		**5.4**	**J**	**6.18**	**J**	**10**	**J**	**2.58**	
Perfluorohexanoic acid (PFHxA)		307-24-4	NE	NE	**8.77**		**13.6**		**16.6**		**17.9**		**5**	
Perfluorooctanesulfonamide (FOSA)		754-91-6	NE	NE	1.86	U	10	U	1.84	U	1.79	U	2.46	U
Perfluoropentanoic Acid (PFPeA)		2706-90-3	NE	NE	**16.8**		**25.1**		**30.3**		**36**		**10.4**	
Perfluorotetradecanoic acid (PFTA/PFTeDA)		376-06-7	NE	NE	1.86	U	10	U	1.84	U	1.79	U	**0.462**	**J**
Perfluorotridecanoic acid (PFTriA/PFTrDA)		72629-94-8	NE	NE	1.86	U	10	U	1.84	U	1.79	U	2.46	U
Perfluoroundecanoic acid (PFUnA)		2058-94-8	NE	NE	1.86	U	10	U	1.84	U	1.79	U	2.46	U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2)		39108-34-4	NE	NE	1.86	UJ	10	UJ	1.84	UJ	1.79	UJ	2.46	U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)		27619-97-2	NE	NE	1.86	U	**14.6**		**29.6**	**J**	**1.58**	**J**	**1.91**	**J**
Perfluorohexanesulfonic acid (PFHxS)		355-46-4	NE	NE	**2.23**		**4.52**	**J**	**5.77**		**2.2**		**1.52**	**J**
Perfluorononanoic Acid (PFNA)		375-95-1	NE	NE	**0.305**	**J**	**1.74**	**J**	**1.44**	**J**	1.79	U	**0.718**	**J**
Perfluorooctanesulfonic acid (PFOS)		1763-23-1	NE	10	**2.06**	**J**	**18**		**8.3**	**J**	**1.46**	**J**	**5.33**	
Perfluorooctanoic Acid (PFOA)		335-67-1	NE	10	**3.38**		**4.86**	**J**	**4.88**		**6.76**		**3.17**	
Total PFAS (ND=0)		TPFAS_ND0	NE	NE	**46.875**		**95.66**		**112.3**		**91.82**		**45.776**	

Table 5B. Groundwater Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

Notes:

mg/L = milligrams/liter
ng/L = nanogram per liter (ppt)
ug/L = micrograms per liter or parts per billion (ppb)

PAH = Polycyclic Aromatic Hydrocarbon
PCB = Polychlorinated Biphenyl
SVOC = Semi-Volatile Organic Compound
VOC = Volatile Organic Compound

CAS No. = Chemical Abstracts Service Number
ND = Not Detected
NE = Not Established

NYS AWQS = New York State Ambient Water Quality Standards and Guidance Values for GA groundwater
* indicates the value is a guidance value and not a standard
NYSDEC Interim Groundwater Screening Levels based on NYSDEC guidance as follows:
- February 2019 (1,4-dioxane)
- June 2021 (PFAS)
Bolding indicates a detected result concentration
Shading and bolding indicates that the detected concentration is above the NYSDOH guidance it was compared to

Validation Qualifiers:
J = The result is an estimated value.
R = The result is rejected.
U = The result was not detected above the reporting limit.
UJ = The results was not detected at or above the reporting limit shown and the reporting limit is estimated.

Table 5C. Creek Shallow Sediment Boring Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

			Task Description	Scajaquada Creek Shallow Sediment Boring Sample Analytical Results											
			Sample Name	SED-BGL-1/0-0.5		SED-LSC-1/0-0.5		SED-LSC-2/0-0.5		SED-LSC-3/0-0.5		SED-LSC-DUP/0-0.5		SED-LSC-4/0-0.5	
			Start Depth	0		0		0		0		0		0	
			End Depth	0.5		0.5		0.5		0.5		0.5		0.5	
			Depth Unit	ft		ft		ft		ft		ft		ft	
			Sample Date	11/11/2021		11/11/2021		11/11/2021		11/11/2021		11/11/2021		11/11/2021	
			Parent Sample									SED-LSC-3/0-0.5			
Analyte	**Units**	**CAS No. or Identifier**	**Freshwater Sediment Guidance Values Class B**												
VOCs (SW 8260C)	ug/kg														
Acetone		67-64-1	NE	930	U	3,300	UJ	**150**	**J**	4,000	UJ	1,800	UJ	**2,500**	**J**
Benzene		71-43-2	1900	46	U	170	UJ	1.2	UJ	200	UJ	**34**	**J**	250	UJ
Bromochloromethane		74-97-5	NE	190	U	660	UJ	4.8	UJ	810	UJ	360	UJ	1000	UJ
Bromodichloromethane		75-27-4	NE	46	U	170	UJ	1.2	UJ	200	UJ	89	UJ	250	UJ
Bromoform		75-25-2	NE	370	U	1,300	UJ	9.6	UJ	1,600	UJ	710	UJ	2,000	UJ
Bromomethane		74-83-9	NE	190	U	660	UJ	4.8	UJ	810	UJ	360	UJ	1000	UJ
Carbon disulfide		75-15-0	NE	930	UJ	3,300	UJ	24	UJ	4,000	UJ	1,800	UJ	5,000	UJ
Carbon tetrachloride		56-23-5	9600	93	UJ	330	UJ	2.4	UJ	400	UJ	180	UJ	500	UJ
Chlorobenzene		108-90-7	1700	46	U	170	UJ	1.2	UJ	200	UJ	89	UJ	250	UJ
Chloroethane		75-00-3	NE	190	U	660	UJ	4.8	UJ	810	UJ	360	UJ	1000	UJ
Chloroform (Trichloromethane)		67-66-3	NE	140	U	**66**	**J**	3.6	UJ	610	UJ	270	UJ	760	UJ
Chloromethane		74-87-3	NE	370	U	1,300	UJ	9.6	UJ	1,600	UJ	710	UJ	2,000	UJ
Cyclohexane		110-82-7	NE	930	U	3,300	UJ	24	UJ	4,000	UJ	1,800	UJ	5,000	UJ
1,2-Dibromo-3-chloropropane		96-12-8	NE	280	U	1000	UJ	7.2	UJ	1,200	UJ	540	UJ	1,500	UJ
Dibromochloromethane		124-48-1	NE	93	U	330	UJ	2.4	UJ	400	UJ	180	UJ	500	UJ
1,2-Dibromoethane (EDB)		106-93-4	NE	93	U	330	UJ	2.4	UJ	400	UJ	180	UJ	500	UJ
1,2-Dichlorobenzene (o-DCB)		95-50-1	2500	190	U	660	UJ	4.8	UJ	810	UJ	360	UJ	1000	UJ
1,3-Dichlorobenzene (m-DCB)		541-73-1	7100	190	U	660	UJ	4.8	UJ	810	UJ	360	UJ	1000	UJ
1,4-Dichlorobenzene (p-DCB)		106-46-7	3300	190	U	660	UJ	4.8	UJ	810	UJ	360	UJ	1000	UJ
Dichlorodifluoromethane (Freon 12)		75-71-8	NE	930	U	3,300	UJ	24	UJ	4,000	UJ	1,800	UJ	5,000	UJ
1,1-Dichloroethane		75-34-3	NE	93	U	330	UJ	2.4	UJ	400	UJ	180	UJ	500	UJ
1,2-Dichloroethane		107-06-2	NE	93	U	330	UJ	2.4	UJ	400	UJ	180	UJ	500	UJ
1,1-Dichloroethene		75-35-4	4700	93	U	330	UJ	2.4	UJ	400	UJ	180	UJ	500	UJ
cis-1,2-Dichloroethene		156-59-2	NE	93	U	330	UJ	**1.2**	**J**	400	UJ	180	UJ	500	UJ
trans-1,2-Dichloroethene		156-60-5	11000	140	U	500	UJ	3.6	UJ	610	UJ	270	UJ	760	UJ
1,2-Dichloropropane		78-87-5	NE	93	U	330	UJ	2.4	UJ	400	UJ	180	UJ	500	UJ
cis-1,3-Dichloropropene		10061-01-5	NE	46	U	170	UJ	1.2	UJ	200	UJ	89	UJ	250	UJ
trans-1,3-Dichloropropene		10061-02-6	NE	93	U	330	UJ	2.4	UJ	400	UJ	180	UJ	500	UJ
1,4-Dioxane		123-91-1	NE		R		R		R		R		R		R
Ethylbenzene		100-41-4	3700	93	U	330	UJ	**0.68**	**J**	**5,300**	**J**	**3,000**	**J**	500	UJ
2-Hexanone		591-78-6	NE	930	U	3,300	UJ	24	UJ	4,000	UJ	1,800	UJ	5,000	UJ
Isopropylbenzene		98-82-8	1800	93	U	330	UJ	**0.41**	**J**	**560**	**J**	**280**	**J**	500	UJ
Methyl acetate		79-20-9	NE	**800**		**2,900**	**J**	9.6	UJ	**2,200**	**J**	**1000**	**J**	**15,000**	**J**
Methyl ethyl ketone (2-Butanone)		78-93-3	NE	930	U	3,300	UJ	**33**	**J**	4,000	UJ	1,800	UJ	5,000	UJ

Table 5C. Creek Shallow Sediment Boring Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

			Task Description	Scajaquada Creek Shallow Sediment Boring Sample Analytical Results											
			Sample Name	SED-BGL-1/0-0.5		SED-LSC-1/0-0.5		SED-LSC-2/0-0.5		SED-LSC-3/0-0.5		SED-LSC-DUP/0-0.5		SED-LSC-4/0-0.5	
			Start Depth	0		0		0		0		0		0	
			End Depth	0.5		0.5		0.5		0.5		0.5		0.5	
			Depth Unit	ft		ft		ft		ft		ft		ft	
			Sample Date	11/11/2021		11/11/2021		11/11/2021		11/11/2021		11/11/2021		11/11/2021	
			Parent Sample									SED-LSC-3/0-0.5			
Analyte	**Units**	**CAS No. or Identifier**	**Freshwater Sediment Guidance Values Class B**												
Methyl tert-butyl ether (MTBE)		1634-04-4	NE	190	U	660	UJ	4.8	UJ	810	UJ	360	UJ	1000	UJ
4-Methyl-2-pentanone (MIBK)		108-10-1	NE	930	U	3,300	UJ	24	UJ	4,000	UJ	1,800	UJ	5,000	UJ
Methylcyclohexane		108-87-2	NE	370	UJ	1,300	UJ	9.6	UJ	1,600	UJ	710	UJ	2,000	UJ
Methylene chloride		75-09-2	NE	460	U	1,700	UJ	12	UJ	2,000	UJ	890	UJ	2,500	UJ
Styrene		100-42-5	NE	93	U	330	UJ	2.4	UJ	400	UJ	180	UJ	500	UJ
1,1,2,2-Tetrachloroethane		79-34-5	5400	46	U	170	UJ	1.2	UJ	200	UJ	89	UJ	250	UJ
Tetrachloroethene (PCE)		127-18-4	57000	46	U	170	UJ	1.2	UJ	200	UJ	89	UJ	250	UJ
Toluene		108-88-3	4500	93	U	330	UJ	2.4	UJ	**220**	**J**	**140**	**J**	500	UJ
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		76-13-1	NE	370	UJ	1,300	UJ	9.6	UJ	1,600	UJ	710	UJ	2,000	UJ
1,2,3-Trichlorobenzene		87-61-6	2800	190	U	660	UJ	4.8	UJ	810	UJ	360	UJ	1000	UJ
1,2,4-Trichlorobenzene		120-82-1	55000	190	U	660	UJ	4.8	UJ	810	UJ	360	UJ	1000	UJ
1,1,1-Trichloroethane (TCA)		71-55-6	3500	46	UJ	170	UJ	1.2	UJ	200	UJ	89	UJ	250	UJ
1,1,2-Trichloroethane		79-00-5	3500	93	U	330	UJ	2.4	UJ	400	UJ	180	UJ	500	UJ
Trichloroethene (TCE)		79-01-6	8600	46	U	170	UJ	1.2	UJ	200	UJ	89	UJ	250	UJ
Trichlorofluoromethane (Freon 11)		75-69-4	NE	370	U	1,300	UJ	9.6	UJ	1,600	UJ	710	UJ	2,000	UJ
Vinyl chloride		75-01-4	NE	93	U	330	UJ	2.4	UJ	400	UJ	180	UJ	500	UJ
o-Xylene		95-47-6	7200	93	U	330	UJ	**1.4**	**J**	**1,600**	**J**	**870**	**J**	500	UJ
m/p-Xylene		179601-23-1	4200	190	U	660	UJ	4.8	UJ	**2,500**	**J**	**1,400**	**J**	1000	UJ
SVOCs (SW 8270D)	ug/kg														
Acenaphthene		83-32-9	NE	**120**	**J**	**3,200**	**J**	**4,500**	**J**	**520,000**	**J**	**390,000**	**J**	4,700	UJ
Acenaphthylene		208-96-8	NE	**570**	**J**	**6,100**	**J**	**8,700**	**J**	**130,000**	**J**	**96,000**	**J**	4,700	UJ
Acetophenone		98-86-2	NE	1,100	U	2,000	UJ	1,800	UJ	35,000	UJ	8,600	UJ	5,900	UJ
Anthracene		120-12-7	NE	**300**	**J**	**5,500**	**J**	**6,100**	**J**	**390,000**	**J**	**310,000**	**J**	3,600	UJ
Atrazine		1912-24-9	NE	890	U	1,600	UJ	1,400	UJ	28,000	UJ	6,900	UJ	4,700	UJ
Benzaldehyde		100-52-7	NE	1,500	U	2,700	UJ	2,300	UJ	46,000	UJ	11,000	UJ	7,800	UJ
Benzo(a)anthracene		56-55-3	NE	**1000**		**10,000**	**J**	**17,000**	**J**	**250,000**	**J**	**220,000**	**J**	**1,200**	**J**
Benzo(b)fluoranthene		205-99-2	NE	**1,100**		**9,300**	**J**	**15,000**	**J**	**150,000**	**J**	**130,000**	**J**	**1,900**	**J**
Benzo(k)fluoranthene		207-08-9	NE	**320**	**J**	**2,800**	**J**	**4,200**	**J**	**40,000**	**J**	**32,000**	**J**	3,600	UJ
Benzo(g,h,i)perylene		191-24-2	NE	**580**	**J**	**6,400**	**J**	**9,000**	**J**	**95,000**	**J**	**82,000**	**J**	**1,100**	**J**
Benzo(a)pyrene		50-32-8	NE	**1,100**		**11,000**	**J**	**19,000**	**J**	**210,000**	**J**	**180,000**	**J**	4,700	UJ
Biphenyl (1,1-Biphenyl)		92-52-4	NE	2,500	U	4,600	UJ	4,000	UJ	**210,000**	**J**	**160,000**	**J**	14,000	UJ
Bis(2-chloroethoxy)methane		111-91-1	NE	1,200	U	2,200	UJ	1,900	UJ	38,000	UJ	9,300	UJ	6,400	UJ
Bis(2-chloroethyl)ether		111-44-4	NE	1000	U	1,800	UJ	1,600	UJ	32,000	UJ	7,800	UJ	5,300	UJ
2,2-oxybis(1-Chloropropane)		108-60-1	NE	1,300	UJ	2,400	UJ	2,100	UJ	42,000	UJ	10,000	UJ	7,100	UJ
Bis(2-ethylhexyl)phthalate		117-81-7	360000	1,100	UJ	**2,400**	**J**	**3,200**	**J**	35,000	UJ	**4,100**	**J**	5,900	UJ
4-Bromophenyl phenyl ether		101-55-3	NE	1,100	U	2,000	UJ	1,800	UJ	35,000	UJ	8,600	UJ	5,900	UJ

Table 5C. Creek Shallow Sediment Boring Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

			Task Description	Scajaquada Creek Shallow Sediment Boring Sample Analytical Results											
			Sample Name	SED-BGL-1/0-0.5		SED-LSC-1/0-0.5		SED-LSC-2/0-0.5		SED-LSC-3/0-0.5		SED-LSC-DUP/0-0.5		SED-LSC-4/0-0.5	
			Start Depth	0		0		0		0		0		0	
			End Depth	0.5		0.5		0.5		0.5		0.5		0.5	
			Depth Unit	ft		ft		ft		ft		ft		ft	
			Sample Date	11/11/2021		11/11/2021		11/11/2021		11/11/2021		11/11/2021		11/11/2021	
			Parent Sample									SED-LSC-3/0-0.5			
Analyte	**Units**	**CAS No. or Identifier**	**Freshwater Sediment Guidance Values Class B**												
Butyl benzyl phthalate		85-68-7	NE	1,100	UJ	2,000	UJ	1,800	UJ	35,000	UJ	8,600	UJ	5,900	UJ
Caprolactam		105-60-2	NE	1,100	U	2,000	UJ	1,800	UJ	35,000	UJ	8,600	UJ	5,900	UJ
Carbazole		86-74-8	NE	1,100	U	**240**	**J**	**230**	**J**	35,000	UJ	**1,900**	**J**	5,900	UJ
4-Chloro-3-methylphenol		59-50-7	NE	1,100	U	2,000	UJ	1,800	UJ	35,000	UJ	8,600	UJ	5,900	UJ
4-Chloroaniline		106-47-8	NE	1,100	U	2,000	UJ	1,800	UJ	35,000	UJ	8,600	UJ	5,900	UJ
2-Chloronaphthalene		91-58-7	NE	1,100	U	2,000	UJ	1,800	UJ	35,000	UJ	8,600	UJ	5,900	UJ
2-Chlorophenol		95-57-8	NE	1,100	U	2,000	UJ	1,800	UJ	35,000	UJ	8,600	UJ	5,900	UJ
4-Chlorophenyl phenyl ether		7005-72-3	NE	1,100	U	2,000	UJ	1,800	UJ	35,000	UJ	8,600	UJ	5,900	UJ
Chrysene		218-01-9	NE	**980**		**9,400**	**J**	**14,000**	**J**	**200,000**	**J**	**160,000**	**J**	**1,500**	**J**
Dibenz(a,h)anthracene		53-70-3	NE	670	U	**1,400**	**J**	**1,900**	**J**	**23,000**	**J**	**20,000**	**J**	3,600	UJ
Dibenzofuran		132-64-9	NE	1,100	U	2,000	UJ	1,800	UJ	**69,000**	**J**	**44,000**	**J**	5,900	UJ
3,3-Dichlorobenzidine		91-94-1	NE	1,100	U	2,000	UJ	1,800	UJ	35,000	UJ	8,600	UJ	5,900	UJ
2,4-Dichlorophenol		120-83-2	NE	1000	U	1,800	UJ	1,600	UJ	32,000	UJ	7,800	UJ	5,300	UJ
Diethyl phthalate		84-66-2	NE	1,100	U	2,000	UJ	1,800	UJ	35,000	UJ	8,600	UJ	5,900	UJ
Dimethyl phthalate		131-11-3	NE	1,100	U	2,000	UJ	1,800	UJ	35,000	UJ	8,600	UJ	5,900	UJ
2,4-Dimethylphenol		105-67-9	NE	1,100	U	2,000	UJ	1,800	UJ	35,000	UJ	8,600	UJ	5,900	UJ
Di-n-butyl phthalate		84-74-2	NE	1,100	U	2,000	UJ	1,800	UJ	35,000	UJ	8,600	UJ	5,900	UJ
4,6-Dinitro-2-methylphenol		534-52-1	NE	2,900	UJ	5,300	UJ	4,600	UJ	92,000	UJ	22,000	UJ	15,000	UJ
2,4-Dinitrophenol		51-28-5	NE	5,400	UJ	9,800	UJ	8,400	UJ	170,000	UJ	41,000	UJ	28,000	UJ
2,4-Dinitrotoluene		121-14-2	NE	1,100	U	2,000	UJ	1,800	UJ	35,000	UJ	8,600	UJ	5,900	UJ
2,6-Dinitrotoluene		606-20-2	NE	1,100	UJ	2,000	UJ	1,800	UJ	35,000	UJ	8,600	UJ	5,900	UJ
Di-n-octyl phthalate		117-84-0	NE	1,100	UJ	2,000	UJ	1,800	UJ	35,000	UJ	8,600	UJ	5,900	UJ
Fluoranthene		206-44-0	NE	**1,300**		**13,000**	**J**	**17,000**	**J**	**400,000**	**J**	**340,000**	**J**	**2,700**	**J**
Fluorene		86-73-7	NE	**140**	**J**	**2,700**	**J**	**3,400**	**J**	**320,000**	**J**	**250,000**	**J**	5,900	UJ
Hexachlorobenzene		118-74-1	NE	670	U	1,200	UJ	1000	UJ	21,000	UJ	5,200	UJ	3,600	UJ
1,3-Hexachlorobutadiene (C-46)		87-68-3	12000	1,100	U	2,000	UJ	1,800	UJ	35,000	UJ	8,600	UJ	5,900	UJ
Hexachlorocyclopentadiene		77-47-4	8100	3,200	U	5,800	UJ	5,000	UJ	100,000	UJ	25,000	UJ	17,000	UJ
Hexachloroethane		67-72-1	NE	890	U	1,600	UJ	1,400	UJ	28,000	UJ	6,900	UJ	4,700	UJ
Indeno(1,2,3-cd)pyrene		193-39-5	NE	**510**	**J**	**5,600**	**J**	**7,900**	**J**	**81,000**	**J**	**67,000**	**J**	**1000**	**J**
Isophorone		78-59-1	NE	1000	U	1,800	UJ	1,600	UJ	32,000	UJ	7,800	UJ	5,300	UJ
2-Methylnaphthalene		91-57-6	NE	1,300	U	**600**	**J**	**750**	**J**	**1,200,000**	**J**	**960,000**	**J**	7,100	UJ
2-Methylphenol (o-Cresol)		95-48-7	NE	1,100	U	2,000	UJ	1,800	UJ	35,000	UJ	8,600	UJ	5,900	UJ
3,4-Methylphenol (m,p-Cresol)		108394/106445	NE	1,600	U	2,900	UJ	2,500	UJ	51,000	UJ	12,000	UJ	8,500	UJ
Naphthalene		91-20-3	NE	1,100	U	**400**	**J**	**530**	**J**	**880,000**	**J**	**640,000**	**J**	5,900	UJ
2-Nitroaniline		88-74-4	NE	1,100	UJ	2,000	UJ	1,800	UJ	35,000	UJ	8,600	UJ	5,900	UJ
3-Nitroaniline		99-09-2	NE	1,100	U	2,000	UJ	1,800	UJ	35,000	UJ	8,600	UJ	5,900	UJ

Table 5C. Creek Shallow Sediment Boring Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

			Task Description	Scajaquada Creek Shallow Sediment Boring Sample Analytical Results											
			Sample Name	SED-BGL-1/0-0.5		SED-LSC-1/0-0.5		SED-LSC-2/0-0.5		SED-LSC-3/0-0.5		SED-LSC-DUP/0-0.5		SED-LSC-4/0-0.5	
			Start Depth	0		0		0		0		0		0	
			End Depth	0.5		0.5		0.5		0.5		0.5		0.5	
			Depth Unit	ft		ft		ft		ft		ft		ft	
			Sample Date	11/11/2021		11/11/2021		11/11/2021		11/11/2021		11/11/2021		11/11/2021	
			Parent Sample									SED-LSC-3/0-0.5			
Analyte	**Units**	**CAS No. or Identifier**	**Freshwater Sediment Guidance Values Class B**												
4-Nitroaniline		100-01-6	NE	1,100	U	2,000	UJ	1,800	UJ	35,000	UJ	8,600	UJ	5,900	UJ
Nitrobenzene		98-95-3	NE	1000	U	1,800	UJ	1,600	UJ	32,000	UJ	7,800	UJ	5,300	UJ
2-Nitrophenol		88-75-5	NE	2,400	UJ	4,400	UJ	3,800	UJ	76,000	UJ	19,000	UJ	13,000	UJ
4-Nitrophenol		100-02-7	NE	1,600	U	2,800	UJ	2,500	UJ	49,000	UJ	12,000	UJ	8,300	UJ
N-Nitrosodiphenylamine (NDFA)		86-30-6	NE	890	U	1,600	UJ	1,400	UJ	28,000	UJ	6,900	UJ	4,700	UJ
N-Nitrosodi-n-propylamine (NDPA)		621-64-7	NE	1,100	U	2,000	UJ	1,800	UJ	35,000	UJ	8,600	UJ	5,900	UJ
Pentachlorophenol		87-86-5	19000	890	U	1,600	UJ	1,400	UJ	28,000	UJ	6,900	UJ	4,700	UJ
Phenanthrene		85-01-8	NE	**590**	**J**	**14,000**	**J**	**13,000**	**J**	**1,200,000**	**J**	**1,100,000**	**J**	**990**	**J**
Phenol		108-95-2	NE	1,100	U	2,000	UJ	1,800	UJ	35,000	UJ	8,600	UJ	5,900	UJ
Pyrene		129-00-0	NE	**2,000**		**24,000**	**J**	**32,000**	**J**	**760,000**	**J**	**660,000**	**J**	**3,100**	**J**
1,2,4,5-Tetrachlorobenzene		95-94-3	14000	1,100	U	2,000	UJ	1,800	UJ	35,000	UJ	8,600	UJ	5,900	UJ
2,3,4,6-Tetrachlorophenol		58-90-2	NE	1,100	U	2,000	UJ	1,800	UJ	35,000	UJ	8,600	UJ	5,900	UJ
2,4,5-Trichlorophenol		95-95-4	NE	1,100	U	2,000	UJ	1,800	UJ	35,000	UJ	8,600	UJ	5,900	UJ
2,4,6-Trichlorophenol		88-06-2	NE	670	U	1,200	UJ	1000	UJ	21,000	UJ	5,200	UJ	3,600	UJ
Total PAH (16) (ND=0)		TPAH16_ND0	35000	**10,610**		**124,800**		**173,230**		**5,649,000**		**4,677,000**		**13,490**	
Total PAH (17) (ND=0)		TPAH17_ND0	35000	**10,610**		**125,400**		**173,980**		**6,849,000**		**5,637,000**		**13,490**	
PCBs (SW 8082A)	ug/kg														
Aroclor 1016		12674-11-2	NE	76.5	U	140	UJ	124	UJ	232	UJ	112	UJ	587	UJ
Aroclor 1221		11104-28-2	NE	76.5	U	140	UJ	124	UJ	232	UJ	112	UJ	587	UJ
Aroclor 1232		11141-16-5	NE	76.5	U	140	UJ	124	UJ	232	UJ	112	UJ	587	UJ
Aroclor 1242		53469-21-9	NE	76.5	U	140	UJ	124	UJ	232	UJ	112	UJ	587	UJ
Aroclor 1248		12672-29-6	NE	**90.1**		**472**	**J**	**421**	**J**	**475**	**J**	**250**	**J**	**628**	**J**
Aroclor 1254		11097-69-1	NE	76.5	U	**294**	**J**	**327**	**J**	**487**	**J**	**122**	**J**	**350**	**J**
Aroclor 1260		11096-82-5	NE	**36.4**	**J**	**182**	**J**	**408**	**J**	**144**	**J**	**75.4**	**J**	**249**	**J**
Aroclor 1262		37324-23-5	NE	76.5	U	140	UJ	124	UJ	232	UJ	112	UJ	587	UJ
Aroclor 1268		11100-14-4	NE	76.5	U	140	UJ	124	UJ	232	UJ	112	UJ	587	UJ
Total PCBs (Lab calculated)		1336-36-3	1000	**186**	**J**	**948**	**J**	**1,160**	**J**	**1,110**	**J**	**447**	**J**	**1,230**	**J**
PESTICIDES (SW 8081B)	ug/kg														
Aldrin		309-00-2	NE	10.9	R	6.61	UJ	6.16	UJ	112	UJ	55.2	UJ	30.6	R
alpha-BHC (Hexachlorocyclohexane)		319-84-6	NE	4.54	R	2.75	UJ	2.56	UJ	46.5	UJ	23	UJ	12.8	R
beta-BHC (beta-Hexachlorocyclohexane)		319-85-7	NE	10.9	R	6.61	UJ	6.16	UJ	112	UJ	55.2	UJ	30.6	R
gamma-BHC (gamma-Hexachlorocyclohexane) (Lindane)		58-89-9	78	4.54	R	2.75	UJ	2.56	UJ	46.5	UJ	23	UJ	12.8	R
delta-BHC (delta-Hexachlorocyclohexane)		319-86-8	NE	10.9	R	6.61	UJ	6.16	UJ	112	UJ	55.2	UJ	30.6	R
Chlordane (Technical)		12789-03-6	NE	90.9	R	55.1	UJ	51.3	UJ	930	UJ	460	UJ	255	R
alpha-chlordane		5103-71-9	NE	13.6	R	8.26	UJ	7.7	UJ	140	UJ	69	UJ	38.3	R
gamma-Chlordane		5103-74-2	NE	13.6	R	8.26	UJ	7.7	UJ	140	UJ	69	UJ	38.3	R

Table 5C. Creek Shallow Sediment Boring Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

			Task Description	Scajaquada Creek Shallow Sediment Boring Sample Analytical Results											
			Sample Name	SED-BGL-1/0-0.5		SED-LSC-1/0-0.5		SED-LSC-2/0-0.5		SED-LSC-3/0-0.5		SED-LSC-DUP/0-0.5		SED-LSC-4/0-0.5	
			Start Depth	0		0		0		0		0		0	
			End Depth	0.5		0.5		0.5		0.5		0.5		0.5	
			Depth Unit	ft		ft		ft		ft		ft		ft	
			Sample Date	11/11/2021		11/11/2021		11/11/2021		11/11/2021		11/11/2021		11/11/2021	
			Parent Sample									SED-LSC-3/0-0.5			
Analyte	**Units**	**CAS No. or Identifier**	**Freshwater Sediment Guidance Values Class B**												
4,4'-DDT (p,p'-DDT)		50-29-3	48000	20.4	R	**19.3**	**J**	11.5	UJ	209	UJ	103	UJ	57.5	R
4,4'-DDE (p,p'-DDE)		72-55-9	NE	10.9	R	**12**	**J**	6.16	UJ	112	UJ	55.2	UJ	30.6	R
4,4'-DDD (p,p-DDD)		72-54-8	NE	10.9	R	**10.4**	**J**	6.16	UJ	112	UJ	55.2	UJ	30.6	R
Dieldrin		60-57-1	780	6.82	R	4.13	UJ	3.85	UJ	69.8	UJ	34.5	UJ	19.2	R
alpha-Endosulfan (I)		959-98-8	NE	10.9	R	6.61	UJ	6.16	UJ	112	UJ	55.2	UJ	30.6	R
beta-Endosulfan (II)		33213-65-9	NE	10.9	R	6.61	UJ	6.16	UJ	112	UJ	55.2	UJ	30.6	R
Endosulfan sulfate		1031-07-8	NE	4.54	R	2.75	UJ	2.56	UJ	46.5	UJ	23	UJ	12.8	R
Endrin		72-20-8	220	4.54	R	2.75	UJ	2.56	UJ	46.5	UJ	23	UJ	12.8	R
Endrin aldehyde		7421-93-4	NE	13.6	R	8.26	UJ	7.7	UJ	140	UJ	69	UJ	38.3	R
Endrin ketone		53494-70-5	NE	10.9	R	6.61	UJ	6.16	UJ	112	UJ	55.2	UJ	30.6	R
Heptachlor		76-44-8	10000	5.45	R	3.3	UJ	3.08	UJ	55.8	UJ	27.6	UJ	15.3	R
Heptachlor epoxide		1024-57-3	2100	20.4	R	12.4	UJ	11.5	UJ	209	UJ	103	UJ	57.5	R
Methoxychlor		72-43-5	NE	20.4	R	12.4	UJ	11.5	UJ	209	UJ	103	UJ	57.5	R
Toxaphene		8001-35-2	250	204	R	124	UJ	115	UJ	2,090	UJ	1,030	UJ	575	R
HERBICIDES (SW 8151A)	ug/kg														
2,4-D (2,4-Dichlorophenoxyacetic acid)		94-75-7	NE	379	U	721	UJ	628	UJ	1,150	UJ	573	UJ	1,090	UJ
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)		93-76-5	NE	379	U	721	UJ	628	UJ	1,150	UJ	573	UJ	1,090	UJ
2,4,5-TP (Silvex)		93-72-1	NE	379	U	721	UJ	628	UJ	1,150	UJ	573	UJ	1,090	UJ
CYANIDES (SW 9012B)	mg/kg														
Total Cyanide		57-12-5	NE	2.2	UJ	4.3	UJ	3.5	UJ	6.5	UJ	3.3	UJ	6.4	UJ
METALS (SW 6010D)	mg/kg														
Aluminum		7429-90-5	NE	**5,920**		**10,200**	**J**	**11,500**	**J**	**14,100**	**J**	**40,500**	**J**	**19,100**	**J**
Antimony		7440-36-0	NE	8.96	U	16.7	UJ	15	UJ	26.4	UJ	13.7	UJ	24.9	UJ
Arsenic		7440-38-2	33	**5.77**	**J**	**8.44**	**J**	**9.96**	**J**	**12**	**J**	**11.4**	**J**	**15.6**	**J**
Barium		7440-39-3	NE	**68**		**141**	**J**	**174**	**J**	**175**	**J**	**287**	**J**	**196**	**J**
Beryllium		7440-41-7	NE	0.896	U	1.67	UJ	1.5	UJ	2.64	UJ	**2.06**	**J**	2.49	UJ
Cadmium		7440-43-9	5	**0.968**	**J**	**2.95**	**J**	**4.64**	**J**	**3.65**	**J**	**1.43**	**J**	**4.24**	**J**
Calcium		7440-70-2	NE	**211,000**		**82,500**	**J**	**92,900**	**J**	**137,000**	**J**	**96,200**	**J**	**111,000**	**J**
Chromium		7440-47-3	110	**33.6**	**J**	**58.3**	**J**	**67.4**	**J**	**81.9**	**J**	**62.3**	**J**	**85**	**J**
Cobalt		7440-48-4	NE	**4.46**		**8.87**	**J**	**9.63**	**J**	**14.4**	**J**	**36.6**	**J**	**15.8**	**J**
Copper		7440-50-8	150	**43**	**J**	**173**	**J**	**229**	**J**	**200**	**J**	**54.7**	**J**	**231**	**J**
Iron		7439-89-6	NE	**30,600**		**25,300**	**J**	**28,200**	**J**	**40,800**	**J**	**77,000**	**J**	**46,800**	**J**
Lead		7439-92-1	130	**40.6**	**J**	**208**	**J**	**277**	**J**	**326**	**J**	**25**	**J**	**310**	**J**
Magnesium		7439-95-4	NE	**12,400**		**13,800**	**J**	**13,000**	**J**	**28,800**	**J**	**30,400**	**J**	**22,400**	**J**
Manganese		7439-96-5	NE	**3,040**		**294**	**J**	**373**	**J**	**556**	**J**	**1,330**	**J**	**603**	**J**
Mercury (SW 7471B)		7439-97-6	1	0.146	U	**0.311**	**J**	**0.395**	**J**	**0.388**	**J**	0.218	UJ	**0.384**	**J**

Table 5C. Creek Shallow Sediment Boring Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

			Task Description	Scajaquada Creek Shallow Sediment Boring Sample Analytical Results											
			Sample Name	SED-BGL-1/0-0.5		SED-LSC-1/0-0.5		SED-LSC-2/0-0.5		SED-LSC-3/0-0.5		SED-LSC-DUP/0-0.5		SED-LSC-4/0-0.5	
			Start Depth	0		0		0		0		0		0	
			End Depth	0.5		0.5		0.5		0.5		0.5		0.5	
			Depth Unit	ft		ft		ft		ft		ft		ft	
			Sample Date	11/11/2021		11/11/2021		11/11/2021		11/11/2021		11/11/2021		11/11/2021	
			Parent Sample									SED-LSC-3/0-0.5			
Analyte	**Units**	**CAS No. or Identifier**	**Freshwater Sediment Guidance Values Class B**												
Nickel		7440-02-0	49	**11.9**		**27.3**	**J**	**32.7**	**J**	**48.7**	**J**	**79.8**	**J**	**49.6**	**J**
Potassium		7440-09-7	NE	**772**		**1,290**	**J**	**1,380**	**J**	**1,810**	**J**	**6,040**	**J**	**2,380**	**J**
Selenium		7782-49-2	NE	3.58	U	6.7	UJ	5.98	UJ	10.6	UJ	5.49	UJ	9.97	UJ
Silver		7440-22-4	2.2	1.79	U	3.35	UJ	**1.4**	**J**	5.29	UJ	2.74	UJ	4.98	UJ
Sodium		7440-23-5	NE	**539**	**J**	**771**	**J**	598	UJ	1,060	UJ	**1,050**	**J**	997	UJ
Thallium		7440-28-0	NE	**3.58**	**J**	**1.1**	**J**	**1.02**	**J**	10.6	UJ	**1.32**	**J**	9.97	UJ
Vanadium		7440-62-2	NE	**25.6**	**J**	**24.1**	**J**	**29.9**	**J**	**36.6**	**J**	**80.4**	**J**	**44.3**	**J**
Zinc		7440-66-6	460	**116**	**J**	**745**	**J**	**812**	**J**	**1,020**	**J**	**160**	**J**	**989**	**J**
VPH/EPH	mg/kg														
C5-C8 Aliphatics (MAVPH)		ALIPH5-8	NE	9.31	UJ	22.3	UJ	27	UJ	81.2	UJ	35.7	UJ	50.5	UJ
C5-C8 Aliphatics, Adjusted (MAVPH)		ALIPH5-8ADJ	NE	9.31	UJ	22.3	UJ	27	UJ	81.2	UJ	35.7	UJ	50.5	UJ
C9-C12 Aliphatics (MAVPH)		ALIPH9-12	NE	9.31	UJ	22.3	UJ	27	UJ	81.2	UJ	**37.4**	**J**	50.5	UJ
C9-C12 Aliphatics, Adjusted (MAVPH)		ALIPH9-12ADJ	NE	9.31	UJ	22.3	UJ	27	UJ	81.2	UJ	35.7	UJ	50.5	UJ
C9-C10 Aromatics (MAVPH)		AROM9-10	NE	9.31	UJ	22.3	UJ	27	UJ	81.2	UJ	35.7	UJ	50.5	UJ
Total EPH Fractions (NJ EPH R3)		TEPH	NE	**69.4**		**1,270**	**J**	**1,950**	**J**	**67,000**	**J**	**21,500**	**J**	**1,060**	**J**
GENERAL CHEMISTRY	mg/kg														
Ammonia (SM 4500-NH3 BH)		7664-41-7	NE	**32**	**J**	**250**	**J**	**180**	**J**	**310**	**J**	**170**	**J**	**220**	**J**
Percent Solids (SM 2540G)	%	SOLIDS	NE	**42.8**		**22.9**	**J**	**25.9**	**J**	**14.2**	**J**	**28.7**	**J**	**15.2**	**J**
Sulfide (SW 9030B)		18496-25-8	NE	**2,200**		**4,400**	**J**	**5,600**	**J**	**9,400**	**J**	**5,800**	**J**	**2,800**	**J**
TOTAL ORGANIC CARBON	%														
Total Organic Carbon (SW 9060A)		TOC	NE	**7.97**		**9.94**	**J**	**9.02**	**J**	**13.5**	**J**	**12.4**	**J**	**10.2**	**J**

Table 5C. Creek Shallow Sediment Boring Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

			Task Description	Scajaquada Creek Shallow Sediment Boring Sample Analytical Results							
			Sample Name	SED-LSC-5/0-0.5		SED-LSC-6/0-0.5		SED-LSC-7/0-0.5		SED-LSC-8/0-0.5	
			Start Depth	0		0		0		0	
			End Depth	0.5		0.5		0.5		0.5	
			Depth Unit	ft		ft		ft		ft	
			Sample Date	11/11/2021		11/3/2021		11/3/2021		11/3/2021	
			Parent Sample								
Analyte	**Units**	**CAS No. or Identifier**	**Freshwater Sediment Guidance Values Class B**								
VOCs (SW 8260C)	ug/kg										
Acetone		67-64-1	NE	**170**	**J**	**48**	**J**	**26**	**J**	**120**	**J**
Benzene		71-43-2	1900	**1.3**	**J**	0.9	UJ	0.44	UJ	**5.5**	**J**
Bromochloromethane		74-97-5	NE	3.7	UJ	3.6	UJ	1.7	UJ	3.2	UJ
Bromodichloromethane		75-27-4	NE	0.94	UJ	0.9	UJ	0.44	UJ	0.81	UJ
Bromoform		75-25-2	NE	7.5	UJ	7.2	UJ	3.5	UJ	6.5	UJ
Bromomethane		74-83-9	NE	3.7	UJ	3.6	UJ	1.7	UJ	3.2	UJ
Carbon disulfide		75-15-0	NE	19	UJ	18	UJ	8.7	UJ	16	UJ
Carbon tetrachloride		56-23-5	9600	1.9	UJ	1.8	UJ	0.87	UJ	1.6	UJ
Chlorobenzene		108-90-7	1700	0.94	UJ	0.9	UJ	0.44	UJ	0.81	UJ
Chloroethane		75-00-3	NE	3.7	UJ	3.6	UJ	1.7	UJ	3.2	UJ
Chloroform (Trichloromethane)		67-66-3	NE	2.8	UJ	2.7	UJ	1.3	UJ	2.4	UJ
Chloromethane		74-87-3	NE	7.5	UJ	7.2	UJ	3.5	UJ	6.5	UJ
Cyclohexane		110-82-7	NE	19	UJ	18	UJ	8.7	UJ	**1**	**J**
1,2-Dibromo-3-chloropropane		96-12-8	NE	5.6	UJ	5.4	UJ	2.6	UJ	4.9	UJ
Dibromochloromethane		124-48-1	NE	1.9	UJ	1.8	UJ	0.87	UJ	1.6	UJ
1,2-Dibromoethane (EDB)		106-93-4	NE	1.9	UJ	1.8	UJ	0.87	UJ	1.6	UJ
1,2-Dichlorobenzene (o-DCB)		95-50-1	2500	3.7	UJ	3.6	UJ	1.7	UJ	3.2	UJ
1,3-Dichlorobenzene (m-DCB)		541-73-1	7100	3.7	UJ	3.6	UJ	1.7	UJ	3.2	UJ
1,4-Dichlorobenzene (p-DCB)		106-46-7	3300	3.7	UJ	3.6	UJ	1.7	UJ	3.2	UJ
Dichlorodifluoromethane (Freon 12)		75-71-8	NE	19	UJ	18	UJ	8.7	UJ	16	UJ
1,1-Dichloroethane		75-34-3	NE	1.9	UJ	**0.6**	**J**	0.87	UJ	1.6	UJ
1,2-Dichloroethane		107-06-2	NE	1.9	UJ	1.8	UJ	0.87	UJ	1.6	UJ
1,1-Dichloroethene		75-35-4	4700	1.9	UJ	1.8	UJ	0.87	UJ	1.6	UJ
cis-1,2-Dichloroethene		156-59-2	NE	**0.48**	**J**	**4.4**	**J**	**0.3**	**J**	**0.72**	**J**
trans-1,2-Dichloroethene		156-60-5	11000	2.8	UJ	2.7	UJ	1.3	UJ	2.4	UJ
1,2-Dichloropropane		78-87-5	NE	1.9	UJ	1.8	UJ	0.87	UJ	1.6	UJ
cis-1,3-Dichloropropene		10061-01-5	NE	0.94	UJ	0.9	UJ	0.44	UJ	0.81	UJ
trans-1,3-Dichloropropene		10061-02-6	NE	1.9	UJ	1.8	UJ	0.87	UJ	1.6	UJ
1,4-Dioxane		123-91-1	NE		R		R		R		R
Ethylbenzene		100-41-4	3700	1.9	UJ	**0.36**	**J**	0.87	UJ	**20**	**J**
2-Hexanone		591-78-6	NE	19	UJ	18	UJ	8.7	UJ	16	UJ
Isopropylbenzene		98-82-8	1800	1.9	UJ	1.8	UJ	0.87	UJ	**13**	**J**
Methyl acetate		79-20-9	NE	7.5	UJ	7.2	UJ	3.5	UJ	6.5	UJ
Methyl ethyl ketone (2-Butanone)		78-93-3	NE	**32**	**J**	18	UJ	8.7	UJ	**13**	**J**

Table 5C. Creek Shallow Sediment Boring Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

			Task Description	Scajaquada Creek Shallow Sediment Boring Sample Analytical Results							
			Sample Name	SED-LSC-5/0-0.5		SED-LSC-6/0-0.5		SED-LSC-7/0-0.5		SED-LSC-8/0-0.5	
			Start Depth	0		0		0		0	
			End Depth	0.5		0.5		0.5		0.5	
			Depth Unit	ft		ft		ft		ft	
			Sample Date	11/11/2021		11/3/2021		11/3/2021		11/3/2021	
			Parent Sample								
Analyte	**Units**	**CAS No. or Identifier**	**Freshwater Sediment Guidance Values Class B**								
Methyl tert-butyl ether (MTBE)		1634-04-4	NE	3.7	UJ	3.6	UJ	1.7	UJ	3.2	UJ
4-Methyl-2-pentanone (MIBK)		108-10-1	NE	19	UJ	18	UJ	8.7	UJ	16	UJ
Methylcyclohexane		108-87-2	NE	7.5	UJ	7.2	UJ	3.5	UJ	**2.5**	**J**
Methylene chloride		75-09-2	NE	9.4	UJ	9	UJ	4.4	UJ	8.1	UJ
Styrene		100-42-5	NE	1.9	UJ	1.8	UJ	0.87	UJ	1.6	UJ
1,1,2,2-Tetrachloroethane		79-34-5	5400	0.94	UJ	0.9	UJ	0.44	UJ	0.81	UJ
Tetrachloroethene (PCE)		127-18-4	57000	0.94	UJ	0.9	UJ	0.44	UJ	0.81	UJ
Toluene		108-88-3	4500	1.9	UJ	1.8	UJ	0.87	UJ	1.6	UJ
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		76-13-1	NE	7.5	UJ	7.2	UJ	3.5	UJ	6.5	UJ
1,2,3-Trichlorobenzene		87-61-6	2800	3.7	UJ	3.6	UJ	1.7	UJ	3.2	UJ
1,2,4-Trichlorobenzene		120-82-1	55000	3.7	UJ	3.6	UJ	1.7	UJ	3.2	UJ
1,1,1-Trichloroethane (TCA)		71-55-6	3500	0.94	UJ	0.9	UJ	0.44	UJ	0.81	UJ
1,1,2-Trichloroethane		79-00-5	3500	1.9	UJ	1.8	UJ	0.87	UJ	1.6	UJ
Trichloroethene (TCE)		79-01-6	8600	0.94	UJ	0.9	UJ	0.44	UJ	0.81	UJ
Trichlorofluoromethane (Freon 11)		75-69-4	NE	7.5	UJ	7.2	UJ	3.5	UJ	6.5	UJ
Vinyl chloride		75-01-4	NE	1.9	UJ	1.8	UJ	0.87	UJ	1.6	UJ
o-Xylene		95-47-6	7200	1.9	UJ	1.8	UJ	0.87	UJ	**6.2**	**J**
m/p-Xylene		179601-23-1	4200	3.7	UJ	3.6	UJ	1.7	UJ	**2.2**	**J**
SVOCs (SW 8270D)	ug/kg										
Acenaphthene		83-32-9	NE	3,200	UJ	2,000	UJ	**160**	**J**	**2,600**	**J**
Acenaphthylene		208-96-8	NE	3,200	UJ	2,000	UJ	**320**	**J**	**4,400**	**J**
Acetophenone		98-86-2	NE	4,000	UJ	2,500	UJ	1,400	U	2,100	UJ
Anthracene		120-12-7	NE	2,400	UJ	1,500	UJ	810	U	**8,300**	**J**
Atrazine		1912-24-9	NE	3,200	UJ	2,000	UJ	1,100	UJ	1,700	UJ
Benzaldehyde		100-52-7	NE	5,300	UJ	3,200	UJ	1,800	U	2,800	UJ
Benzo(a)anthracene		56-55-3	NE	**1000**	**J**	**960**	**J**	**760**	**J**	**11,000**	**J**
Benzo(b)fluoranthene		205-99-2	NE	**1,600**	**J**	**1,500**	**J**	**1,200**		**8,800**	**J**
Benzo(k)fluoranthene		207-08-9	NE	2,400	UJ	**430**	**J**	**370**	**J**	**3,000**	**J**
Benzo(g,h,i)perylene		191-24-2	NE	**900**	**J**	**960**	**J**	**800**	**J**	**6,000**	**J**
Benzo(a)pyrene		50-32-8	NE	**1,100**	**J**	**1,200**	**J**	**1,100**		**11,000**	**J**
Biphenyl (1,1-Biphenyl)		92-52-4	NE	9,100	UJ	5,600	UJ	3,100	U	**600**	**J**
Bis(2-chloroethoxy)methane		111-91-1	NE	4,300	UJ	2,600	UJ	1,500	U	2,300	UJ
Bis(2-chloroethyl)ether		111-44-4	NE	3,600	UJ	2,200	UJ	1,200	U	1,900	UJ
2,2-oxybis(1-Chloropropane)		108-60-1	NE	4,800	UJ	3,000	UJ	1,600	UJ	2,500	UJ
Bis(2-ethylhexyl)phthalate		117-81-7	360000	4,000	UJ	2,500	UJ	1,400	U	**1000**	**J**
4-Bromophenyl phenyl ether		101-55-3	NE	4,000	UJ	2,500	UJ	1,400	U	2,100	UJ

Table 5C. Creek Shallow Sediment Boring Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

			Task Description	Scajaquada Creek Shallow Sediment Boring Sample Analytical Results							
			Sample Name	SED-LSC-5/0-0.5		SED-LSC-6/0-0.5		SED-LSC-7/0-0.5		SED-LSC-8/0-0.5	
			Start Depth	0		0		0		0	
			End Depth	0.5		0.5		0.5		0.5	
			Depth Unit	ft		ft		ft		ft	
			Sample Date	11/11/2021		11/3/2021		11/3/2021		11/3/2021	
			Parent Sample								
Analyte	**Units**	**CAS No. or Identifier**	**Freshwater Sediment Guidance Values Class B**								
Butyl benzyl phthalate		85-68-7	NE	4,000	UJ	2,500	UJ	1,400	U	2,100	UJ
Caprolactam		105-60-2	NE	4,000	UJ	2,500	UJ	1,400	U	2,100	UJ
Carbazole		86-74-8	NE	4,000	UJ	2,500	UJ	1,400	U	**330**	**J**
4-Chloro-3-methylphenol		59-50-7	NE	4,000	UJ	2,500	UJ	1,400	U	2,100	UJ
4-Chloroaniline		106-47-8	NE	4,000	UJ	2,500	UJ	1,400	U	2,100	UJ
2-Chloronaphthalene		91-58-7	NE	4,000	UJ	2,500	UJ	1,400	U	2,100	UJ
2-Chlorophenol		95-57-8	NE	4,000	UJ	2,500	UJ	1,400	U	2,100	UJ
4-Chlorophenyl phenyl ether		7005-72-3	NE	4,000	UJ	2,500	UJ	1,400	U	2,100	UJ
Chrysene		218-01-9	NE	**1,200**	**J**	**1,100**	**J**	**880**		**9,200**	**J**
Dibenz(a,h)anthracene		53-70-3	NE	2,400	UJ	1,500	UJ	**160**	**J**	**1,200**	**J**
Dibenzofuran		132-64-9	NE	4,000	UJ	2,500	UJ	1,400	U	**510**	**J**
3,3-Dichlorobenzidine		91-94-1	NE	4,000	UJ	2,500	UJ	1,400	U	2,100	UJ
2,4-Dichlorophenol		120-83-2	NE	3,600	UJ	2,200	UJ	1,200	U	1,900	UJ
Diethyl phthalate		84-66-2	NE	4,000	UJ	2,500	UJ	1,400	U	2,100	UJ
Dimethyl phthalate		131-11-3	NE	4,000	UJ	2,500	UJ	1,400	U	2,100	UJ
2,4-Dimethylphenol		105-67-9	NE	4,000	UJ	2,500	UJ	1,400	U	2,100	UJ
Di-n-butyl phthalate		84-74-2	NE	4,000	UJ	2,500	UJ	1,400	U	2,100	UJ
4,6-Dinitro-2-methylphenol		534-52-1	NE	10,000	UJ	6,400	UJ	3,500	U	5,500	UJ
2,4-Dinitrophenol		51-28-5	NE	19,000	UJ	12,000	UJ	6,500	U	10,000	UJ
2,4-Dinitrotoluene		121-14-2	NE	4,000	UJ	2,500	UJ	1,400	U	2,100	UJ
2,6-Dinitrotoluene		606-20-2	NE	4,000	UJ	2,500	UJ	1,400	U	2,100	UJ
Di-n-octyl phthalate		117-84-0	NE	4,000	UJ	2,500	UJ	1,400	U	2,100	UJ
Fluoranthene		206-44-0	NE	**2,200**	**J**	**1,900**	**J**	**1,500**		**17,000**	**J**
Fluorene		86-73-7	NE	4,000	UJ	2,500	UJ	1,400	U	**3,400**	**J**
Hexachlorobenzene		118-74-1	NE	2,400	UJ	1,500	UJ	810	U	1,300	UJ
1,3-Hexachlorobutadiene (C-46)		87-68-3	12000	4,000	UJ	2,500	UJ	1,400	U	2,100	UJ
Hexachlorocyclopentadiene		77-47-4	8100	11,000	UJ	7,000	UJ	3,900	U	6,100	UJ
Hexachloroethane		67-72-1	NE	3,200	UJ	2,000	UJ	1,100	U	1,700	UJ
Indeno(1,2,3-cd)pyrene		193-39-5	NE	**850**	**J**	**1,400**	**J**	**930**	**J**	**5,200**	**J**
Isophorone		78-59-1	NE	3,600	UJ	2,200	UJ	1,200	U	1,900	UJ
2-Methylnaphthalene		91-57-6	NE	4,800	UJ	3,000	UJ	1,600	U	**620**	**J**
2-Methylphenol (o-Cresol)		95-48-7	NE	4,000	UJ	2,500	UJ	1,400	U	2,100	UJ
3,4-Methylphenol (m,p-Cresol)		108394/106445	NE	5,800	UJ	3,500	UJ	2,000	U	3,000	UJ
Naphthalene		91-20-3	NE	4,000	UJ	2,500	UJ	1,400	U	**900**	**J**
2-Nitroaniline		88-74-4	NE	4,000	UJ	2,500	UJ	1,400	U	2,100	UJ
3-Nitroaniline		99-09-2	NE	4,000	UJ	2,500	UJ	1,400	U	2,100	UJ

Table 5C. Creek Shallow Sediment Boring Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

			Task Description	Scajaquada Creek Shallow Sediment Boring Sample Analytical Results							
			Sample Name	SED-LSC-5/0-0.5		SED-LSC-6/0-0.5		SED-LSC-7/0-0.5		SED-LSC-8/0-0.5	
			Start Depth	0		0		0		0	
			End Depth	0.5		0.5		0.5		0.5	
			Depth Unit	ft		ft		ft		ft	
			Sample Date	11/11/2021		11/3/2021		11/3/2021		11/3/2021	
			Parent Sample								
Analyte	**Units**	**CAS No. or Identifier**	**Freshwater Sediment Guidance Values Class B**								
4-Nitroaniline		100-01-6	NE	4,000	UJ	2,500	UJ	1,400	U	2,100	UJ
Nitrobenzene		98-95-3	NE	3,600	UJ	2,200	UJ	1,200	U	1,900	UJ
2-Nitrophenol		88-75-5	NE	8,600	UJ	5,300	UJ	2,900	U	4,600	UJ
4-Nitrophenol		100-02-7	NE	5,600	UJ	3,400	UJ	1,900	U	3,000	UJ
N-Nitrosodiphenylamine (NDFA)		86-30-6	NE	3,200	UJ	2,000	UJ	1,100	U	1,700	UJ
N-Nitrosodi-n-propylamine (NDPA)		621-64-7	NE	4,000	UJ	2,500	UJ	1,400	U	2,100	UJ
Pentachlorophenol		87-86-5	19000	3,200	UJ	2,000	UJ	1,100	U	1,700	UJ
Phenanthrene		85-01-8	NE	**1000**	**J**	**890**	**J**	**740**	**J**	**28,000**	**J**
Phenol		108-95-2	NE	4,000	UJ	2,500	UJ	1,400	U	2,100	UJ
Pyrene		129-00-0	NE	**2,500**	**J**	**2,300**	**J**	**1,600**		**31,000**	**J**
1,2,4,5-Tetrachlorobenzene		95-94-3	14000	4,000	UJ	2,500	UJ	1,400	U	2,100	UJ
2,3,4,6-Tetrachlorophenol		58-90-2	NE	4,000	UJ	2,500	UJ	1,400	U	2,100	UJ
2,4,5-Trichlorophenol		95-95-4	NE	4,000	UJ	2,500	UJ	1,400	U	2,100	UJ
2,4,6-Trichlorophenol		88-06-2	NE	2,400	UJ	1,500	UJ	810	U	1,300	UJ
Total PAH (16) (ND=0)		TPAH16_ND0	35000	**12,350**		**12,640**		**10,520**		**151,000**	
Total PAH (17) (ND=0)		TPAH17_ND0	35000	**12,350**		**12,640**		**10,520**		**151,620**	
PCBs (SW 8082A)	ug/kg										
Aroclor 1016		12674-11-2	NE	134	UJ	485	UJ	246	U	43.3	UJ
Aroclor 1221		11104-28-2	NE	134	UJ	485	UJ	246	U	43.3	UJ
Aroclor 1232		11141-16-5	NE	134	UJ	485	UJ	246	U	43.3	UJ
Aroclor 1242		53469-21-9	NE	134	UJ	485	UJ	246	U	43.3	UJ
Aroclor 1248		12672-29-6	NE	**313**	**J**	**195**	**J**	**153**	**J**	**47.9**	**J**
Aroclor 1254		11097-69-1	NE	**181**	**J**	**126**	**J**	**84.4**	**J**	**24**	**J**
Aroclor 1260		11096-82-5	NE	**131**	**J**	485	UJ	**55.6**	**J**	**15.7**	**J**
Aroclor 1262		37324-23-5	NE	134	UJ	485	UJ	246	U	43.3	UJ
Aroclor 1268		11100-14-4	NE	134	UJ	485	UJ	246	U	43.3	UJ
Total PCBs (Lab calculated)		1336-36-3	1000	**625**	**J**	**321**	**J**	**293**	**J**	**87.6**	**J**
PESTICIDES (SW 8081B)	ug/kg										
Aldrin		309-00-2	NE	19.2	R	115	UJ	68.7	U	101	UJ
alpha-BHC (Hexachlorocyclohexane)		319-84-6	NE	8.02	R	47.8	UJ	28.6	U	42.2	UJ
beta-BHC (beta-Hexachlorocyclohexane)		319-85-7	NE	19.2	R	115	UJ	68.7	U	101	UJ
gamma-BHC (gamma-Hexachlorocyclohexane) (Lindane)		58-89-9	78	8.02	R	47.8	UJ	28.6	U	42.2	UJ
delta-BHC (delta-Hexachlorocyclohexane)		319-86-8	NE	19.2	R	115	UJ	68.7	U	101	UJ
Chlordane (Technical)		12789-03-6	NE	160	R	955	UJ	572	U	845	UJ
alpha-chlordane		5103-71-9	NE	24	R	143	UJ	85.8	U	127	UJ
gamma-Chlordane		5103-74-2	NE	24	R	143	UJ	85.8	U	127	UJ

Table 5C. Creek Shallow Sediment Boring Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

			Task Description	Scajaquada Creek Shallow Sediment Boring Sample Analytical Results							
			Sample Name	SED-LSC-5/0-0.5		SED-LSC-6/0-0.5		SED-LSC-7/0-0.5		SED-LSC-8/0-0.5	
			Start Depth	0		0		0		0	
			End Depth	0.5		0.5		0.5		0.5	
			Depth Unit	ft		ft		ft		ft	
			Sample Date	11/11/2021		11/3/2021		11/3/2021		11/3/2021	
			Parent Sample								
Analyte	**Units**	**CAS No. or Identifier**	**Freshwater Sediment Guidance Values Class B**								
4,4'-DDT (p,p'-DDT)		50-29-3	48000	36.1	R	215	UJ	129	U	190	UJ
4,4'-DDE (p,p'-DDE)		72-55-9	NE	19.2	R	115	UJ	68.7	U	101	UJ
4,4'-DDD (p,p-DDD)		72-54-8	NE	19.2	R	115	UJ	68.7	U	101	UJ
Dieldrin		60-57-1	780	12	R	71.6	UJ	42.9	U	63.4	UJ
alpha-Endosulfan (I)		959-98-8	NE	19.2	R	115	UJ	68.7	U	101	UJ
beta-Endosulfan (II)		33213-65-9	NE	19.2	R	115	UJ	68.7	U	101	UJ
Endosulfan sulfate		1031-07-8	NE	8.02	R	47.8	UJ	28.6	U	42.2	UJ
Endrin		72-20-8	220	8.02	R	47.8	UJ	28.6	U	42.2	UJ
Endrin aldehyde		7421-93-4	NE	24	R	143	UJ	85.8	UJ	127	UJ
Endrin ketone		53494-70-5	NE	19.2	R	115	UJ	68.7	U	101	UJ
Heptachlor		76-44-8	10000	9.62	R	57.3	UJ	34.3	U	50.7	UJ
Heptachlor epoxide		1024-57-3	2100	36.1	R	215	UJ	129	U	190	UJ
Methoxychlor		72-43-5	NE	36.1	R	215	UJ	129	U	190	UJ
Toxaphene		8001-35-2	250	361	R	2,150	UJ	1,290	U	1,900	UJ
HERBICIDES (SW 8151A)	ug/kg										
2,4-D (2,4-Dichlorophenoxyacetic acid)		94-75-7	NE	665	UJ	858	UJ	479	U	708	UJ
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)		93-76-5	NE	665	UJ	858	UJ	479	U	708	UJ
2,4,5-TP (Silvex)		93-72-1	NE	665	UJ	858	UJ	479	U	708	UJ
CYANIDES (SW 9012B)	mg/kg										
Total Cyanide		57-12-5	NE	3.8	UJ	5.2	UJ	2.6	UJ	4.3	UJ
METALS (SW 6010D)	mg/kg										
Aluminum		7429-90-5	NE	**10,400**	**J**	**9,290**	**J**	**5,750**		**11,200**	**J**
Antimony		7440-36-0	NE	15.8	UJ	20.4	UJ	11.2	U	17	UJ
Arsenic		7440-38-2	33	**6.33**	**J**	**9.08**	**J**	**5.66**		**7.44**	**J**
Barium		7440-39-3	NE	**148**	**J**	**128**	**J**	**77.9**		**136**	**J**
Beryllium		7440-41-7	NE	1.58	UJ	**0.489**	**J**	**0.334**	**J**	**0.612**	**J**
Cadmium		7440-43-9	5	**1.17**	**J**	**1.96**	**J**	**1.18**	**J**	**2.45**	**J**
Calcium		7440-70-2	NE	**316,000**	**J**	**81,800**	**J**	**92,800**		**75,500**	**J**
Chromium		7440-47-3	110	**31.1**	**J**	**44**	**J**	**28.2**		**54.6**	**J**
Cobalt		7440-48-4	NE	**4.94**	**J**	**7.86**	**J**	**5.49**		**8.98**	**J**
Copper		7440-50-8	150	**81.1**	**J**	**152**	**J**	**84.2**	**J**	**151**	**J**
Iron		7439-89-6	NE	**16,300**	**J**	**25,800**	**J**	**17,300**	**J**	**26,400**	**J**
Lead		7439-92-1	130	**95**	**J**	**199**	**J**	**101**	**J**	**179**	**J**
Magnesium		7439-95-4	NE	**70,200**	**J**	**9,850**	**J**	**6,730**		**13,000**	**J**
Manganese		7439-96-5	NE	**2,230**	**J**	**348**	**J**	**236**	**J**	**379**	**J**
Mercury (SW 7471B)		7439-97-6	1	0.256	UJ	**0.261**	**J**	**0.156**	**J**	**0.342**	**J**

Table 5C. Creek Shallow Sediment Boring Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

			Task Description	Scajaquada Creek Shallow Sediment Boring Sample Analytical Results							
			Sample Name	SED-LSC-5/0-0.5		SED-LSC-6/0-0.5		SED-LSC-7/0-0.5		SED-LSC-8/0-0.5	
			Start Depth	0		0		0		0	
			End Depth	0.5		0.5		0.5		0.5	
			Depth Unit	ft		ft		ft		ft	
			Sample Date	11/11/2021		11/3/2021		11/3/2021		11/3/2021	
			Parent Sample								
Analyte	**Units**	**CAS No. or Identifier**	**Freshwater Sediment Guidance Values Class B**								
Nickel		7440-02-0	49	**14.2**	**J**	**23.3**	**J**	**16.3**		**27.9**	**J**
Potassium		7440-09-7	NE	**1,680**	**J**	**1,460**	**J**	**774**		**1,510**	**J**
Selenium		7782-49-2	NE	6.33	UJ	**1.63**	**J**	**1.36**	**J**	**1.84**	**J**
Silver		7440-22-4	2.2	3.16	UJ	4.07	UJ	2.23	U	3.4	UJ
Sodium		7440-23-5	NE	**1,530**	**J**	**654**	**J**	**599**	**J**	**802**	**J**
Thallium		7440-28-0	NE	**2.5**	**J**	8.15	UJ	4.46	U	6.8	UJ
Vanadium		7440-62-2	NE	**15.3**	**J**	**23**	**J**	**16**		**26.3**	**J**
Zinc		7440-66-6	460	**304**	**J**	**589**	**J**	**324**	**J**	**645**	**J**
VPH/EPH	mg/kg										
C5-C8 Aliphatics (MAVPH)		ALIPH5-8	NE	37.5	UJ	30	UJ	15.4	UJ	30.4	UJ
C5-C8 Aliphatics, Adjusted (MAVPH)		ALIPH5-8ADJ	NE	37.5	UJ	30	UJ	15.4	UJ	30.4	UJ
C9-C12 Aliphatics (MAVPH)		ALIPH9-12	NE	37.5	UJ	30	UJ	15.4	UJ	30.4	UJ
C9-C12 Aliphatics, Adjusted (MAVPH)		ALIPH9-12ADJ	NE	37.5	UJ	30	UJ	15.4	UJ	30.4	UJ
C9-C10 Aromatics (MAVPH)		AROM9-10	NE	37.5	UJ	30	UJ	15.4	UJ	30.4	UJ
Total EPH Fractions (NJ EPH R3)		TEPH	NE	**303**	**J**	**526**	**J**	177	U	269	UJ
GENERAL CHEMISTRY	mg/kg										
Ammonia (SM 4500-NH3 BH)		7664-41-7	NE	**53**	**J**	**84**	**J**	**29**	**J**	**85**	**J**
Percent Solids (SM 2540G)	%	SOLIDS	NE	**24.5**	**J**	**19**		**34.2**		**22.8**	
Sulfide (SW 9030B)		18496-25-8	NE	**10,000**	**J**	**5,200**	**J**	**2,200**	**J**	**4,800**	**J**
TOTAL ORGANIC CARBON	%										
Total Organic Carbon (SW 9060A)		TOC	NE	**11.2**	**J**	**4.67**	**J**	**7.95**		**7.96**	**J**

Table 5C. Creek Shallow Sediment Boring Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

Notes:

Sample depth is upper 0.5 feet of surface sediment
mg/kg = milligrams/kilogram or parts per million (ppm)
% = Percent
ug/kg = micrograms per kilogram

PAH = Polycyclic Aromatic Hydrocarbon
PCB = Polychlorinated Biphenyl
SVOC = Semi-Volatile Organic Compound
VOC = Volatile Organic Compound

CAS No. = Chemical Abstracts Service Number
ND = Not Detected
NE = Not Established

Bolding indicates a detected result concentration
Shading and bolding indicate that the detected concentration is above the maximum range of sediment guidance values

Validation Qualifiers:

J = The result is an estimated value.
JN = The analyte is presumptively present at an approximated quantity.
R = The result is rejected.
U = The result was not detected above the reporting limit.
UJ = The results was not detected at or above the reporting limit shown and the reporting limit is estimated.

1,4-Dioxane - Rejected Data

Due to the extremely low calibration response factor for 1,4-dioxane under Method 8260C, this compound is typically rejected during validation as it does not meet the minimal criteria set for accurate quantitation. Non-detect results for 1,4-dioxane are rejected as the presence or absence of the compound cannot be verified. Positive results are estimated due to the high variability inherent in the quantitation when using an extremely low response factor.

Table 5D. Creek Deeper Sediment Boring Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

						Task Description	Creek Deeper Sediment Boring Sample Analytical Results																	
						Sample Name	SED-BGL-1/12-14		SED-LSC-1/11-15		SED-LSC-2/14-16		SED-LSC-3/13-16		SED-LSC-4/14-16		SED-LSC-5/14-16		SED-LSC-6/12-19.5		SED-LSC-7/12-18		SED-LSC-8/6.8-15	
						Start Depth	562.2		563.1		560.1		561.1		560.0		560.0		561.2		561.8		566.6	
						End Depth	560.2		559.1		558.1		558.1		550.0		550.0		553.7		553.8		558.4	
						Depth Unit	Elevation ft		Elevation ft		Elevation ft		Elevation ft		Elevation ft		Elevation ft		Elevation ft		Elevation ft		Elevation ft	
						Sample Depth Interval (ft) below Top of Sediment	1.0 to 3.0		4.5 to 8.5		8.0 to 10.0		5.2 to 8.2		4.7 to 6.7		5.2 to 7.2		3.5 to 11.0		4.0 to 12.0		0 to 8.2	
						Sample Date	11/10/2021		11/9/2021		11/9/2021		11/9/2021		11/10/2021		11/10/2021		11/3/2021		11/3/2021		11/3/2021	
Analyte	**Units**	**CAS No. or Identifier**	**375-6.8(a) Unrestricted SCO**	**375-6.8(b) Protection of Ecological Resources SCO**	**Freshwater Sediment Guidance Values Class B**	**NY CP-51 RESTRICTED USE ECO SSCO**																		
VOCs (SW 8260C)	ug/kg																							
Acetone		67-64-1	50	2200	NE	NE	9.4	UJ	3,000	U	1,300	U	2,000	U	**5**	**J**	**12**		920	U	**37**	**J**	**40**	**J**
Benzene		71-43-2	60	70000	1900	NE	0.47	U	**11000**		**12000**		**46000**		**43**		**3200**		**460**		**350**	**J**	**550**	
Bromochloromethane		74-97-5	NE	NE	NE	NE	1.9	U	590	U	270	U	400	U	1.7	U	2.5	U	180	U	4	UJ	2.5	UJ
Bromodichloromethane		75-27-4	NE	NE	NE	NE	0.47	U	150	UJ	67	UJ	100	U	0.42	U	0.62	U	46	U	0.99	UJ	0.63	UJ
Bromoform		75-25-2	NE	NE	NE	NE	3.8	U	1,200	U	530	U	810	U	3.3	U	5	U		U	7.9	UJ	5	UJ
Bromomethane		74-83-9	NE	NE	NE	NE	1.9	U	590	U	270	U	400	U	1.7	U	2.5	UJ	180	U	4	UJ	2.5	UJ
Carbon disulfide		75-15-0	NE	NE	NE	NE	9.4	U	3,000	UJ	1,300	UJ	2,000	UJ	8.4	UJ	12	UJ	920	U	20	UJ	13	UJ
Carbon tetrachloride		56-23-5	760	NE	9600	NE	0.94	U	300	U	130	U	200	U	0.84	U	1.2	U	92	U	2	UJ	1.3	UJ
Chlorobenzene		108-90-7	1100	40000	1700	NE	0.47	U	150	U	67	U	100	U	0.42	U	0.62	U	46	U	0.99	UJ	0.63	UJ
Chloroethane		75-00-3	NE	NE	NE	NE	1.9	UJ	590	U	270	U	400	U	1.7	U	2.5	UJ	180	U	4	UJ	**50**	**J**
Chloroform (Trichloromethane)		67-66-3	370	12000	NE	NE	1.4	U	440	U	200	U	300	U	1.2	U	1.9	U	140	U	3	UJ	1.9	UJ
Chloromethane		74-87-3	NE	NE	NE	NE	3.8	U	1,200	U	530	U	810	U	3.3	U	5	U	370	U	7.9	UJ	5	UJ
Cyclohexane		110-82-7	NE	NE	NE	NE	9.4	U	3,000	U	1,300	U	2,000	U	8.4	U	**1.2**	**J**	**56**	**J**	**1.2**	**J**	**2.8**	**J**
1,2-Dibromo-3-chloropropane		96-12-8	NE	NE	NE	NE	2.8	UJ	890	U	400	U	610	U	2.5	U	3.8	U	280	U	6	UJ	3.8	UJ
Dibromochloromethane		124-48-1	NE	NE	NE	10000	0.94	U	300	U	130	U	200	U	0.84	U	1.2	U	92	U	2	UJ	1.3	UJ
1,2-Dibromoethane (EDB)		106-93-4	NE	NE	NE	NE	0.94	U	300	U	130	U	200	U	0.84	U	1.2	U	92	U	2	UJ	1.3	UJ
1,2-Dichlorobenzene (o-DCB)		95-50-1	1100	NE	2500	NE	1.9	U	590	U	270	U	**69**	**J**	1.7	U	**0.3**	**J**	180	U	4	UJ	**0.2**	**J**
1,3-Dichlorobenzene (m-DCB)		541-73-1	2400	NE	7100	NE	1.9	U	590	U	270	U	400	U	1.7	U	2.5	U	180	U	4	UJ	2.5	UJ
1,4-Dichlorobenzene (p-DCB)		106-46-7	1800	20000	3300	NE	1.9	U	590	U	270	U	**150**	**J**	1.7	U	**0.34**	**J**	180	U	4	UJ	2.5	UJ
Dichlorodifluoromethane (Freon 12)		75-71-8	NE	NE	NE	NE	9.4	U	3,000	U	1,300	U	2,000	UJ	8.4	U	12	UJ	920	U	20	UJ	13	UJ
1,1-Dichloroethane		75-34-3	270	NE	NE	NE	0.94	U	300	U	130	U	200	U	0.84	U	1.2	U	92	U	2	UJ	1.3	UJ
1,2-Dichloroethane		107-06-2	20	10000	NE	NE	0.94	U	300	U	130	U	200	U	**1.1**		1.2	U	92	U	2	UJ	1.3	UJ
1,1-Dichloroethene		75-35-4	330	NE	4700	NE	0.94	U	300	U	130	U	200	U	0.84	U	1.2	U	92	U	2	UJ	1.3	UJ
cis-1,2-Dichloroethene		156-59-2	250	NE	NE	NE	0.94	U	300	U	130	U	200	U	**0.5**	**J**	**5.2**		**1,900**		**1.7**	**J**	**0.64**	**J**
trans-1,2-Dichloroethene		156-60-5	190	NE	11000	NE	1.4	U	440	U	200	U	300	U	1.2	U	1.9	U	**300**		3	UJ	**0.18**	**J**
1,2-Dichloropropane		78-87-5	NE	NE	NE	700000	0.94	U	300	U	130	U	200	U	0.84	U	1.2	U	92	U	2	UJ	1.3	UJ
cis-1,3-Dichloropropene		10061-01-5	NE	NE	NE	NE	0.47	U	150	U	67	U	100	U	0.42	U	0.62	U	46	U	0.99	UJ	0.63	UJ
trans-1,3-Dichloropropene		10061-02-6	NE	NE	NE	NE	0.94	U	300	U	130	U	200	U	0.84	U	1.2	U	92	U	2	UJ	1.3	UJ
1,4-Dioxane		123-91-1	100	100	NE	NE		R		R		R		R		R		R		R		R		R
Ethylbenzene		100-41-4	1000	NE	3700	NE	**0.22**	**J**	**110000**		**76000**		**13000**		**120**		**12000**		**17000**		**700**		**5900**	
2-Hexanone		591-78-6	NE	NE	NE	NE	9.4	UJ	3,000	U	1,300	U	2,000	U	8.4	U	12	U	920	U	20	UJ	13	UJ
Isopropylbenzene		98-82-8	NE	NE	1800	NE	0.94	U	**12000**		**5300**		**6400**	**J**	**9.7**		**660**		**1900**		**250**	**J**	**710**	
Methyl acetate		79-20-9	NE	NE	NE	NE	3.8	UJ	**1,400**	**J**	530	U	**700**	**J**	3.3	U	5	U	**500**		**61**	**J**	**360**	**J**
Methyl ethyl ketone (2-Butanone)		78-93-3	120	100000	NE	NE	9.4	UJ	3,000	U	1,300	U	**480**	**J**	8.4	U	12	U	920	U	**8.4**	**J**	13	UJ
Methyl tert-butyl ether (MTBE)		1634-04-4	930	NE	NE	NE	1.9	U	590	U	270	U	400	U	1.7	U	2.5	U	180	U	4	UJ	2.5	UJ
4-Methyl-2-pentanone (MIBK)		108-10-1	NE	NE	NE	NE	9.4	UJ	3,000	U	1,300	U	2,000	U	8.4	U	12	U	920	U	20	UJ	13	UJ
Methylcyclohexane		108-87-2	NE	NE	NE	NE	3.8	U	**190**	**J**	530	U	**310**	**J**	3.3	U	**4.2**	**J**	**170**	**J**	**5.8**	**J**	**94**	**J**
Methylene chloride		75-09-2	50	12000	NE	NE	4.7	U	1,500	U	670	U	1000	UJ	4.2	U	6.2	U	460	U	9.9	UJ	6.3	UJ
Styrene		100-42-5	NE	NE	NE	300000	0.94	U	**260**	**J**	**180**		**170**	**J**	**2**		**3.7**	**J**	**360**		**2**	**J**	**0.63**	**J**
1,1,2,2-Tetrachloroethane		79-34-5	NE	NE	5400	NE	0.47	U	150	U	67	U	100	U	0.42	U	0.62	U	46	U	0.99	UJ	0.63	UJ
Tetrachloroethene (PCE)		127-18-4	1300	2000	57000	NE	0.47	U	150	U	67	U	100	U	0.42	U	0.62	U	46	U	0.99	UJ	0.63	UJ
Toluene		108-88-3	700	36000	4500	NE	0.94	U	**630**		**1,400**		**360**		**15**		**76**		**1,500**		**140**	**J**	**100**	

Table 5D. Creek Deeper Sediment Boring Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

						Task Description	Creek Deeper Sediment Boring Sample Analytical Results																	
						Sample Name	SED-BGL-1/12-14		SED-LSC-1/11-15		SED-LSC-2/14-16		SED-LSC-3/13-16		SED-LSC-4/14-16		SED-LSC-5/14-16		SED-LSC-6/12-19.5		SED-LSC-7/12-18		SED-LSC-8/6.8-15	
						Start Depth	562.2		563.1		560.1		561.1		560.0		560.0		561.2		561.8		566.6	
						End Depth	560.2		559.1		558.1		558.1		550.0		550.0		553.7		553.8		558.4	
						Depth Unit	Elevation ft		Elevation ft		Elevation ft		Elevation ft		Elevation ft		Elevation ft		Elevation ft		Elevation ft		Elevation ft	
						Sample Depth Interval (ft) below Top of Sediment	1.0 to 3.0		4.5 to 8.5		8.0 to 10.0		5.2 to 8.2		4.7 to 6.7		5.2 to 7.2		3.5 to 11.0		4.0 to 12.0		0 to 8.2	
						Sample Date	11/10/2021		11/9/2021		11/9/2021		11/9/2021		11/10/2021		11/10/2021		11/3/2021		11/3/2021		11/3/2021	
Analyte	**Units**	**CAS No. or Identifier**	**375-6.8(a) Unrestricted SCO**	**375-6.8(b) Protection of Ecological Resources SCO**	**Freshwater Sediment Guidance Values Class B**	**NY CP-51 RESTRICTED USE ECO SSCO**																		
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		76-13-1	NE	NE	NE	NE	3.8	U	1,200	U	530	U	810	U	3.3	U	5	U	370	U	7.9	UJ	5	UJ
1,2,3-Trichlorobenzene		87-61-6	NE	NE	2800	20000	1.9	U	590	U	270	U	400	U	1.7	U	2.5	U	180	U	4	UJ	2.5	UJ
1,2,4-Trichlorobenzene		120-82-1	NE	NE	55000	20000	1.9	U	590	U	270	U	400	U	1.7	U	2.5	U	180	U	4	UJ	2.5	UJ
1,1,1-Trichloroethane (TCA)		71-55-6	680	NE	3500	NE	0.47	U	150	U	67	U	100	U	0.42	U	0.62	U	46	U	0.99	UJ	0.63	UJ
1,1,2-Trichloroethane		79-00-5	NE	NE	3500	NE	0.94	U	300	U	130	U	200	U	0.84	U	1.2	U	92	U	2	UJ	1.3	UJ
Trichloroethene (TCE)		79-01-6	470	2000	8600	NE	0.47	U	150	U	67	U	100	U	0.42	U	**0.44**	**J**	**79**		**0.62**	**J**	0.63	UJ
Trichlorofluoromethane (Freon 11)		75-69-4	NE	NE	NE	NE	3.8	UJ	1,200	U	530	U	810	UJ	3.3	U	5	U	370	U	7.9	UJ	5	UJ
Vinyl chloride		75-01-4	20	NE	NE	NE	0.94	UJ	300	U	130	U	200	U	**0.81**	**J**	**2.9**		**620**		**1.4**	**J**	**0.88**	**J**
o-Xylene		95-47-6	260	NE	7200	NE	0.94	U	**25000**		**14000**		**4,400**	**J**	**32**		**2,500**		**4,100**		**720**	**J**	**1,600**	
m/p-Xylene		179601-23-1	260	260	NE	NE	1.9	U	**29,000**		**36,000**		**1,700**		**63**		**4,400**		**8,400**		**1,100**	**J**	**1,100**	
Total BTEX (ND=0)		TBTEX_ND0	NE	NE	NE	NE	**0.22**		**175,630**		**139,400**		**65,460**		**273**		**22,176**		**31,460**		**3,010**		**9,250**	
SVOCs (SW 8270D)	ug/kg																							
Acenaphthene		83-32-9	20000	20000	NE	NE	160	U	**37,000**		**20,000**		**110,000**		**320**		**1,700**		**25,000**		**3,300**		**5,400**	**J**
Acenaphthylene		208-96-8	100000	NE	NE	NE	160	U	**3,000**		**2,800**		**3,700**		**150**	**J**	**110**	**J**	**5,200**		**360**		**650**	**J**
Acetophenone		98-86-2	NE	NE	NE	NE	200	U	3,200	U	2,100	U	3,000	U	220	U	220	U	2,200	U	200	U	240	UJ
Anthracene		120-12-7	100000	NE	NE	NE	120	U	**17,000**		**12,000**		**45,000**		**200**		**740**		**17,000**		**1,700**		**3,000**	**J**
Atrazine		1912-24-9	NE	NE	NE	NE	160	U	2,600	U	1,700	U	2,400	U	170	U	180	U	1,700	U	160	U	190	UJ
Benzaldehyde		100-52-7	NE	NE	NE	NE	270	U	4,200	U	2,700	U	4,000	U	280	U	290	U	2,800	U	270	U	310	UJ
Benzo(a)anthracene		56-55-3	1000	NE	NE	NE	**28**	**J**	**8,900**		**5,500**		**20,000**		**130**		**380**		**9,400**		**950**		**2,100**	**J**
Benzo(b)fluoranthene		205-99-2	1000	NE	NE	NE	120	U	**5,500**		**3,000**		**12,000**		**80**	**J**	**230**		**5,800**		**590**		**1,400**	**J**
Benzo(k)fluoranthene		207-08-9	800	NE	NE	NE	120	U	**1,200**	**J**	**900**	**J**	**3,000**		130	U	**77**	**J**	**1,800**		**150**		**460**	**J**
Benzo(g,h,i)perylene		191-24-2	100000	NE	NE	NE	160	U	**3,600**		**2,500**		**8,700**		**49**	**J**	**150**	**J**	**3,600**		**380**		**890**	**J**
Benzo(a)pyrene		50-32-8	1000	2600	NE	NE	160	U	**8,000**		**4,600**		**16,000**		**100**	**J**	**340**		**8,400**		**820**		**1,800**	**J**
Biphenyl (1,1-Biphenyl)		92-52-4	NE	NE	NE	60000	460	U	**11,000**		**6,400**		**31,000**		**140**	**J**	**470**	**J**	**8,000**		**880**		**1,300**	**J**
Bis(2-chloroethoxy)methane		111-91-1	NE	NE	NE	NE	220	U	3,500	U	2,200	U	3,200	U	230	U	240	U	2,300	U	220	U	260	UJ
Bis(2-chloroethyl)ether		111-44-4	NE	NE	NE	NE	180	U	2,900	U	1,900	U	2,700	U	190	U	200	U	1,900	U	180	U	210	UJ
2,2-oxybis(1-Chloropropane)		108-60-1	NE	NE	NE	NE	240	UJ	3,900	UJ	2,500	UJ	3,600	UJ	260	U	260	UJ	2,600	UJ	240	UJ	280	UJ
Bis(2-ethylhexyl)phthalate		117-81-7	NE	NE	14	239000	200	U	3,200	UJ	2,100	U	3,000	U	220	U	220	U	2,200	U	200	U	240	UJ
4-Bromophenyl phenyl ether		101-55-3	NE	NE	NE	NE	200	U	3,200	U	2,100	U	3,000	U	220	U	220	U	2,200	U	200	U	240	UJ
Butyl benzyl phthalate		85-68-7	NE	NE	NE	NE	200	U	3,200	U	2,100	U	3,000	U	220	U	220	U	2,200	U	200	U	240	UJ
Caprolactam		105-60-2	NE	NE	NE	NE	200	U	3,200	U	2,100	UJ	3,000	UJ	220	U	220	U	2,200	UJ	200	U	240	UJ
Carbazole		86-74-8	NE	NE	NE	NE	200	U	3,200	U	2,100	U	**1000**	**J**	220	U	220	U	2,200	U	200	U	**96**	**J**
4-Chloro-3-methylphenol		59-50-7	NE	NE	NE	NE	200	U	3,200	U	2,100	U	3,000	U	220	U	220	U	2,200	U	200	U	240	UJ
4-Chloroaniline		106-47-8	NE	NE	NE	NE	200	U	3,200	U	2,100	U	3,000	U	220	UJ	220	U	2,200	UJ	200	UJ	240	UJ
2-Chloronaphthalene		91-58-7	NE	NE	NE	NE	200	U	3,200	U	2,100	U	3,000	U	220	U	220	U	2,200	U	200	U	240	UJ
2-Chlorophenol		95-57-8	NE	NE	NE	800	200	U	3,200	U	2,100	U	3,000	U	220	U	220	U	2,200	U	200	U	240	UJ
4-Chlorophenyl phenyl ether		7005-72-3	NE	NE	NE	NE	200	U	3,200	U	2,100	U	3,000	U	220	U	220	U	2,200	U	200	U	240	UJ
Chrysene		218-01-9	1000	NE	NE	NE	**22**	**J**	**7,200**		**4,200**		**16,000**		**96**	**J**	**310**		**7,300**		**780**		**1,800**	**J**
Dibenz(a,h)anthracene		53-70-3	330	NE	NE	NE	120	U	**720**	**J**	**480**	**J**	**2,000**		130	U	**32**	**J**	**740**	**J**	**90**	**J**	**220**	**J**
Dibenzofuran		132-64-9	7000	NE	NE	NE	200	U	**2,600**	**J**	**1,400**	**J**	**7,300**		**39**	**J**	**140**	**J**	**2,200**		**320**		**490**	**J**
3,3-Dichlorobenzidine		91-94-1	NE	NE	NE	NE	200	U	3,200	U	2,100	U	3,000	U	220	U	220	U	2,200	U	200	U	240	UJ
2,4-Dichlorophenol		120-83-2	NE	NE	NE	20000	180	U	2,900	U	1,900	U	2,700	U	190	U	200	U	1,900	U	180	U	210	UJ
Diethyl phthalate		84-66-2	NE	NE	NE	100000	200	U	3,200	U	2,100	U	3,000	U	220	U	220	U	2,200	U	200	U	240	UJ
Dimethyl phthalate		131-11-3	NE	NE	NE	200000	200	U	3,200	U	2,100	U	3,000	U	220	U	220	U	2,200	U	200	U	240	UJ

Table 5D. Creek Deeper Sediment Boring Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

						Task Description	Creek Deeper Sediment Boring Sample Analytical Results																	
						Sample Name	SED-BGL-1/12-14		SED-LSC-1/11-15		SED-LSC-2/14-16		SED-LSC-3/13-16		SED-LSC-4/14-16		SED-LSC-5/14-16		SED-LSC-6/12-19.5		SED-LSC-7/12-18		SED-LSC-8/6.8-15	
						Start Depth	562.2		563.1		560.1		561.1		560.0		560.0		561.2		561.8		566.6	
						End Depth	560.2		559.1		558.1		558.1		550.0		550.0		553.7		553.8		558.4	
						Depth Unit	Elevation ft		Elevation ft		Elevation ft		Elevation ft		Elevation ft		Elevation ft		Elevation ft		Elevation ft		Elevation ft	
						Sample Depth Interval (ft) below Top of Sediment	1.0 to 3.0		4.5 to 8.5		8.0 to 10.0		5.2 to 8.2		4.7 to 6.7		5.2 to 7.2		3.5 to 11.0		4.0 to 12.0		0 to 8.2	
						Sample Date	11/10/2021		11/9/2021		11/9/2021		11/9/2021		11/10/2021		11/10/2021		11/3/2021		11/3/2021		11/3/2021	
Analyte	Units	CAS No. or Identifier	375-6.8(a) Unrestricted SCO	375-6.8(b) Protection of Ecological Resources SCO	Freshwater Sediment Guidance Values Class B	NY CP-51 RESTRICTED USE ECO SSCO																		
2,4-Dimethylphenol		105-67-9	NE	NE	NE	NE	200	U	3,200	U	2,100	U	3,000	U	220	U	220	U	2,200	U	200	U	240	UJ
Di-n-butyl phthalate		84-74-2	NE	NE	NE	14	200	U	3,200	U	2,100	U	3,000	U	220	U	220	U	2,200	U	200	U	240	UJ
4,6-Dinitro-2-methylphenol		534-52-1	NE	NE	NE	NE	520	U	8,400	UJ	5,400	R	7,800	R	560	U	570	U	5,600	U	530	U	620	UJ
2,4-Dinitrophenol		51-28-5	NE	NE	NE	20000	970	U	15,000	UJ	10,000	U	14,000	U	1000	U	1000	U	10,000	U	970	U	1,100	UJ
2,4-Dinitrotoluene		121-14-2	NE	NE	NE	NE	200	U	3,200	U	2,100	U	3,000	U	220	U	220	U	2,200	U	200	U	240	UJ
2,6-Dinitrotoluene		606-20-2	NE	NE	NE	NE	200	U	3,200	U	2,100	U	3,000	U	220	U	220	U	2,200	U	200	U	240	UJ
Di-n-octyl phthalate		117-84-0	NE	NE	NE	NE	200	UJ	3,200	UJ	2,100	U	3,000	U	220	U	220	UJ	2,200	U	200	U	240	UJ
Fluoranthene		206-44-0	100000	NE	NE	NE	**35**	**J**	**16,000**		**9,000**		**42,000**		**210**		**680**		**17,000**		**1,600**		**3,500**	**J**
Fluorene		86-73-7	30000	30000	NE	NE	200	U	**15,000**		**9,800**		**35,000**		**190**	**J**	**640**		**13,000**		**1,300**		**2,400**	**J**
Hexachlorobenzene		118-74-1	330	NE	NE	NE	120	U	1,900	U	1,200	U	1,800	U	130	U	130	U	1,300	U	120	U	140	UJ
1,3-Hexachlorobutadiene (C-46)		87-68-3	NE	NE	12000	NE	200	U	3,200	U	2,100	U	3,000	U	220	U	220	U	2,200	U	200	U	240	UJ
Hexachlorocyclopentadiene		77-47-4	NE	NE	8100	10000	580	U	9,200	U	5,900	UJ	8,600	UJ	620	U	630	U	6,200	U	580	U	680	UJ
Hexachloroethane		67-72-1	NE	NE	NE	NE	160	U	2,600	U	1,700	U	2,400	U	170	U	180	U	1,700	U	160	U	190	UJ
Indeno(1,2,3-cd)pyrene		193-39-5	500	NE	NE	NE	160	U	**2,900**		**1,800**		**7,600**		**40**	**J**	**120**	**J**	**3,200**		**330**		**830**	**J**
Isophorone		78-59-1	NE	NE	NE	NE	180	U	2,900	U	1,900	U	2,700	U	190	U	200	U	1,900	U	180	U	210	UJ
2-Methylnaphthalene		91-57-6	NE	NE	NE	NE	240	U	**95,000**		**50,000**		**280,000**		**1000**		**3,400**		**42,000**		**3,600**		**6,900**	**J**
2-Methylphenol (o-Cresol)		95-48-7	330	NE	NE	NE	200	U	3,200	U	2,100	U	3,000	U	220	U	220	U	2,200	U	200	U	240	UJ
3,4-Methylphenol (m,p-Cresol)		08394/10644	NE	NE	NE	NE	290	U	4,600	U	3,000	U	4,300	U	310	U	320	U	3,100	U	290	U	340	UJ
Naphthalene		91-20-3	12000	NE	NE	NE	200	U	**110,000**		**80,000**		**450,000**		**2,200**		**6,400**		**69,000**		**4,900**		**8,900**	**J**
2-Nitroaniline		88-74-4	NE	NE	NE	NE	200	U	3,200	U	2,100	U	3,000	U	220	U	220	U	2,200	U	200	U	240	UJ
3-Nitroaniline		99-09-2	NE	NE	NE	NE	200	U	3,200	U	2,100	U	3,000	U	220	U	220	U	2,200	U	200	U	240	UJ
4-Nitroaniline		100-01-6	NE	NE	NE	NE	200	U	3,200	U	2,100	U	3,000	U	220	U	220	U	2,200	U	200	U	240	UJ
Nitrobenzene		98-95-3	NE	NE	NE	40000	180	U	2,900	U	1,900	U	2,700	U	190	U	200	U	1,900	U	180	U	210	UJ
2-Nitrophenol		88-75-5	NE	NE	NE	7000	440	U	7,000	UJ	4,500	U	6,500	U	460	U	470	U	4,700	U	440	U	510	UJ
4-Nitrophenol		100-02-7	NE	NE	NE	7000	280	U	4,500	U	2,900	UJ	4,200	UJ	300	U	310	U	3,000	UJ	280	U	330	UJ
N-Nitrosodiphenylamine (NDFA)		86-30-6	NE	NE	NE	20000	160	U	2,600	U	1,700	U	2,400	U	170	U	180	U	1,700	U	160	U	190	UJ
N-Nitrosodi-n-propylamine (NDPA)		621-64-7	NE	NE	NE	NE	200	U	3,200	U	2,100	U	3,000	U	220	U	220	U	2,200	U	200	U	240	UJ
Pentachlorophenol		87-86-5	800	800	19000	NE	160	U	2,600	U	1,700	U	2,400	U	170	U	180	U	1,700	U	160	U	190	UJ
Phenanthrene		85-01-8	100000	NE	NE	NE	120	U	**59,000**		**42,000**		**150,000**		**750**		**2,600**		**60,000**		**5,000**		**7,900**	**J**
Phenol		108-95-2	330	30000	NE	NE	200	U	3,200	U	2,100	U	3,000	U	220	U	220	U	2,200	U	200	U	240	UJ
Pyrene		129-00-0	100000	NE	NE	NE	**58**	**J**	**32,000**		**24,000**		**83,000**		**440**		**1,400**		**34,000**		**3,000**		**5,500**	**J**
1,2,4,5-Tetrachlorobenzene		95-94-3	NE	NE	14000	NE	200	U	3,200	U	2,100	U	3,000	U	220	U	220	U	2,200	U	200	U	240	UJ
2,3,4,6-Tetrachlorophenol		58-90-2	NE	NE	NE	NE	200	U	3,200	U	2,100	U	3,000	U	220	U	220	U	2,200	U	200	U	240	UJ
2,4,5-Trichlorophenol		95-95-4	NE	NE	NE	4000	200	U	3,200	U	2,100	U	3,000	U	220	U	220	U	2,200	U	200	U	240	UJ
2,4,6-Trichlorophenol		88-06-2	NE	NE	NE	NE	120	U	1,900	U	1,200	U	1,800	U	130	U	130	U	1,300	U	120	U	140	UJ
Total PAH (16) (ND=0)		TPAH16_ND0	NE	NE	35000	NE	**143**		**327020**		**222580**		**1004000**		**4,955**		**15,909**		**280440**		**25,250**		**46750**	
Total PAH (17) (ND=0)		TPAH17_ND0	NE	NE	35000	NE	**143**		**422020**		**272580**		**1284000**		**5,955**		**19,309**		**322440**		**28,850**		**53650**	
CYANIDES (SW 9012B)	mg/kg																							
Total Cyanide		57-12-5	27	NE	NE	NE	1.2	U	**0.73**	**J**	1.2	UJ	**4.6**	**J**	1.2	UJ	1.2	U	1.2	UJ	1.1	UJ	1.3	UJ
PESTICIDES (SW 8081B)	ug/kg																							
Aldrin		309-00-2	5	140	NE	NE	1.94	R	3	R	1.96	U	2.9	R	1.98	U	2.1	R	2.07	UJ	1.86	R	10.8	UJ
alpha-BHC (Hexachlorocyclohexane)		319-84-6	20	40	NE	NE	0.807	R	1.25	R	0.819	U	1.21	R	0.825	U	0.876	R	0.863	UJ	0.773	R	4.51	UJ
beta-BHC (beta-Hexachlorocyclohexane)		319-85-7	36	600	NE	NE	1.94	R	3	R	1.96	U	2.9	R	1.98	U	2.1	R	2.07	UJ	1.86	R	10.8	UJ
gamma-BHC (gamma-Hexachlorocyclohexane) (Lindane)		58-89-9	100	6000	78	NE	0.807	R	1.25	R	0.819	U	1.21	R	0.825	U	0.876	R	0.863	UJ	0.773	R	4.51	UJ

Table 5D. Creek Deeper Sediment Boring Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

						Task Description	Creek Deeper Sediment Boring Sample Analytical Results																	
						Sample Name	SED-BGL-1/12-14		SED-LSC-1/11-15		SED-LSC-2/14-16		SED-LSC-3/13-16		SED-LSC-4/14-16		SED-LSC-5/14-16		SED-LSC-6/12-19.5		SED-LSC-7/12-18		SED-LSC-8/6.8-15	
						Start Depth	562.2		563.1		560.1		561.1		560.0		560.0		561.2		561.8		566.6	
						End Depth	560.2		559.1		558.1		558.1		550.0		550.0		553.7		553.8		558.4	
						Depth Unit	Elevation ft		Elevation ft		Elevation ft		Elevation ft		Elevation ft		Elevation ft		Elevation ft		Elevation ft		Elevation ft	
						Sample Depth Interval (ft) below Top of Sediment	1.0 to 3.0		4.5 to 8.5		8.0 to 10.0		5.2 to 8.2		4.7 to 6.7		5.2 to 7.2		3.5 to 11.0		4.0 to 12.0		0 to 8.2	
						Sample Date	11/10/2021		11/9/2021		11/9/2021		11/9/2021		11/10/2021		11/10/2021		11/3/2021		11/3/2021		11/3/2021	
Analyte	**Units**	**CAS No. or Identifier**	**375-6.8(a) Unrestricted SCO**	**375-6.8(b) Protection of Ecological Resources SCO**	**Freshwater Sediment Guidance Values Class B**	**NY CP-51 RESTRICTED USE ECO SSCO**																		
delta-BHC (delta-Hexachlorocyclohexane)		319-86-8	40	40	NE	NE	1.94	R	3	R	1.96	U	2.9	R	1.98	U	2.1	R	2.07	UJ	1.86	R	10.8	UJ
Chlordane (Technical)		12789-03-6	NE	NE	NE	NE	16.1	R	25	R	16.4	U	24.2	R	16.5	U	17.5	R	17.2	UJ	15.5	R	90.1	UJ
alpha-chlordane		5103-71-9	94	1300	NE	NE	2.42	R	3.74	R	2.46	U	3.63	R	2.48	U	2.63	R	2.59	UJ	2.32	R	13.5	UJ
gamma-Chlordane		5103-74-2	NE	NE	NE	NE	2.42	R	3.74	R	2.46	U	3.63	R	2.48	U	2.63	R	2.59	UJ	2.32	R	13.5	UJ
4,4'-DDT (p,p'-DDT)		50-29-3	3.3	3.3	48000	NE	3.63	R	5.62	R	3.68	U	5.44	R	3.71	U	3.94	R	**6.51**	**J**	3.48	R	20.3	UJ
4,4'-DDE (p,p'-DDE)		72-55-9	3.3	3.3	NE	NE	1.94	R	3	R	1.96	U	2.9	R	1.98	U	2.1	R	2.07	UJ	1.86	R	10.8	UJ
4,4'-DDD (p,p-DDD)		72-54-8	3.3	3.3	NE	NE	1.94	R	3	R	1.96	U	**5.96**	**J**	1.98	U	2.1	R	**8.81**	**J**	1.86	R	10.8	UJ
Dieldrin		60-57-1	5	6	780	NE	1.21	R	1.87	R	1.23	U	1.81	R	1.24	U	1.31	R	1.29	UJ	1.16	R	6.76	UJ
alpha-Endosulfan (I)		959-98-8	2400	NE	NE	NE	1.94	R	3	R	1.96	U	2.9	R	1.98	U	2.1	R	2.07	UJ	1.86	R	10.8	UJ
beta-Endosulfan (II)		33213-65-9	2400	NE	NE	NE	1.94	R	3	R	1.96	U	2.9	R	1.98	U	2.1	R	2.07	UJ	1.86	R	10.8	UJ
Endosulfan sulfate		1031-07-8	2400	NE	NE	NE	0.807	R	1.25	R	0.819	U	1.21	R	0.825	U	0.876	R	0.863	UJ	0.773	R	4.51	UJ
Endrin		72-20-8	14	14	220	NE	0.807	R	1.25	R	0.819	U	1.21	R	0.825	U	0.876	R	0.863	UJ	0.773	R	4.51	UJ
Endrin aldehyde		7421-93-4	NE	NE	NE	NE	2.42	R	3.74	R	2.46	U	3.63	R	2.48	UJ	2.63	R	2.59	UJ	2.32	R	13.5	UJ
Endrin ketone		53494-70-5	NE	NE	NE	NE	1.94	R	3	R	1.96	U	2.9	R	1.98	U	2.1	R	2.07	UJ	1.86	R	10.8	UJ
Heptachlor		76-44-8	42	140	10000	NE	0.969	R	1.5	R	0.982	U	1.45	R	0.99	U	1.05	R	1.04	UJ	0.928	R	5.41	UJ
Heptachlor epoxide		1024-57-3	NE	NE	2100	NE	3.63	R	5.62	R	3.68	U	5.44	R	3.71	U	3.94	R	3.88	UJ	3.48	R	20.3	UJ
Methoxychlor		72-43-5	NE	NE	NE	1200	3.63	R	5.62	R	3.68	U	5.44	R	3.71	U	3.94	R	3.88	UJ	3.48	R	20.3	UJ
Toxaphene		8001-35-2	NE	NE	250	NE	36.3	R	56.2	R	36.8	U	54.4	R	37.1	U	39.4	R	38.8	UJ	34.8	R	203	UJ
HERBICIDES (SW 8151A)	ug/kg																							
2,4-D (2,4-Dichlorophenoxyacetic acid)		94-75-7	NE	NE	NE	NE	200	U	323	U	209	U	302	U	216	U	217	U	215	U	203	UJ	234	UJ
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)		93-76-5	NE	NE	NE	NE	200	U	323	U	209	U	302	U	216	U	217	U	215	U	203	UJ	234	UJ
2,4,5-TP (Silvex)		93-72-1	3800	NE	NE	NE	200	U	323	U	209	U	302	U	216	U	217	U	215	U	203	UJ	234	UJ
PCBs (SW 8082A)	ug/kg																							
Aroclor 1016		12674-11-2	NE	NE	NE	NE	38.6	U	61.8	UJ	42.3	UJ	59.2	UJ	43.4	U	44.2	U	42.8	UJ	39	UJ	46.2	UJ
Aroclor 1221		11104-28-2	NE	NE	NE	NE	38.6	U	61.8	UJ	42.3	UJ	59.2	UJ	43.4	U	44.2	U	42.8	UJ	39	UJ	46.2	UJ
Aroclor 1232		11141-16-5	NE	NE	NE	NE	38.6	U	61.8	UJ	42.3	UJ	59.2	UJ	43.4	U	44.2	U	42.8	UJ	39	UJ	46.2	UJ
Aroclor 1242		53469-21-9	NE	NE	NE	NE	38.6	U	61.8	UJ	42.3	UJ	59.2	UJ	43.4	U	44.2	U	42.8	UJ	39	UJ	**362**	**J**
Aroclor 1248		12672-29-6	NE	NE	NE	NE	38.6	U	61.8	UJ	42.3	UJ	59.2	UJ	43.4	U	44.2	U	42.8	UJ	39	UJ	46.2	UJ
Aroclor 1254		11097-69-1	NE	NE	NE	NE	38.6	U	61.8	UJ	42.3	UJ	**780**	**J**	43.4	U	44.2	U	**77.5**	**J**	**16.6**	**J**	46.2	UJ
Aroclor 1260		11096-82-5	NE	NE	NE	NE	38.6	U	61.8	UJ	42.3	UJ	**206**	**J**	43.4	U	44.2	U	42.8	UJ	39	UJ	46.2	UJ
Aroclor 1262		37324-23-5	NE	NE	NE	NE	38.6	U	61.8	UJ	42.3	UJ	59.2	UJ	43.4	U	44.2	U	42.8	UJ	39	UJ	46.2	UJ
Aroclor 1268		11100-14-4	NE	NE	NE	NE	38.6	U	61.8	UJ	42.3	UJ	59.2	UJ	43.4	U	44.2	U	42.8	UJ	39	UJ	46.2	UJ
Total PCBs (Lab calculated)		1336-36-3	100	1000	1000	NE	38.6	U	61.8	UJ	42.3	UJ	**986**	**J**	43.4	U	44.2	U	**77.5**	**J**	**16.6**	**J**	**362**	**J**
METALS (SW 6010D)	mg/kg																							
Aluminum		7429-90-5	NE	NE	NE	10000	**8,840**		**10,800**		**6,870**		**6,850**		**8,800**		**8,190**		**15,800**	**J**	**2,410**		**4,620**	
Antimony		7440-36-0	NE	NE	NE	12	4.75	U	7.37	U	4.88	U	7.08	U	5.15	U	5.14	U	5.08	U	4.63	U	5.6	U
Arsenic		7440-38-2	13	13	33	NE	**3.15**	**J**	**9.49**		**6.85**		**11.4**		**1.77**	**J**	**2.14**	**J**	**3.29**	**J**	**3.47**		**4.69**	
Barium		7440-39-3	350	433	NE	NE	**95**		**159**		**74.4**		**134**		**102**		**88.3**		**145**		**32.9**		**57.5**	
Beryllium		7440-41-7	7.2	10	NE	NE	**0.475**		0.737	U	0.488	U	0.708	U	**0.36**	**J**	0.514	U	**2.18**		**0.111**	**J**	**0.324**	**J**
Cadmium		7440-43-9	2.5	4	5	NE	**0.104**	**J**	**1.81**	**J**	**0.556**	**J**	**3.66**	**J**	**0.69**	**J**	**0.144**	**J**	**0.386**	**J**	**0.528**	**J**	**0.996**	**J**
Calcium		7440-70-2	NE	NE	NE	10000	**97,100**		**37,800**		**80,600**		**25,800**		**81,500**		**66,800**		**141,000**		**121,000**		**75,800**	
Chromium		7440-47-3	30	41	110	NE	**14.5**		**20.3**		**11.6**		**35**		**14.5**		**14.1**		**8.76**		**5.81**		**13.9**	
Cobalt		7440-48-4	NE	NE	NE	20	**9.83**		**9.39**		**7.47**		**13.5**		**8.17**		**8.1**		**2**	**J**	**2.52**		**4.74**	
Copper		7440-50-8	50	50	150	NE	**17.7**		**133**		**14.4**		**235**		**21.4**		**65**		**73.9**		**29.8**		**90.6**	

Table 5D. Creek Deeper Sediment Boring Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

						Task Description	Creek Deeper Sediment Boring Sample Analytical Results																	
						Sample Name	SED-BGL-1/12-14		SED-LSC-1/11-15		SED-LSC-2/14-16		SED-LSC-3/13-16		SED-LSC-4/14-16		SED-LSC-5/14-16		SED-LSC-6/12-19.5		SED-LSC-7/12-18		SED-LSC-8/6.8-15	
						Start Depth	562.2		563.1		560.1		561.1		560.0		560.0		561.2		561.8		566.6	
						End Depth	560.2		559.1		558.1		558.1		550.0		550.0		553.7		553.8		558.4	
						Depth Unit	Elevation ft		Elevation ft		Elevation ft		Elevation ft		Elevation ft		Elevation ft		Elevation ft		Elevation ft		Elevation ft	
						Sample Depth Interval (ft) below Top of Sediment	1.0 to 3.0		4.5 to 8.5		8.0 to 10.0		5.2 to 8.2		4.7 to 6.7		5.2 to 7.2		3.5 to 11.0		4.0 to 12.0		0 to 8.2	
						Sample Date	11/10/2021		11/9/2021		11/9/2021		11/9/2021		11/10/2021		11/10/2021		11/3/2021		11/3/2021		11/3/2021	
Analyte	**Units**	**CAS No. or Identifier**	**375-6.8(a) Unrestricted SCO**	**375-6.8(b) Protection of Ecological Resources SCO**	**Freshwater Sediment Guidance Values Class B**	**NY CP-51 RESTRICTED USE ECO SSCO**																		
Iron		7439-89-6	NE	NE	NE	NE	**19,500**		**26,400**		**13,600**		**37,800**		**16,900**		**17,600**		**6,760**		**7,540**	**J**	**17,100**	**J**
Lead		7439-92-1	63	63	130	NE	**17**		**291**		**13.8**		**392**		**15.5**		**22**	**J**	**58.4**		**34**		**98.8**	
Magnesium		7439-95-4	NE	NE	NE	NE	**21,000**		**8,830**		**19,800**		**5,840**		**18,300**		**21,000**		**21,800**	**J**	**39,000**		**21,700**	
Manganese		7439-96-5	1600	1600	NE	NE	**467**		**247**		**373**		**404**		**451**		**444**		**2,100**		**383**		**428**	
Mercury (SW 7471B)		7439-97-6	0.18	0.1800	1	NE	0.089	U	**1.11**		0.081	U	**0.669**		0.085	U	0.092	U	**0.243**		0.079	U	**0.207**	
Nickel		7440-02-0	30	30	49	NE	**18.3**		**22.2**		**15.8**		**31.6**		**17.7**		**17.4**		**4.58**		**5.22**		**9.9**	
Potassium		7440-09-7	NE	NE	NE	NE	**1,750**		**991**		**1,200**		**746**		**1,570**		**1,710**		**1,120**		**384**		**644**	
Selenium		7782-49-2	3.9	3.9	NE	NE	**0.37**	**J**	2.95	U	1.95	U	2.83	U	2.06	U	**0.854**	**J**	**2.21**		**0.287**	**J**	**0.571**	**J**
Silver		7440-22-4	2	2	2.2	NE	0.95	U	**0.752**	**J**	0.976	U	**1.09**	**J**	1.03	U	1.03	U	1.02	U	0.927	U	1.12	U
Sodium		7440-23-5	NE	NE	NE	NE	**663**	**J**	**339**		**238**		**332**	**J**	**254**		**300**	**J**	**543**		**368**		**671**	
Thallium		7440-28-0	NE	NE	NE	5	1.9	U	2.95	UJ	1.95	U	2.83	UJ	2.06	U	2.06	U	2.03	U	1.85	U	2.24	U
Vanadium		7440-62-2	NE	NE	NE	39	**20.6**		**23.8**		**15.6**		**24.5**		**19.7**		**18.8**		**3.9**		**8.08**		**16**	
Zinc		7440-66-6	109	109	460	NE	**62.6**		**547**		**57.2**		**598**		**57.8**		**78.2**		**91.2**		**86.1**		**194**	
GENERAL CHEMISTRY (SM 2540G)	%																							
Percent Solids		SOLIDS	NE	NE	NE	NE	**81.6**		**51.4**		**77.8**		**54.9**		**75.8**		**74.9**		**76.6**		**81.2**		**69.7**	
TOTAL ORGANIC CARBON (SW 9060A)	%																							
Total Organic Carbon		TOC	NE	NE	NE	NE	0.01	U	**8**		**3.57**		**3.86**		**3.83**		**3.7**		**3.53**		**3.77**		**4.17**	

Table 5D. Creek Deeper Sediment Boring Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

Notes:

Sample ID contains sample depth below the measuring point on barge; sample elevation interval provided for sample depth
mg/kg = milligrams/kilogram or parts per million (ppm)
% = Percent
ug/kg = micrograms per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes
PAH = Polycyclic Aromatic Hydrocarbon
PCB = Polychlorinated Biphenyl
SVOC = Semi-Volatile Organic Compound
VOC = Volatile Organic Compound

CAS No. = Chemical Abstracts Service Number
ND = Not Detected
NE = Not Established

Bolding indicates a detected result concentration
Shading and bolding indicates that the detected concentration is above the Guidance it was compared to
6 NYCRR = New York State Register and Official Compilation of Codes, Rules and Regulations of the State of New York

Comparison of detected results are performed against one or more of the following NYCRR, Chapter IV, Part 375-6 Soil Cleanup Objectives (SCO)s: Unrestricted Use, Restricted-Residential, Protection of Ecological Resources

(1) Source: NYSDEC CP-51 Soil Cleanup Guidance as presented in Tables 1 through 3 dated October 2010 applying to the Inactive Hazardous Waste Disposal Site Remedial Program

Validation Qualifiers:
J = The result is an estimated value.
JN = The analyte is presumptively present at an approximated quantity.
U = The result was not detected above the reporting limit.
UJ = The results was not detected at or above the reporting limit shown and the reporting limit is estimated.
R = The results were rejected by laboratory (see **1,4-Dioxane, Pesticides Group**)

1,4-Dioxane - Rejected Data
Due to the extremely low calibration response factor for 1,4-dioxane under Method 8260C, this compound is typically rejected during validation as it does not meet the minimal criteria set for accurate quantitation. Non-detect results for 1,4-dioxane are rejected as the presence or absence of the compound cannot be verified. Positive results are estimated due to the high variability inherent in the quantitation when using an extremely low response factor.

Pesticides (SW 8081B) - Rejected Data
The pesticide nondetect results in sample SED-BGL-1/12-14, SED-LSC-1/11-15, SED-LSC-3/13-16, SED-LSC-5/14-16, and SED-LSC-7/12-18 were rejected (R) due to surrogate recovery less than 10%. These results should not be used for decision-making purposes.

Table 5E. Vault Debris Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

		Sample Name	BSA-VAULT-DEBRIS	
		Sample Date	11/18/2021	
Analyte	**Units**	**CAS No.**		
VOCs (SW 8260C)	ug/kg			
Acetone		67-64-1	810	U
Benzene		71-43-2	**1,800**	
Bromochloromethane		74-97-5	160	U
Bromodichloromethane		75-27-4	41	U
Bromoform		75-25-2	320	U
Bromomethane		74-83-9	160	U
Carbon disulfide		75-15-0	**430**	**J**
Carbon tetrachloride		56-23-5	81	U
Chlorobenzene		108-90-7	41	U
Chloroethane		75-00-3	**160**	
Chloroform (Trichloromethane)		67-66-3	120	U
Chloromethane		74-87-3	320	U
Cyclohexane		110-82-7	**63**	**J**
1,2-Dibromo-3-chloropropane		96-12-8	240	U
Dibromochloromethane		124-48-1	81	U
1,2-Dibromoethane (EDB)		106-93-4	81	U
1,2-Dichlorobenzene (o-DCB)		95-50-1	160	U
1,3-Dichlorobenzene (m-DCB)		541-73-1	160	U
1,4-Dichlorobenzene (p-DCB)		106-46-7	160	U
Dichlorodifluoromethane (Freon 12)		75-71-8	810	U
1,1-Dichloroethane		75-34-3	**280**	
1,2-Dichloroethane		107-06-2	81	U
1,1-Dichloroethene		75-35-4	**23**	**J**
cis-1,2-Dichloroethene		156-59-2	**2,200**	
trans-1,2-Dichloroethene		156-60-5	**14**	**J**
1,2-Dichloropropane		78-87-5	81	U
cis-1,3-Dichloropropene		10061-01-5	41	U
trans-1,3-Dichloropropene		10061-02-6	81	U
1,4-Dioxane		123-91-1		R
Ethylbenzene		100-41-4	**62,000**	
2-Hexanone		591-78-6	810	U
Isopropylbenzene		98-82-8	**5,900**	
Methyl acetate		79-20-9	**470**	
Methyl ethyl ketone (2-Butanone)		78-93-3	810	U
Methyl tert-butyl ether (MTBE)		1634-04-4	160	U
4-Methyl-2-pentanone (MIBK)		108-10-1	810	U
Methylcyclohexane		108-87-2	**240**	**J**
Methylene chloride		75-09-2	410	U
Styrene		100-42-5	**260**	
1,1,2,2-Tetrachloroethane		79-34-5	41	U
Tetrachloroethene (PCE)		127-18-4	41	U
Toluene		108-88-3	**2,900**	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)		76-13-1	320	U
1,2,3-Trichlorobenzene		87-61-6	160	U
1,2,4-Trichlorobenzene		120-82-1	160	U

Table 5E. Vault Debris Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

		Sample Name	BSA-VAULT-DEBRIS	
		Sample Date	11/18/2021	
Analyte	**Units**	**CAS No.**		
1,1,1-Trichloroethane (TCA)		71-55-6	**440**	
1,1,2-Trichloroethane		79-00-5	81	U
Trichloroethene (TCE)		79-01-6	**61**	
Trichlorofluoromethane (Freon 11)		75-69-4	320	U
Vinyl chloride		75-01-4	**450**	
o-Xylene		95-47-6	**16,000**	
m/p-Xylene		179601-23-1	**17,000**	
SVOCs (SW 8270D)	ug/kg			
Acenaphthene		83-32-9	**58**	**J**
Acenaphthylene		208-96-8	**53**	**J**
Acetophenone		98-86-2	240	U
Anthracene		120-12-7	**140**	
Atrazine		1912-24-9	190	U
Benzaldehyde		100-52-7	320	U
Benzo(a)anthracene		56-55-3	**400**	
Benzo(b)fluoranthene		205-99-2	**480**	
Benzo(k)fluoranthene		207-08-9	**130**	**J**
Benzo(g,h,i)perylene		191-24-2	**220**	
Benzo(a)pyrene		50-32-8	**330**	
Biphenyl (1,1-Biphenyl)		92-52-4	550	U
Bis(2-chloroethoxy)methane		111-91-1	260	U
Bis(2-chloroethyl)ether		111-44-4	220	U
2,2-oxybis(1-Chloropropane)		108-60-1	290	U
Bis(2-ethylhexyl)phthalate		117-81-7	240	U
4-Bromophenyl phenyl ether		101-55-3	240	U
Butyl benzyl phthalate		85-68-7	**160**	**J**
Caprolactam		105-60-2	240	U
Carbazole		86-74-8	**46**	**J**
4-Chloro-3-methylphenol		59-50-7	240	U
4-Chloroaniline		106-47-8	240	U
2-Chloronaphthalene		91-58-7	240	U
2-Chlorophenol		95-57-8	240	U
4-Chlorophenyl phenyl ether		7005-72-3	240	U
Chrysene		218-01-9	**410**	
Dibenz(a,h)anthracene		53-70-3	**61**	**J**
Dibenzofuran		132-64-9	**33**	**J**
3,3-Dichlorobenzidine		91-94-1	240	U
2,4-Dichlorophenol		120-83-2	220	U
Diethyl phthalate		84-66-2	240	U
Dimethyl phthalate		131-11-3	240	U
2,4-Dimethylphenol		105-67-9	240	U
Di-n-butyl phthalate		84-74-2	240	U
4,6-Dinitro-2-methylphenol		534-52-1	620	U
2,4-Dinitrophenol		51-28-5	1,200	U
2,4-Dinitrotoluene		121-14-2	240	U
2,6-Dinitrotoluene		606-20-2	240	U

Table 5E. Vault Debris Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

		Sample Name	BSA-VAULT-DEBRIS	
		Sample Date	11/18/2021	
Analyte	**Units**	**CAS No.**		
Di-n-octyl phthalate		117-84-0	240	U
Fluoranthene		206-44-0	**780**	
Fluorene		86-73-7	**75**	**J**
Hexachlorobenzene		118-74-1	140	U
1,3-Hexachlorobutadiene (C-46)		87-68-3	240	U
Hexachlorocyclopentadiene		77-47-4	680	U
Hexachloroethane		67-72-1	190	U
Indeno(1,2,3-cd)pyrene		193-39-5	**250**	
Isophorone		78-59-1	220	U
2-Methylnaphthalene		91-57-6	290	U
2-Methylnaphthalene		91-57-6	290	U
2-Methylphenol (o-Cresol)		95-48-7	240	U
3,4-Methylphenol (m,p-Cresol)		108394/106445	340	U
Naphthalene		91-20-3	**30**	**J**
2-Nitroaniline		88-74-4	240	U
3-Nitroaniline		99-09-2	240	U
4-Nitroaniline		100-01-6	240	U
Nitrobenzene		98-95-3	220	U
2-Nitrophenol		88-75-5	520	U
4-Nitrophenol		100-02-7	340	U
N-Nitrosodiphenylamine (NDFA)		86-30-6	190	U
N-Nitrosodi-n-propylamine (NDPA)		621-64-7	240	U
Pentachlorophenol		87-86-5	190	U
Phenanthrene		85-01-8	**450**	
Phenol		108-95-2	240	U
Pyrene		129-00-0	**660**	
1,2,4,5-Tetrachlorobenzene		95-94-3	240	U
2,3,4,6-Tetrachlorophenol		58-90-2	240	U
2,4,5-Trichlorophenol		95-95-4	240	U
2,4,6-Trichlorophenol		88-06-2	140	U
PCB Aroclors (8082A)	ug/kg			
Aroclor 1016		12674-11-2	45.7	U
Aroclor 1221		11104-28-2	45.7	U
Aroclor 1232		11141-16-5	45.7	U
Aroclor 1242		53469-21-9	45.7	U
Aroclor 1248		12672-29-6	45.7	U
Aroclor 1254		11097-69-1	**102**	**J**
Aroclor 1260		11096-82-5	**33.3**	**J**
Aroclor 1262		37324-23-5	45.7	U
Aroclor 1268		11100-14-4	45.7	U
Total PCBs (Lab calculated)		1336-36-3	**135**	**J**
PESTICIDES (SW 8081B)	ug/kg			
Aldrin		309-00-2	21.8	U
alpha-BHC (Hexachlorocyclohexane)		319-84-6	9.09	U
beta-BHC (beta-Hexachlorocyclohexane)		319-85-7	21.8	U
gamma-BHC (gamma-Hexachlorocyclohexane) (Lindane)		58-89-9	9.09	U

Table 5E. Vault Debris Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

		Sample Name	BSA-VAULT-DEBRIS	
		Sample Date	11/18/2021	
Analyte	**Units**	**CAS No.**		
delta-BHC (delta-Hexachlorocyclohexane)		319-86-8	21.8	U
Chlordane (Technical)		12789-03-6	182	U
alpha-chlordane		5103-71-9	27.3	U
gamma-Chlordane		5103-74-2	27.3	U
4,4'-DDT (p,p'-DDT)		50-29-3	40.9	U
4,4'-DDE (p,p'-DDE)		72-55-9	21.8	U
4,4'-DDD (p,p-DDD)		72-54-8	**13.8**	**J**
Dieldrin		60-57-1	13.6	U
alpha-Endosulfan (I)		959-98-8	21.8	U
beta-Endosulfan (II)		33213-65-9	21.8	U
Endosulfan sulfate		1031-07-8	9.09	U
Endrin		72-20-8	9.09	U
Endrin aldehyde		7421-93-4	27.3	U
Endrin ketone		53494-70-5	21.8	U
Heptachlor		76-44-8	10.9	U
Heptachlor epoxide		1024-57-3	40.9	U
Methoxychlor		72-43-5	40.9	U
Toxaphene		8001-35-2	409	U
HERBICIDES (SW 8151A)	ug/kg			
2,4-D (2,4-Dichlorophenoxyacetic acid)		94-75-7	237	U
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)		93-76-5	237	U
2,4,5-TP (Silvex)		93-72-1	237	U
METALS (SW 6010D)	mg/kg			
Aluminum		7429-90-5	**3,370**	
Antimony		7440-36-0	**3.82**	**J**
Arsenic		7440-38-2	**5.35**	
Barium		7440-39-3	**64.8**	
Beryllium		7440-41-7	**0.305**	**J**
Cadmium		7440-43-9	**1.72**	
Calcium		7440-70-2	**98,000**	
Chromium		7440-47-3	**81.6**	
Cobalt		7440-48-4	**4.71**	
Copper		7440-50-8	**131**	
Iron		7439-89-6	**29,200**	
Lead		7439-92-1	**833**	
Magnesium		7439-95-4	**21,300**	
Manganese		7439-96-5	**550**	
Mercury		7439-97-6	0.092	U
Nickel		7440-02-0	**19.9**	
Potassium		7440-09-7	**342**	
Selenium		7782-49-2	**0.588**	**J**
Silver		7440-22-4	1.13	U
Sodium		7440-23-5	**271**	
Thallium		7440-28-0	**0.768**	**J**
Vanadium		7440-62-2	**12**	
Zinc		7440-66-6	**600**	

Table 5E. Vault Debris Sample Analytical Results
Site Characterization Report
Former Buffalo Gaslight Iroquois Gas Corp. Site
Buffalo, New York

		Sample Name	BSA-VAULT-DEBRIS	
		Sample Date	11/18/2021	
Analyte	**Units**	**CAS No.**		
CYANIDES (SW 9012B)	mg/kg			
Total Cyanide		57-12-5	**4.9**	
VPH/EPH				
C5-C8 Aliphatics (MAVPH)	mg/kg	ALIPH5-8	8.46	U
C5-C8 Aliphatics, Adjusted (MAVPH)	mg/kg	ALIPH5-8ADJ	8.46	U
C9-C12 Aliphatics (MAVPH)	mg/kg	ALIPH9-12	**11.9**	
C9-C12 Aliphatics, Adjusted (MAVPH)	mg/kg	ALIPH9-12ADJ	**9.86**	
C9-C10 Aromatics (MAVPH)	mg/kg	AROM9-10	8.46	U
Total EPH Fractions (NJ EPH R3)	mg/kg	TEPH	**6,440**	
GENERAL CHEMISTRY				
Ammonia (SM 4500-NH3 BH)	mg/kg	7664-41-7	**18**	
Percent Solids (SM 2540G)	%	SOLIDS	**69.5**	
Sulfide (SW 9030B)	mg/kg	18496-25-8	**2,400**	
TOTAL ORGANIC CARBON (SW 9060A)				
Total Organic Carbon	%	TOC	**9.73**	

Notes:

mg/kg = milligrams/kilogram or parts per million (ppm)
% = Percent
ug/kg = micrograms per kilogram

PAH = Polycyclic Aromatic Hydrocarbon
PCB = Polychlorinated Biphenyl
SVOC = Semi-Volatile Organic Compound
VOC = Volatile Organic Compound

CAS No. = Chemical Abstracts Service Number

Bolding indicates a detected result concentration

Validation Qualifiers:
J = The result is an estimated value.
R = The result is rejected.
U = The result was not detected above the reporting limit.

1,4-Dioxane - Rejected Data:
Due to the extremely low calibration response factor for 1,4-dioxane under Method 8260C, this compound is typically rejected during validation as it does not meet the minimal criteria set for accurate quantitation. Non-detect results for 1,4-dioxane are rejected as the presence or absence of the compound cannot be verified. Positive results are estimated due to the high variability inherent in the quantitation when using an extremely low response factor.