Tables

EnSol, Inc. *Environmental Solutions*

professional engineering – business consulting

TABLE 1
RI SOIL ANALYTICAL DATA SUMMARY
Former Donovan Building
125 Main Street Site
Buffalo, New York

PARAMETER[1]	Unrestricted (ppm) [2]	Restricted - Commercial (ppm) [2]	Sample Locations																														
			SVI SAMPLING WITHIN THE BUILDING (PARCEL D1)			PARCEL D1 IRM AREA				PARCEL D2	PARCEL D3			PARCEL D1 IRM AREA				PARCEL D3		PARCEL D2	PARCEL D1 NON-IRM AREA		PARCEL D1 IRM AREA			PARCEL D1 NON-IRM AREA	PARCEL D1 IRM AREA		NOTE 4	PARCEL D1 IRM AREA			
			SB-1 (1-2)	SB-2 (1-2)	SB-3 (0-1)	SB-7 (15-17)	BH-20 (R) (13-17)	BH-20 (R) (17-20)	BH-20 R (E) (17-19)	TP-1 (15-17)	TP-2 (4-6)	TP-3 (4-8)	TP-3 (15-17)	TP-4 (3-7)	TP-5 (15-17)	TP-6 (3-5)	TP-8 (10-12)	BCP MW-1 (4-6)	BCP MW-1 (12-14)	BCP MW-2 (5-7)	BCP MW-3 (2-4)	BCP MW-3 (14-16)	BCP MW-4 (8-10)	BCP MW-5 (4-5)	BCP MW-6 (6-8)	BCP MW-7 (8-10)	MW-2 (R) (2-4)	MW-2 (R) (14-16)	SS-1[4]	Waste Char 1 (5-11) [5]	Waste Char 2 (1-5) [5]	Waste Char 3 (1-3) [5]	Waste Char 4 (3-7) [5]
Volatile Organic Compounds (VOCs) - mg/Kg [3]																																	
1,2-Dichlorobenzene	**1.1**	**500**	ND	ND	ND	--	ND	ND	ND	ND	ND	--	ND	ND	0.0017 J	ND	ND	--	ND	ND	--	ND	ND	ND	ND	ND	--	ND	ND	--	--	--	--
1,2,4-Trimethybenzene	**3.6**	**190**	0.0035 J	0.0057 J	0.0022 J	--	ND	ND	0.13 J	ND	ND	--	ND	ND	ND	ND	0.016	--	ND	ND	--	ND	ND	ND	ND	ND	--	ND	ND	--	--	--	--
1,3,5-Trichlorobenzene	**8.4**	**190**	0.0021 J	ND	ND	--	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	0.01 J	--	ND	ND	--	ND	ND	ND	ND	ND	--	ND	ND	--	--	--	--
1,4-Diethylbenzene	**--**	**--**	ND	ND	ND	--	ND	ND	ND	ND	ND	--	ND	ND	0.0017 J	ND	0.016	--	ND	ND	--	ND	ND	ND	ND	ND	--	ND	ND	--	--	--	--
1,2,4,5-Tetramethylbenzene	**--**	**--**	ND	0.00058 J	ND	--	ND	ND	0.28 J	ND	ND	--	ND	ND	0.0017 J	ND	0.012	--	ND	ND	--	ND	ND	ND	ND	ND	--	ND	ND	--	--	--	--
2-Butanone	**--**	**--**	ND	ND	ND	--	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	0.011 J	--	ND	ND	--	ND	ND	ND	ND	ND	--	ND	ND	--	--	--	--
4-Ethyltoluene	**--**	**--**	0.0017 J	ND	0.00087 J	--	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	0.0029 J	--	ND	ND	--	ND	ND	ND	ND	ND	--	ND	ND	--	--	--	--
Acetone	**0.05**	**500**	ND	ND	ND	--	**0.091**	**0.06**	ND	ND	ND	--	ND	ND	ND	ND	**0.058**	--	ND	ND	--	ND	0.025 J	ND	ND	ND	--	ND	ND	--	--	--	--
Carbon disulfide	**--**	**--**	0.0074 J	0.01 J	0.0057 J	--	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	0.002 J	--	ND	ND	--	ND	0.0031 J	0.0038 J	0.0054 J	ND	--	ND	ND	--	--	--	--
Methylene Chloride	**0.05**	**500**	0.0047 J	0.0044 J	0.0044 J	--	ND	ND	**0.37 J**	ND	ND	--	ND	ND	ND	ND	ND	--	ND	ND	--	ND	ND	0.0034 J	ND	ND	--	ND	ND	--	--	--	--
p-Isopropylbenzene	**--**	**--**	ND	ND	ND	--	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	0.0017 J	--	ND	ND	--	ND	ND	ND	ND	ND	--	ND	ND	--	--	--	--
sec-Butybenzene	**11**	**500**	0.0028	ND	ND	--	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	--	ND	ND	--	ND	ND	ND	ND	ND	--	ND	ND	--	--	--	--
Toluene	**0.7**	**500**	ND	ND	ND	--	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	ND	--	ND	ND	--	ND	0.0028 J	ND	0.0022 J	ND	--	ND	ND	--	--	--	--
Xylene, Total	**0.26**	**500**	ND	ND	ND	--	ND	ND	ND	ND	ND	--	ND	ND	ND	ND	0.0018 J	--	ND	ND	--	ND	ND	ND	ND	ND	--	ND	ND	--	--	--	--
Semi-Volatile Organic Compounds (SVOCs) - mg/Kg [3]																																	
Acenaphthene	**20**	**500**	ND	ND	ND	ND	0.11 J	ND	--	0.71	ND	2.5	--	ND	ND	ND	ND	ND	--	0.2 J	ND	--	ND	ND	ND	ND	ND	--	0.11 J	--	--	--	--
Acenaphthylene	**100**	**500**	ND	ND	ND	ND	0.12 J	ND	--	ND	ND	1.3 J	--	ND	ND	ND	ND	ND	--	ND	ND	--	ND	ND	ND	ND	ND	--	ND	--	--	--	--
Anthracene	**100**	**500**	ND	ND	0.082 J	ND	0.29 J	ND	--	2.3	1.7	6.5	--	0.076 J	ND	ND	ND	ND	--	0.35 J	0.3 J	--	ND	ND	ND	ND	ND	--	0.31	--	--	--	--
Benzo (a) anthracene	**1**	**5.6**	ND	0.082 J	0.18	ND	0.41	ND	--	**5.1**	**3.7**	**11**	--	0.25	ND	0.047 J	ND	ND	--	0.56	**1.3**	--	ND	ND	ND	ND	ND	--	**1.4**	--	--	--	--
Benzo (b) fluoranthene	**1**	**5.6**	ND	0.088 J	0.1 J	ND	0.43 J	ND	--	**5.7**	**3.3**	**6.1**	--	0.17 J	ND	ND	ND	ND	--	0.6	**1.8**	--	ND	ND	ND	ND	ND	--	**2**	--	--	--	--
Benzo (k) fluoranthene	**0.8**	**56**	ND	0.033 J	0.15	ND	0.17	ND	--	**2.4**	**2.8**	**8.3**	--	0.23	ND	ND	ND	ND	--	0.25 J	0.6	--	ND	ND	ND	ND	ND	--	**1**	--	--	--	--
Benzo (a) pyrene	**1**	**1**	ND	0.054 J	0.13 J	ND	0.34 J	ND	--	**4.3**	**3.3**	**8.6**	--	0.24 J	ND	ND	ND	ND	--	0.47 J	**1.1**	--	ND	ND	ND	ND	ND	--	**1.5**	--	--	--	--
Benzo (g,h,i) perylene	**100**	**500**	ND	ND	0.081 J	ND	0.19 J	ND	--	2.7	2.3	4.2	--	0.14 J	ND	ND	ND	ND	--	0.22 J	1	--	ND	ND	ND	ND	ND	--	1.2	--	--	--	--
Bis(2 - ethylhexyl) phthalate	**--**	**--**	0.43	0.24 J	0.042 J	ND	0.08 J	ND	--	ND	ND	ND	--	ND	ND	ND	ND	ND	--	ND	ND	--	ND	ND	ND	ND	ND	--	0.14 J	--	--	--	--
Carbazole	**--**	**--**	ND	ND	ND	ND	0.16 J	ND	--	1	0.96 J	2.1	--	ND	ND	ND	ND	ND	--	0.2 J	0.14 J	--	ND	ND	ND	ND	ND	--	0.32	--	--	--	--
Chrysene	**1**	**56**	ND	0.1 J	0.19	ND	0.44	ND	--	**4.8**	**3.7**	**10**	--	0.25	ND	0.052 J	ND	ND	--	0.57	**1.6**	--	ND	ND	ND	ND	ND	--	**1.8**	--	--	--	--
Dibenzo (a,h) anthracene	**0.33**	**0.56**	ND	ND	ND	ND	ND	ND	--	**0.67**	**0.83 J**	**1.8**	--	ND	ND	ND	ND	ND	--	ND	0.22 J	--	ND	ND	ND	ND	ND	--	0.28	--	--	--	--
Dibenzofuran	**7**	**350**	ND	ND	ND	ND	0.12 J	ND	--	0.67 J	0.53 J	1.9 J	--	ND	ND	ND	ND	ND	--	0.19 J	ND	--	ND	ND	ND	ND	ND	--	0.057 J	--	--	--	--
Fluoranthene	**100**	**500**	0.035 J	0.19	0.43	0.57 J	1.3	ND	--	11	8.4	24	--	0.45	ND	0.1 J	0.072 J	0.65 J	--	1.4	3.4	--	ND	ND	ND	ND	ND	--	3.9	--	--	--	--
Fluorene	**30**	**500**	ND	ND	ND	ND	0.18 J	ND	--	0.43 J	ND	2.6	--	ND	ND	ND	ND	ND	--	0.19 J	ND	--	ND	ND	ND	ND	ND	--	0.12 J	--	--	--	--
Indeno (1,2,3 - cd) pyrene	**0.5**	**5.6**	ND	ND	0.073 J	ND	0.21 J	ND	--	**3.2**	**1.9**	**4**	--	0.13 J	ND	ND	ND	ND	--	0.24 J	**1.1**	--	ND	ND	ND	ND	ND	--	**1.4**	--	--	--	--
2 - Methylnaphthalene	**--**	**--**	ND	ND	ND	ND	0.13 J	ND	--	ND	ND	1.3 J	--	ND	ND	ND	ND	ND	--	ND	ND	--	ND	ND	ND	ND	ND	--	ND	--	--	--	--
3-methylphenol/4-Methylphenol	**--**	**--**	ND	ND	ND	ND	ND	0.48	--	ND	ND	ND	--	ND	ND	ND	0.26 J	ND	--	ND	ND	--	ND	ND	ND	ND	ND	--	ND	--	--	--	--
Naphthalene	**12**	**500**	ND	ND	ND	ND	0.27	ND	--	0.32 J	0.64 J	1.6 J	--	ND	ND	ND	0.13 J	ND	--	ND	ND	--	ND	ND	ND	ND	ND	--	ND	--	--	--	--
Phenanthrene	**100**	**500**	0.03 J	0.15	0.33	0.74 J	1.4	ND	--	8.5	6.7	23	--	0.24	0.5 J	0.06 J	0.068 J	0.78 J	--	1.6	2.6	--	ND	ND	ND	ND	ND	--	2	--	--	--	--
Pyrene	**100**	**500**	ND	0.14	0.37	0.48 J	1.1	ND	--	9.2	6.6	21	--	0.39	ND	0.1 J	0.062 J	0.49 J	--	1.1	3.1	--	ND	ND	ND	ND	ND	--	2.9	--	--	--	--
Polychlorinated Biphenyls (PCBs), Pesticides, and Herbicides - mg/Kg [3]																																	
Aroclor 1254	**0.1**	**1**	ND	0.00817 J	ND	ND	ND	ND	--	ND	ND	ND	--	ND	ND	ND	ND	ND	--	ND	ND	--	ND	ND	ND	ND	ND	--	ND	--	--	--	--
Aroclor 1260	**0.1**	**1**	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	ND	ND	ND	ND	ND	--	ND	0.0117 J	--	ND	ND	ND	ND	ND	--	0.0407	--	--	--	--
Aldrin	**0.005**	**0.68**	ND	ND	ND	ND	0.00268	ND	--	ND	ND	ND	--	ND	ND	ND	ND	ND	--	ND	ND	--	ND	ND	ND	ND	ND	--	ND	--	--	--	--
Alpha-BHC	**0.1**	**1**	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	ND	ND	0.00175	ND	ND	--	ND	ND	--	ND	ND	ND	ND	0.000894 P	--	ND	--	--	--	--
Beta-BHC	**0.04**	**3**	0.0208 P	0.00638 J	ND	ND	ND	ND	--	ND	ND	ND	--	ND	ND	ND	ND	ND	--	ND	ND	--	ND	ND	ND	ND	ND	--	ND	--	--	--	--
Chlordane	**0.094**	**24**	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	ND	ND	ND	ND	ND	--	ND	ND	--	ND	ND	ND	ND	ND	--	**0.109 J**	--	--	--	--
Endosulfan II	**2.4**	**200**	ND	ND	ND	ND	ND	ND	--	ND	ND	0.0106 JP	--	ND	ND	ND	ND	ND	--	ND	ND	--	ND	ND	ND	ND	ND	--	ND	--	--	--	--
Heptachlor	**0.042**	**15**	ND	ND	ND	ND	ND	ND	--	ND	ND	0.00915 J	--	ND	ND	ND	ND	ND	--	ND	ND	--	ND	ND	ND	ND	ND	--	ND	--	--	--	--
Lindane	**0.1**	**9.2**	ND	ND	ND	ND	ND	ND	--	ND	ND	ND	--	ND	ND	0.000779	ND	ND	--	ND	ND	--	ND	ND	ND	ND	ND	--	ND	--	--	--	--
Metyhoxychlor	**--**	**--**	ND	ND	ND	ND	ND	ND	--	ND	0.0245 J	ND	--	ND	ND	ND	ND	ND	--	ND	ND	--	ND	ND	ND	ND	ND	--	ND	--	--	--	--
Trans-Chlordane	**--**	**--**	0.0135 J	ND	0.00735 JP	ND	ND	ND	--	ND	ND	ND	--	ND	ND	ND	ND	ND	--	ND	ND	--	ND	ND	ND	ND	0.00158 JP	--	0.00882 J	--	--	--	--

Notes:
1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC Part 375 Soil Cleanup Objectives (December 2006).
3. Sample results were reported by the laboratory in micrograms per kilogram (ug/Kg) and converted to milligram per kilogram (mg/Kg) for comparison to SCOs.
4. Surface soil sample SS-1 was a composite sample from three grab samples (identified as SS-1a, SS-1b, and SS-1) collected across parcels D1 and D3.The discrete TCL VOC grab sample was collected from SS-1b.
5. Values per NYSDEC Hazardous Waste Regulatory Levels for Toxicity Characteristics.
6. Parcels D1 and D2 are included in the BCA. Parcel D3 was excluded from the BCA through a BCA modification application, which was approved by the NYSDEC on July 9, 2013.

Definitions:
-- = No SCO has been established for subject parameter./ Not analyzed for that parameter.
ND = Parameter not detected above laboratory detection limit.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
P = Detected concentrations between the two GC columns is greater than 25%; lower value is reported and flagged (for CLP methodology only).

BOLD	Exceeds Part 375 Unrestricted SCOs.
BOLD	Exceeds Part 375 Commercial SCOs.

TABLE 1
RI SOIL ANALYTICAL DATA SUMMARY
Former Donovan Building
125 Main Street Site
Buffalo, New York

PARAMETER[1]	Unrestricted (ppm) [2]	Restricted - Commercial (ppm) [2]	Sample Locations																														
			SVI SAMPLING WITHIN THE BUILDING (PARCEL D1)			PARCEL D1 IRM AREA				PARCEL D2	PARCEL D3			PARCEL D1 IRM AREA				PARCEL D3		PARCEL D2	PARCEL D1 NON-IRM AREA		PARCEL D1 IRM AREA			PARCEL D1 NON-IRM AREA	PARCEL D1 IRM AREA		NOTE 4	PARCEL D1 IRM AREA			
			SB-1 (1-2)	SB-2 (1-2)	SB-3 (0-1)	SB-7 (15-17)	BH-20 (R) (13-17)	BH-20 (R) (17-20)	BH-20 R (E) (17-19)	TP-1 (15-17)	TP-2 (4-6)	TP-3 (4-8)	TP-3 (15-17)	TP-4 (3-7)	TP-5 (15-17)	TP-6 (3-5)	TP-8 (10-12)	BCP MW-1 (4-6)	BCP MW-1 (12-14)	BCP MW-2 (5-7)	BCP MW-3 (2-4)	BCP MW-3 (14-16)	BCP MW-4 (8-10)	BCP MW-5 (4-5)	BCP MW-6 (6-8)	BCP MW-7 (8-10)	MW-2 (R) (2-4)	MW-2 (R) (14-16)	SS-1[4]	Waste Char 1 (5-11) [5]	Waste Char 2 (1-5) [5]	Waste Char 3 (1-3) [5]	Waste Char 4 (3-7) [5]
Total Metals - mg/Kg																																	
Aluminum	--	--	33000	25000	32000	8000	8600	5600	--	12000	15000	3700	--	14000	10000	5400	4000	13000	NA	4300	16000	NA	7000	30000	32000	12000	34000	NA	10000	--	--	--	--
Antimony	--	--	0.56 J	1 J	0.56 J	1.3 J	4.1 J	13	--	2.7 J	2.5 J	4.4 J	--	0.89 J	0.95 J	ND	1.3 J	1.7 J	NA	0.98 J	0.87 J	NA	1.2 J		4.2 J	2.8 J	ND	NA	1.5 J	--	--	--	--
Arsenic	**13**	**16**	1.4	2.5	2	3.4	5.9	6.3	--	6.9	10	12	--	3	5.6	1.3	1.7	6	NA	3.2	2.6	NA	3.8	1.7	5.5	9.8	1.3	NA	5.4	--	--	--	--
Barium	**350**	**400**	250	170	330	94	67	110	--	350	**360**	99	--	95	48	40	27	95	NA	29	160	NA	53	250	**400**	62	290	NA	65	--	--	--	--
Beryllium	**7.2**	**590**	4.9	3.4	4.1	0.81	0.34 J	0.32 J	--	0.82	1	0.5	--	2.1	1.1	0.55	0.2 J	0.59	NA	0.22 J	2.2	NA	0.5	4.3	4	0.57	4.6	NA	0.45	--	--	--	--
Cadmium	**2.5**	**9.3**	0.09	0.09 J	0.08 J	0.35 J	0.1 J	0.36 J	--	0.66 J	0.68 J	0.56 J	--	0.18 J	0.32 J	0.13 J	0.13 J	0.26 J	NA	0.17 J	0.16 J	NA	0.13 J	0.03 J	0.22 J	0.61 J	0.07 J	NA	0.48 J	--	--	--	--
Calcium	--	--	220000	210000	190000	39000	280000	33000	--	140000	72000	110000	--	86000	73000	89000	23000	110000	NA	54000	100000	NA	60000	190000	190000	13000	200000	NA	7600	--	--	--	--
Chromium	**30**	**1500**	14	11	11	9	11	7.3	--	14	20	8.8	--	8.1	9.2	4.1	5.2	15	NA	6.4	6.9	NA	8	7.5	**40**	17	5.2	NA	34	--	--	--	--
Cobalt	--	--	0.68	1.2	0.7 J	2.7	3.2 J	4.1	--	4	6.9	9.1	--	2	5.1	1.5 J	2.8	4.2	NA	2.7	1.3 J	NA	2.9	0.22 J	4	14	0.36 J	NA	5.2	--	--	--	--
Copper	**50**	**270**	5.2	8.2	15	44	24	**79**	--	17	37	**150**	--	28	30	9.1	9.8	34	NA	15	10	NA	14	2.3	14	40	1.1	NA	30	--	--	--	--
Iron	--	--	4000	79000	4200	8500	8100	11000	--	9300	21000	40000	--	7200	13000	5000	7000	13000	NA	7800	6500	NA	9200	5400	51000	28000	4500	NA	15000	--	--	--	--
Lead	**63**	**1000**	29	**96**	32	**170**	**97**	**510**	--	**690**	**380**	**210**	--	45	34	6.3	30	**80**	NA	41	41	NA	**89**	5.4	4.7	16	26	NA	120	--	--	--	--
Magnesium	--	--	37000	29000	23000	10000	11000	5600	--	12000	7000	8200	--	20000	10000	28000	13000	12000	NA	16000	13000	NA	10000	29000	12000	6400	12000	NA	3200	--	--	--	--
Manganese	**1600**	**10000**	**3100**	**2300**	**2900**	810	300	360	--	270	180	190	--	1500	780	570	120	300	NA	240	**1700**	NA	450	2200	**4500**	530	**2000**	NA	520	--	--	--	--
Mercury	**0.18**	**2.8**	<0.02	<0.02	**0.46**	**0.64**	**2.5**	**1.1**	--	0.05 J	0.09	**0.92**	--	**0.3**	**0.24**	ND	**0.7**	0.16	NA	0.66	0.06 J	NA	**0.69**		ND	0.03 J	ND	NA	0.07 J	--	--	--	--
Nickel	**30**	**310**	1.8	4	2.2	9.5	9.7	11	--	10	15	18	--	5.1	19	3.6	6.4	12	NA	7.4	3.3	NA	7.2	0.69 J	6.7	**49**	0.65 J	NA	13	--	--	--	--
Potassium	--	--	3600	3600	3500	1100	1800	1200	--	1800	2200	530	--	1600	1200	790	720	1400	NA	680	1400	NA	1200	2900	3100	1900	2400	NA	860	--	--	--	--
Selenium	**3.9**	**1500**	**4.6**	3.1	**4.8**	1.3 J	0.87 J	0.74 J	--	0.37 J	0.42 J	ND	--	1.4 J	0.43 J	ND	ND	ND	NA	ND	2	NA	ND	4.4	**4**	ND	3.2	NA	0.95 J	--	--	--	--
Silver	**2**	**1500**	0.48	0.32 J	0.43	0.24 J	0.26 J	0.77 J	--	0.3 J	0.25 J	0.27 J	--	0.19 J	0.16 J	ND	ND	ND	NA	ND	ND	NA	ND	0.08 J	0.52 J	ND	ND	NA	0.16 J	--	--	--	--
Sodium	--	--	1600	1400	1300	1400	1100	2200	--	1500	2300	1100	--	1100	720	480	730	2400	NA	390	870	NA	910	1400	1500	510	1200	NA	200	--	--	--	--
Thallium	--	--	ND	ND	ND	0.74 J	ND	ND	--	0.6 J	0.62 J	ND	--	ND	ND	ND	ND	0.74 J	NA	0.58 J	ND	NA	ND		1.3 J	2	ND	NA	ND	--	--	--	--
Vanadium	--	--	8.7	10	9.1	15	15	11	--	24	28	14	--	9.1	11	6.2	8.4	18	NA	9.7	7.6	NA	13	5.7	23	21	6.1	NA	20	--	--	--	--
Zinc	**109**	**10000**	11	16	14	**240**	78	**210**	--	**470**	**420**	**180**	--	55	66	40	48	94	NA	66	47	NA	57	4.8	4.8	110	5	NA	110	--	--	--	--
TCLP VOCs - mg/L [5]																																	
Total VOCs	**--**		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.00	0.00	0.00	0.00
TCLP SVOCs - mg/L [5]																																	
Total SVOCs	**--**		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.00	0.00	0.00	0.00
TCLP Metals - mg/L [5]																																	
Barium	**100**		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.46 J	0.27 J	0.2 J	0.32 J
Lead	**5**		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.03 J	ND	ND	ND
Silver	**5**		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.02 J	ND	ND	ND
Waste Characteristics [6]																																	
Ignitability	**Ignitable**		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NI	NI	NI	NI
pH (SU)	**2 - 12.5**		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	8.6 J	10.4	11.1	9.4
Sulfide, Reactive (mg/Kg)	**--**		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	ND	ND	43	ND

Notes:
1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC Part 375 Soil Cleanup Objectives (December 2006).
3. Sample results were reported by the laboratory in micrograms per kilogram (ug/Kg) and converted to milligram per kilogram (mg/Kg) for comparison to SCOs.
4. Surface soil sample SS-1 was a composite sample from three grab samples (identified as SS-1a, SS-1b, and SS-1) collected across parcels D1 and D3.The discrete TCL VOC grab sample was collected from SS-1b.
5. Values per NYSDEC Hazardous Waste Regulatory Levels for Toxicity Characteristics.
6. Parcels D1 and D2 are included in the BCA. Parcel D3 was excluded from the BCA through a BCA modification application, which was approved by the NYSDEC on July 9, 2013.

Definitions:
-- = No SCO has been established for subject parameter./ Not analyzed for that parameter.
ND = Parameter not detected above laboratory detection limit.
NI = Non Ignitable.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
P = Detected concentrations between the two GC columns is greater than 25%; lower value is reported and flagged (for CLP methodology only).

BOLD	Exceeds Part 375 Unrestricted SCOs.
BOLD	Exceeds Part 375 Commercial SCOs.

TABLE 2

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

125 Main Street Site
Buffalo, New York

PARAMETER[1]	GWQS/ GV[2]	BCP-MW-01[4]	BCP-MW-02[4]	BCP-MW-02[5]	BCP-MW-02[6]	BCP-MW-03[4]	BCP-MW-03[5]	BCP-MW-03[6]	BCP-MW-04[4]	BCP-MW-05[5]	BCP-MW-06[6]	BCP-MW-06R[5,R]	BCP-MW-06R[7,R]	BCP-MW-07[5]	MW-1[4]	MW-1R[5,R]	MW-1R[7,R]	MW-2R[5]
Volatile Organic Compounds (VOCs) - ug/L																		
Acetone	**50**	ND	5.2	ND	-	ND	ND	-	3 J	5	3.6 J	ND	-	12	ND	ND	-	ND
Benzene	**1**	ND	ND	ND	-	ND	ND	-	ND	ND	ND	ND	-	0.79	ND	ND	-	ND
Carbon disulfide	**--**	ND	ND	ND	-	ND	ND	-	ND	1.3 J	1.3 J	ND	-	1.7 J	ND	ND	-	ND
1,2-Dichloroethane	**0.6**	ND	**1.1**	ND	-	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	-	ND
2-Butanone	**--**	ND	ND	ND	-	ND	ND	-	ND	1.4 J	1.1 J	ND	-	2.1 J	ND	ND	-	ND
2-Hexanone	**50**	ND	ND	ND	-	ND	ND	-	ND	4.1 J	3.4 J	ND	-	1.1 J	ND	ND	-	ND
Toluene	**5**	ND	ND	ND	-	ND	ND	-	ND	ND	ND	ND	-	0.72 J	ND	ND	-	ND
1,2,4-Trimethylbenzene	**5**	1.1 J	ND	ND	-	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	-	ND
Semi-volatile Organic Compounds (SVOCs) - ug/L																		
2-Methylnaphthalene	**5**	ND	0.07 J	ND	-	ND	ND	-	ND	0.46	0.25	ND	-	0.18 J	ND	ND	-	0.07 J
Acetophenone	**--**	ND	ND	ND	-	ND	ND	-	ND	1.9 J	1.1 J	ND	-	ND	ND	ND	-	ND
Anthracene	**50**	ND	ND	ND	-	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	-	0.07 J
Benzo[a]anthracene	**0.002**	ND	ND	ND	-	ND	ND	-	ND	ND	ND	ND	-	ND	**0.34 J**	ND	-	ND
Benzo[a]pyrene	**ND**	ND	ND	ND	-	ND	ND	-	ND	ND	ND	ND	-	ND	**0.28 J**	ND	-	ND
Benzo[b]fluoranthene	**0.002**	ND	ND	ND	-	ND	ND	-	ND	ND	ND	ND	-	ND	**0.62**	ND	-	ND
Benzo[g,h,i]perylene	**--**	ND	ND	ND	-	ND	ND	-	ND	ND	ND	ND	-	ND	0.54	ND	-	ND
Benzo[k]fluoranthene	**0.002**	ND	ND	ND	-	ND	ND	-	ND	ND	ND	ND	-	ND	**0.59**	ND	-	ND
Benzoic Acid	**--**	ND	ND	ND	-	ND	ND	-	2.3 J	9.5 J	7 J	ND	-	7.5 J	ND	ND	-	3 J
Bis(2-ethylhexyl) phthalate	**5**	ND	ND	0.74	-	ND	1	-	ND	ND	ND	ND	-	ND	ND	ND	-	ND
Chrysene	**0.002**	ND	ND	ND	-	ND	ND	-	ND	ND	ND	ND	-	ND	**0.5**	ND	-	ND
Di-n-butyl phthalate	**5**	ND	ND	ND	-	ND	0.48	-	ND	ND	ND	ND	-	ND	ND	ND	-	ND
Di-n-octyl phthalate	**--**	ND	ND	ND	-	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	-	ND
Dibenz(a,h)anthracene	**--**	ND	ND	ND	-	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	-	ND
Dibenzofuran	**--**	ND	ND	ND	-	ND	ND	-	ND	ND	ND	ND	-	ND	ND	ND	-	ND
Diethyl phthalate	**--**	ND	ND	ND	-	ND	1.3	-	ND	ND	ND	ND	-	ND	ND	ND	-	ND
Fluoranthene	**50**	ND	ND	ND	-	ND	0.05	-	0.05	0.09 J	0.08	ND	-	0.06 J	0.86	ND	-	0.06 J
Fluorene	**50**	ND	0.13 J	ND	-	ND	ND	-	0.11 J	0.48	0.31	ND	-	0.25	ND	ND	-	0.13 J
Indeno(1,2,3-cd)pyrene	**0.002**	ND	ND	ND	-	ND	ND	-	ND	ND	ND	ND	-	ND	**0.46**	ND	-	ND
Isophorone	**--**	ND	ND	ND	-	ND	1.5	-	ND	ND	ND	ND	-	ND	ND	ND	-	ND
Phenanthrene	**50**	0.18 J	0.87	ND	-	0.3	ND	-	0.88	2.6	2.1	ND	-	1.5	0.33 J	ND	-	0.86
Pyrene	**50**	ND	ND	ND	-	ND	ND	-	ND	ND	ND	ND	-	ND	0.65	ND	-	ND
Polychlorinated Biphenyls (PCBs) - ug/L																		
Total PCBs	**0.09**	ND	ND	-	-	ND	-	-	ND	ND	ND	-	-	ND	ND	-	-	ND
Pesticides and Herbicides - ug/L																		
Heptachlor	**0.04**	ND	0.009 J	-	-	ND	-	-	0.01 J	ND	ND	-	-	ND	ND	-	-	ND
Heptachlor epoxide	**0.03**	ND	0.005 JP	-	-	ND	-	-	0.005 JP	0.007 JP	0.007 JP	-	-	ND	ND	-	-	ND
Endrin	**ND**	0.017 J	0.046	-	-	0.022 J	-	-	0.03 JP	0.158 P	0.16 P	-	-	0.045 P	ND	-	-	0.044 P
4,4'-DDE	**0.2**	ND	ND	-	-	ND	-	-	ND	0.023 JP	0.018 JP	-	-	0.007 JP	ND	-	-	ND
Total Metals - ug/L[3]																		
Aluminum	**--**	-	-	7900	462	-	39900	614	-	-	-	178000	2400	-	-	41200	978	-
Antimony	**330**	-	-	2.3 B	1.9 U	-	1.9 U	3.7 U	-	-	-	3.9 U	1.9 U	-	-	11.7	5.9 B	-
Arsenic	**25**	-	-	4.2	4	-	**29.2**	2.9 U	-	-	-	**79.2**	2.9 U	-	-	**67.4**	5.1	-
Barium	**1000**	-	-	188	121	-	352	55.5	-	-	-	873	82	-	-	672	22.4 B	-
Beryllium	**3**	-	-	0.30 B	0.25 U	-	1.9 B	0.25 U	-	-	-	**8.9**	0.25 U	-	-	**4.4**	0.25 U	-
Cadmium	**5**	-	-	0.50 B	0.50 U	-	1.7 B	0.50 U	-	-	-	**10.3**	0.50 U	-	-	3.2 B	0.50 U	-
Calcium	**--**	-	-	107000	83000	-	221000	125000	-	-	-	348000	297000	-	-	851000	92800	-
Chromium	**50**	-	-	12	1.4 U	-	**59.4 J**	1.7 B	-	-	-	**349**	5.2 B	-	-	**104**	4.0 B	-
Cobalt	**--**	-	-	4.3 B	0.40 U	-	33.0 B	0.40 U	-	-	-	145	0.80 B	-	-	43.9 B	0.90 B	-
Copper	**200**	-	-	30.6	7.0 U	-	159	7.0 U	-	-	-	**528**	10.0 B	-	-	**393**	14.5 B	-
Iron	**300**	-	-	**11700**	**675**	-	**94100**	**944**	-	-	-	**315000**	**3480**	-	-	**79000**	**1230**	-
Lead	**25**	-	-	**27**	1.7 U	-	**114**	1.8 B	-	-	-	**579**	7.1	-	-	**2110**	**32.8**	-
Magnesium	**35000**	-	-	15600	8330	-	**71200**	**14200**	-	-	-	**169000**	**63500**	-	-	**79500**	18300	-
Manganese	**300**	-	-	**663**	**501**	-	**1350**	21.8	-	-	-	**5360**	39.9	-	-	**1660**	44.6	-
Mercury	**0.7**	-	-	0.67 U	0.080 B	-	0.22	0.067 U	-	-	-	**2.2**	0.067 U	-	-	**36.5**	0.46	-
Nickel	**100**	-	-	11.1 B	1.5 B	-	63.7	0.90 B	-	-	-	**252**	3.5 B	-	-	**142**	5.6 B	-
Potassium	**--**	-	-	13000	11500	-	42500	28700	-	-	-	531000	35800	-	-	57000	38000	-
Selenium	**10**	-	-	4.8 U	4.8 U	-	4.8 U	**12.8**	-	-	-	**14.4 B**	**30.4**	-	-	**21.8**	4.8 U	-
Silver	**50**	-	-	1.0 U	1.0 U	-	1.0 U	1.0 U	-	-	-	2.0 U	1.0 U	-	-	**2.7 B**	1.0 U	-
Sodium	**20000**	-	-	**939000**	**962000**	-	**325000**	**374000**	-	-	-	**304000**	**295000**	-	-	**767000**	**414000**	-
Thallium	**0.5**	-	-	**1.9 U**	**1.9 U**	-	**1.9 U**	**1.9 U**	-	-	-	**3.7 U**	**1.9 U**	-	-	**1.9 U**	**1.9 U**	-
Vanadium	**--**	-	-	18.2	2.8 U	-	90.1	3.2 B	-	-	-	358	5.4 B	-	-	**154**	8.5 B	-
Zinc	**2000**	-	-	205	7.3 B	-	921	10.1 B	-	-	-	**3280**	47.2	-	-	1140	42.4	-
Dissolved Metals - ug/L[3]																		
Aluminum	**--**	1300	2260	40 U	40 U	3770	40 U	40 U	2200	270	269	40 U	40 U	12200	155	40 U	40 U	1130
Antimony	**330**	0.8	1.9	1.9 U	1.9 U	1.5 J	1.9 U	3.1 B	1.5 J	1.9 J	ND	1.9 U	1.9 U	ND	3 J	4.1 B	6 J	ND
Arsenic	**25**	4.1	3.4	2.9 U	3.5 B	7.5	2.9 U	2.9 U	3.1 J	ND	ND	2.9 U	2.9 U	5	ND	2.9 U	2.9 U	ND
Barium	**1000**	187.4	798.2	123	114	254.2	106	47.6 B	311.7	138.4	68.2	52.4	67.1	237.3	92.5	33.5 B	14.5 B	129.1
Beryllium	**3**	ND	0.2 J	0.25 U	0.25 U	ND	0.25 U	0.25 U	ND	ND	ND	0.25 U	0.25 U	2.2 J	ND	0.25 U	0.25 U	ND
Cadmium	**5**	0.2 J	0.5 J	0.50 U	0.50 U	0.8 J	0.50 U	0.50 U	0.7 J	0.8 J	ND	1.2 B	0.50 U	0.6 J	1.6 J	0.50 U	0.50 U	ND
Calcium	**--**	145000	209	91900	80900	208000	136000	117000	264000	459000	241000	365000	283000	442000	254000	182000	88200	215000
Chromium	**50**	3.7	4.8	1.4 U	1.4 U	7.1 J	1.4 U	1.4 U	6.2 J	ND	ND	1.4 U	1.4 U	14.7	ND	1.4 U	1.4 U	3.7 J
Cobalt	**--**	1.4	4.9	0.40 U	0.40 U	6.8	0.60 B	0.40 U	7.9	29.7	12.1	5.8 B	0.40 U	7.6	2.2 J	1.3 B	0.50 B	3.7 J
Copper	**200**	8.3	17.2	7.0 U	7.0 U	39.5	7.0 U	7.0 U	81.6	47.7 J	2.8 J	7.0 U	7.0 U	9 J	14.4	7.0 U	7.0 U	7.4 J
Iron	**300**	**6490**	**10200**	20 U	20 U	**21500**	70.8 B	20 U	**5930**	**3800**	**1720**	20 U	79.8 B	**8930**	**460 J**	21.8 B	26.6 B	**2330**
Lead	**25**	7.1	**39.1**	1.7 U	1.7 U	**46.7**	1.7 U	1.7 U	**56.5**	3.4 J	2.5 J	1.7 U	1.7 U	**50.4**	10.1	1.7 U	1.7 U	12.6
Magnesium	**35000**	**44700**	**43800**	8620	8070	**66200**	32500	13100	**61800**	**51600**	**35300**	**74900**	**60000**	**66500**	**42300**	**42300**	17400	**38600**
Manganese	**300**	**328.4**	**947.9**	**512**	**480**	**773.7**	**396**	15.8	**1474**	**1846**	**1543**	**1690**	11.7 B	**2132**	**1114**	146	26.4	**953.2**
Mercury	**0.7**	ND	ND	0.67 U	0.067 U	ND	0.067 U	0.067 U	ND	ND	ND	0.067 U	0.067 U	ND	ND	0.067 U	0.067 U	ND
Nickel	**100**	3.1	7.9	0.90 B	1.0 B	10.2	1.6 B	0.57 U	14.6	37.8	16.4	5.0 B	0.80 B	12.9	5.3	2.0 b	3.8 B	6.1
Potassium	**--**	74400	12000	10900	11300	35300	34500	26900	57500	181000	57400	42000	33700	126000	61000	50500	36600	39000
Selenium	**10**	ND	1 J	4.8 U	4.8 U	ND	4.8 U	**11.3**	ND	4 J	6 J	**23.6**	**28.5**	8 J	4 J	9.1 B	5.2 B	ND
Silver	**50**	ND	ND	1.0 U	1.0 U	ND	1.0 U	1.0 U	ND	ND	ND	1.0 U	1.0 U	ND	ND	1.0 U	1.0 U	ND
Sodium	**20000**	**464000**	**1150000**	**931000**	**939000**	**131000**	**316000**	**354000**	**1380000**	**966000**	**628000**	**373000**	**287000**	**374000**	**968000**	**751000**	**401000**	**758000**
Thallium	**0.5**	ND	0.1 J	1.9 U	1.9 U	ND	**1.9 U**	**1.9 U**	ND	ND	ND	**1.9 U**	**1.9 U**	ND	ND	**1.9 U**	**1.9 U**	ND
Vanadium	**--**	3.4 J	9.3	2.8 U	2.8 U	13.7 J	2.8 U	2.8 U	13.6 J	1.3 J	1.2 J	2.8 U	2.8 U	25.2 J	4.9 J	4.2 B	5.4 B	7.1 J
Zinc	**2000**	55.2	147.9	6.7 B	5.2 B	281.4	18.9 B	7.5 B	201.4	71.9 J	42.3 J	11.2 B	14.3 B	162.5	200.4	17.8 B	24.3	125.1

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per NYSDEC Division of Water Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations - GA Class (TOGS 1.1.1)
3. Values reported in mg/L and converted to ug/L for comparison to regulatory limits.
4. Sample collected by TurnKey in 2012.
5. Sample collected by EnSol in May 2013 using the bailer method.
6. Sample collected by EnSol in June 2013 using the low-flow method.
7. Sample collected by EnSol in June 2013 using the bailer method.
8. "R" designated monitoring wells indicate that the well was reinstalled and sampled by EnSol (May 2013).

Definitions:

ND = Parameter not detected above laboratory detection limit.
(-) = Parameter not analyzed at that location.
NA = Sample not analyzed for parameter.
"--" = No GWQS available.
J = Estimated value; result is less than the sample quantitation limit but greater than zero.
P = Used for a pesticide/aroclor target analyte when the concentration difference between 2 GC columns is greater than 25%; the lower value is flagged with "P".
U = Indicates a result < MDL.
B = Indicates a result > or = MDL but < RL.
BOLD = Indicates that the sample result exceeds GWQS/GV.

TABLE 3

SUMMARY OF POST-EXCAVATION SOIL ANALYTICAL RESULTS (BEHIND STEEL SHEETING)

125 MAIN STREET SITE

BUFFALO, NEW YORK

Parameter [1]	Residential SCOs [2]	Commercial SCOs [2]	Sample Locations							
			Post Exc 1	Post Exc 2	Post Exc 3	Post Exc 4	Post Exc 5	Post Exc 6	Post Exc 7	Post Exc 8
			9/5/2012	9/5/2012	9/5/2012	9/5/2012	9/5/2012	9/5/2012	9/5/2012	9/5/2012
Semi-Volatile Organic Compounds (SVOCs) - mg/Kg										
2-Chloronaphthalene	--	--	ND	ND	ND	ND	ND	ND	ND	ND
2-Methylnaphthalene	--	--	ND	ND	0.94 J	ND	ND	ND	ND	ND
Acenaphthene	**100**	**500**	ND	ND	1.9	0.29 J	ND	ND	ND	ND
Acenaphthylene	**100**	**500**	ND	11	ND	0.32 J	1.2	ND	ND	ND
Anthracene	**100**	**500**	0.45 J	6.3	4.4	0.79	3.8	0.82 J	ND	0.26 J
Benzo(a)anthracene	**1**	**5.6**	**1.7**	**14**	**6.2**	**2**	**6**	**2.1**	0.038 J	0.9
Benzo(a)pyrene	**1**	**1**	**1.7**	**15**	**5.3**	**1.8**	**4.7**	**2**	ND	0.91
Benzo(b)fluoranthene	**1**	**5.6**	**2.5**	**27**	**6.8**	**2.5**	**6.2**	**3**	0.064 J	**1.3**
Benzo(k)fluoranthene	**1**	**56**	0.93	**9.1**	**2.7**	0.94	**2.8**	**1 J**	ND	0.47 J
Chrysene	**1**	**56**	**1.9**	**19**	**5.8**	**2.1**	**5.8**	**2.2**	0.044 J	**1**
Indeno(1,2,3-cd)pyrene	**0.5**	**5.6**	**1.3**	**12**	**3.2**	**1.2**	**2.7**	**1.5**	ND	0.68 J
Dibenzo(a,h)anthracene	**0.33**	**0.56**	**0.26 J**	**2.6**	**0.85 J**	**0.28 J**	ND	ND	ND	ND
Benzo(g,h,i)perylene	**100**	**500**	1.2	11	2.6	1.1	2.3	1.3 J	ND	0.61 J
Fluoranthene	**100**	**500**	4.6	31	14	4.5	15	5.8	0.085 J	2.3
Fluorene	**100**	**500**	ND	ND	2.3	0.34 J	1.5	0.37 J	ND	ND
Naphthalene	**100**	**500**	ND	1.5 J	1.6 J	ND	ND	ND	ND	ND
Phenanthrene	**100**	**500**	2.3	7.1	15	3.1	14	3.6	ND	1.1
Pyrene	**100**	**500**	3.6	27	12	3.8	12	4.5	0.071 J	1.8
Total SVOCs	--	--	*22.44*	*193.6*	*85.59*	*25.06*	*78*	*28.19*	*0.302*	*11.33*
Total Metals - mg/Kg										
Arsenic	**16**	**16**	4.4	2.8	10	10	4.7	4.8	1.3	3.8
Barium	**350**	**400**	85	290	230	140	120	160	17	110
Cadmium	**2.5**	**9.3**	0.49	0.3 J	1.6 J	0.8	0.43	0.81	0.24 J	0.49
Chromium	**36**	**6800**	13	11	23	15	11	19	4.2	13
Lead	**400**	**1000**	73	70	**460**	**640**	120	82	9.3	61
Mercury	**0.81**	**2.8**	0.27	0.1	0.06 J	**2.8**	0.67	0.27	ND	0.18
Selenium	**36**	**1500**	1	3.6	0.76 J	0.98	1.2	1.6	0.28 J	1.3
Silver	**36**	**1500**	0.1 J	0.2 J	0.3 J	0.44 J	0.17 J	0.16 J	ND	ND

Notes:

1. Only those parameters detected at a minimum of one sample location are presented in this table; all other compounds were reported as non-detect.
2. Values per 6NYCRR Part 375 Soil Cleanup Objectives
3. Sample results were reported by the laboratory in ug/kg and converted to mg/kg for comparison to SCOs.

Definitions:

ND = Parameter not detected above laboratory detection limit.

J = Estimated value; result is less than the sample quantitation limit but greater than zero.

Exceeds Residential SCO

Exceeds Commercial SCO

TABLE 4
SUMMARY OF POST-EXCAVATION LABORATORY ANALYTICAL DATA (NORTH WALL)

2012-2013 INTERIM REMEDIAL MEASURES

125 MAIN STREET SITE
BUFFALO, NY

Site ID: 125 Main Street Site, Buffalo NY		NYSDEC PART 375 UNRESTRICTED USE SCOs	NYSDEC PART 375 RESTRICTED COMMERCIAL USE SCOs	North Wall - 1	North Wall - 2	North Wall - 3	North Wall - 4	North Wall - 5	North Wall - 6
Lab ID: 130222				SOIL / FILL	SOIL / FILL	SOIL / FILL	SOIL / FILL	SOIL / FILL	SOIL / FILL
Date Sample Collected:1/14/13				1/14/13	1/14/13	1/14/13	1/14/13	1/14/13	1/14/13
Sample Depth: Excavation Floor									
Parameter									
	Units	**mg/Kg**	**mg/Kg**	**Concentration**	**Concentration**	**Concentration**	**Concentration**	**Concentration**	**Concentration**
Semi Volatile Organics									
Acenapthene	mg/Kg	20	500	<, 0.320	< 0.320	< 0.320	< 0.330	< 0.340	< 0.330
Acenapthylene	mg/Kg	100	500	< 0.320	< 0.320	< 0.320	< 0.330	< 0.340	< 0.330
Anthracene	mg/Kg	100	500	< 0.320	< 0.320	0.180 J	< 0.330	< 0.340	0.280 J
Benzo (a) anthracene	mg/Kg	1	5.6	0.180 J	< 0.320	0.390	< 0.330	< 0.340	0.650
Benao (a) pyrene	mg/Kg	1	1	0.210 J	< 0.320	0.330	< 0.330	< 0.340	0.550
Benzo (b) fluoranthene	mg/Kg	1	5.6	0.190 J	< 0.320	0.320 J	< 0.330	< 0.340	0.500
Benzo (g,h,i) perylene	mg/Kg	100	500	0.160 J	< 0.320	0.210 J	< 0.330	< 0.340	0.330
Benzo (k) fluoranthene	mg/Kg	0.8	56	< 0.320	< 0.320	0.240 J	< 0.330	< 0.340	0.440
Chrysene	mg/Kg	1	56	0.200 J	< 0.320	0.410	< 0.330	< 0.340	0.670
Dibenzo (a,h) anthracene	mg/Kg	0.33	0.56	< 0.320	< 0.320	< 0.320	< 0.330	< 0.340	< 0.330
Fluoranthene	mg/Kg	100	500	0.360	< 0.320	0.830	< 0.330	0.220 J	1.3
Fluorene	mg/Kg	30	500	< 0.320	< 0.320	< 0.320	< 0.330	< 0.340	< 0.330
Indeno (1,2,3 - cd) pyrene	mg/Kg	0.5	5.6	< 0.320	< 0.320	0.280 J	< 0.330	< 0.340	0.420
Napthalene	mg/Kg	12	500	< 0.320	< 0.320	< 0.320	< 0.330	< 0.340	< 0.330
Phenanthrene	mg/Kg	100	500	0.250 J	< 0.320	0.820	< 0.330	< 0.340	1.0
Pyrene	mg/Kg	100	500	0.340	< 0.320	0.730	< 0.330	0.180 J	1.2
TAL Metals									
Arsenic	mg/Kg	13	16	4.0	5.3	4.8	5.7	4.8	8.8
Barium	mg/Kg	350	400	28	27	29	24	23	120 D
Cadmium	mg/Kg	2.5	9.3	< 0.59	0.39	0.44	0.43	0.44	1.4 D
Chromium	mg/Kg	30	1,500	7.1	12	10	11	12	13
Lead	mg/Kg	63	1,000	86	26	8.6	10	23	340
Mercury	mg/Kg	0.18	2.8	0.40	0.38	0.026	0.021	0.0048	0.0068
Selenium	mg/Kg	3.9	1,500	< 1.2	< 1.2	< 1.0	< 1.2	< 1.1	< 1.1
Silver	mg/Kg	2	1,500	< 1.2	< 1.2	< 1.0	< 1.2	< 1.1	< 1.1

Notes:

	Exceedence of NYSDEC Part 375 UNRESTRICTED USE soil cleanup objective
	Exceedence of NYSDEC Part 375 RESTRICTED COMMERCIAL USE soil cleanup objective
J	estimated value
D	Duplicate results outside QC limits. May indicate non-homogeneous matrix.
mg/Kg	Millograms/Kilogram (parts per million)

TABLE 5
SUMMARY OF POST-EXCAVATION LABORATORY ANALYTICAL DATA (NORTH FLOOR)

2012-2013 INTERIM REMEDIAL MEASURES (IRM)
CONFIRMATORY SAMPLES

125 MAIN STREET
BUFFALO, NY

Site ID: 125 Main Street, Buffalo NY		NYSDEC PART 375 UNRESTRICTED USE SCOs	NYSDEC PART 375 RESTRICTED COMMERCIAL USE SCOs	North Floor - 1	North Floor - 2	North Floor - 3	North Floor - 3A	North Floor - 4	North Floor - 5	North Floor - 6	North Floor - 6A	North Floor - 7	North Floor - 8	North Floor - 8A	North Floor - 9	North Floor - 10	North Floor - 11	North Floor - 12	North Floor - 13
Lab ID: 130222/130888				SOIL / FILL	SOIL / FILL	SOIL / FILL	SOIL / FILL	SOIL / FILL	SOIL / FILL	SOIL / FILL	SOIL / FILL	SOIL / FILL	SOIL / FILL	SOIL / FILL	SOIL / FILL	SOIL / FILL	SOIL / FILL	SOIL / FILL	SOIL / FILL
Date Sample Collected:Various				1/15/13	1/15/13	1/15/13	3/12/13	1/15/13	1/15/13	1/15/13	3/12/13	1/15/13	1/15/13	3/12/13	1/15/13	1/15/13	1/15/13	1/15/13	1/15/13
Sample Depth: Excavation Floor																			
Parameter																			
	Units	mg/Kg	mg/Kg	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration	Concentration
Semi Volatile Organics																			
Acenapthene	mg/Kg	20	500	< 0.4	0.770	0.190 J	-	< 0.340	0.590	0.540	-	< 0.360	19	1	0.420	1.1 J	< 0.340	< 0.350	< 0.330
Acenapthylene	mg/Kg	100	500	< 0.4	0.270 J	0.250 J	-	< 0.340	< 0.350	< 0.340	-	< 0.360	< 17	0.50 J	< 0.360	< 1.7	< 0.340	< 0.350	< 0.330
Anthracene	mg/Kg	100	500	< 0.4	1.8	0.540	-	< 0.340	0.920	0.920	-	< 0.360	49	2.6	0.790	2.4	< 0.340	0.250 J	0.170 J
Benzo (a) anthracene	mg/Kg	1	5.6	0.210 J	2.9	1.7	-	0.210 J	1.4	1.6	-	< 0.360	78	3.8	1.6	4.9	0.250 J	0.700	0.630
Benzo (a) pyrene	mg/Kg	1	1	< 0.4	2.3	1.6	-	< 0.340	1.1	1.4	-	< 0.360	58	3.1	1.3	3.9	0.230 J	0.640	0.650
Benzo (b) fluoranthene	mg/Kg	1	5.6	< 0.4	2.2	1.8	-	< 0.340	0.980	1.3	-	< 0.360	55	2.7	1.2	4.1	0.240 J	0.730	0.740
Benzo (g,h,i) perylene	mg/Kg	100	500	< 0.4	1.4	1.3	-	< 0.340	0.670	0.870	-	< 0.360	32	1.7	0.760	2.5	0.180 J	0.460	0.490
Benzo (k) fluoranthene	mg/Kg	0.8	56	< 0.4	1.7	1.3	-	< 0.340	0.850	0.960	-	< 0.360	38	2.2	0.980	2.7	0.210 J	0.430	0.460
Chrysene	mg/Kg	1	56	0.220 J	2.9	1.8	-	0.240 J	1.3	1.7	-	< 0.360	77	3.8	1.7	4.8	0.260 J	0.770	0.720
Dibenzo (a,h) anthracene	mg/Kg	0.33	0.56	< 0.4	0.360 J	0.250 J	-	< 0.340	< 0.350	< 0.340	-	< 0.360	< 17	0.50 J	< 0.360	< 1.7	< 0.340	< 0.350	< 0.330
Fluoranthene	mg/Kg	100	500	0.420	5.9	2.9	-	0.420	2.9	3.4	-	< 0.360	170	8.4	3.5	11.0	0.390	1.7	1.4
Fluorene	mg/Kg	30	500	< 0.4	0.720	0.190 J	-	< 0.340	0.570	0.470	-	< 0.360	34	1.1	0.350 J	1.2 J	< 0.340	< 0.350	< 0.330
Indeno (1,2,3 - cd) pyrene	mg/Kg	0.5	5.6	< 0.4	1.7	1.8	-	< 0.340	0.980	1.1	-	< 0.360	44	2.0	1.0	3.5	0.250 J	0.640	0.730
Napthalene	mg/Kg	12	500	< 0.4	0.500	< 0.360	-	< 0.340	0.510	0.540	-	< 0.360	28	0.99	< 0.360	2.1	< 0.340	< 0.350	< 0.330
Phenanthrene	mg/Kg	100	500	0.460	6.1	2.1	-	0.380	3.6	3.5	-	< 0.360	210	9.4	3.3	9.7	0.220 J	1.0	0.770
Pyrene	mg/Kg	100	500	0.360 J	5.2	2.5	-	0.350	2.6	3.0	-	< 0.360	140	7.2	3.2	9.4	0.350	1.4	1.2
TAL Metals																			
Arsenic	mg/Kg	13	16	20	120	100	18	4.5	6.0	18	8	6.4	16	13	11	8.7	8.5	5.4	4.5
Barium	mg/Kg	350	400	92	130	1900	130	66	200	210	260	81	350	290	140	270	250	150	110
Cadmium	mg/Kg	2.5	9.3	0.84	19	16	<0.77	0.47 J	1.1	2.4	0.7	2.6	2.9	2.5	4.2	1.6	0.66	0.69	0.52
Chromium	mg/Kg	30	1,500	15	19	38	18	15	11	12	17	17	15	23	9.4	8.9	19	13	12
Lead	mg/Kg	63	1,000	290	530	70,000	180	110	140	1,600	540	26	2,400	4,500	510	900	180	350	79
Mercury	mg/Kg	0.18	2.8	3.2	0.0091	5.7	0.21	1.5	< 0.0099	< 0.0092	<0.19	0.039	< 0.010	<0.17	0.87	< 0.0087	< 0.010	< 0.0098	< 0.0092
Selenium	mg/Kg	3.9	1,500	1.2 J	< 1.5	14	<1.5	< 1.2	< 1.1	< 1.3	2.8	< 1.3	3.0	3.7	2.6	1.2	< 1.2	< 1.2	< 1.0
Silver	mg/Kg	2	1,500	< 1.4	1.6	2.9	<1.5	< 1.2	1.0 J	3.8	2.6	< 1.3	0.85 J	3.1	0.72 J	< 1.2	1.4	0.60 J	< 1.0

Notes:

	Exceedence of NYSDEC Part 375 UNRESTRICTED USE soil cleanup objective
	Exceedence of NYSDEC Part 375 RESTRICTED COMMERCIAL USE soil cleanup objective
J	estimated value
mg/Kg	Millograms/Kilogram (parts per million)

"A" Samples were collected once overexcavation of the floor (approximately 6"-8") was complete. "A" samples were only analyzed for those parameters that significantly exceeded the Commercial Use SCO's during initial analysis.

TABLE 6
SUMMARY OF POST-EXCAVATION LABORATORY ANALYTICAL DATA (EAST FLOOR)

2012-2013 INTERIM REMEDIAL MEASURES (IRM)
CONFIRMATORY SAMPLES

125 MAIN STREET
BUFFALO, NY

Site ID: 125 Main Street, Buffalo NY		NYSDEC PART 375 UNRESTRICTED USE SCOs	NYSDEC PART 375 RESTRICTED COMMERCIAL USE SCOs	East Floor - 1	East Floor - 2	East Floor - 2A	East Floor - 3	East Floor - 4	East Floor - 5	East Floor - 6	East Floor - 7
Lab ID: 130287/130888				SOIL / FILL	SOIL / FILL	SOIL / FILL	SOIL / FILL	SOIL / FILL	SOIL / FILL	SOIL / FILL	Crushed Stone
Date Sample Collected: Various				1/18/13	1/18/13	3/12/13	1/18/13	1/18/13	1/18/13	1/18/13	1/18/13
Sample Depth: Excavation Floor											
Parameter											
	Units	**mg/Kg**	**mg/Kg**	**Concentration**	**Concentration**	**Concentration**	**Concentration**	**Concentration**	**Concentration**	**Concentration**	**Concentration**
Semi Volatile Organics											
Acenapthene	mg/Kg	20	500	0.29 J,M	24	<0.35	0.23 J	1	<0.34	0.45	0.17 J
Acenapthylene	mg/Kg	100	500	0.29 J	<8.1	<0.35	0.20 J	<0.67	<0.34	<0.31	<0.31
Anthracene	mg/Kg	100	500	0.90	33	0.28 J	0.6	2.3	<0.34	1.1	0.46
Benzo (a) anthracene	mg/Kg	1	5.6	2.20	38	0.71	1.3	4.2	0.36	1.9	0.67
Benao (a) pyrene	mg/Kg	1	1	2.00	25	0.58	1.1	3.1	0.33 J	1.6	0.54
Benzo (b) fluoranthene	mg/Kg	1	5.6	1.80	24	0.52	1.1	2.9	0.33 J	1.6	0.60
Benzo (g,h,i) perylene	mg/Kg	100	500	1.30	11	0.31 J	0.8	1.7	0.22 J	1.0	0.35
Benzo (k) fluoranthene	mg/Kg	0.8	56	1.50	17	0.50	0.8	2.4	0.23 J	1.2	0.35
Chrysene	mg/Kg	1	56	2.20	36	0.74	1.3	4.1	0.36	1.9	0.73
Dibenzo (a,h) anthracene	mg/Kg	0.33	0.56	0.29 J	<8.1	<0.35	<0.33	0.48 J	<0.34	0.23 J	<0.31
Fluoranthene	mg/Kg	100	500	4.20	87	1.50	2.6	7.9	0.94	4.3	1.6
Fluorene	mg/Kg	30	500	0.36	22	<0.35	0.27 J	0.97	<0.34	0.52	0.19 J
Indeno (1,2,3 - cd) pyrene	mg/Kg	0.5	5.6	1.80	18	0.56	0.9	2.3	0.32 J	1.4	0.45
Napthalene	mg/Kg	12	500	<3.4	17	<0.35	<0.33	0.50 J	<0.34	0.34	0.18 J
Phenanthrene	mg/Kg	100	500	3.40	120	1.20	2.2	7.8	0.71	4.1	1.5
Pyrene	mg/Kg	100	500	3.7 M	73	1.30	2.3	6.8	0.78	3.6	1.3
TAL Metals											
Arsenic	mg/Kg	13	16	24 D	19	29	7	11	1 J	4.6	2.3
Barium	mg/Kg	350	400	290 D	100	110	260	150	330	73	16
Cadmium	mg/Kg	2.5	9.3	3.1 D	2.3	1.1	0.49 J	1.50	<0.55	0.4	<0.58
Chromium	mg/Kg	30	1,500	20 D	11	12	9	13	17	7	<1.2
Lead	mg/Kg	63	1,000	920 D,M	1100	610	220	540	4	60	23
Mercury	mg/Kg	0.18	2.8	< 0.0095 M	1.3	13	<0.0098	< 0.0097	< 0.0092	< 0.0085	< 0.0090
Selenium	mg/Kg	3.9	1,500	4.2	2.2	1.2	<1.1	<1.2	<1.1	<1.2	<1.2
Silver	mg/Kg	2	1,500	1.2	1.1	1.7	0.58 J	0.80 J	1.8	<1.2	0.66 J
Volatile Organics											
1,2,4-Trimethylbenzene	mg/Kg	3.6	190	NA	NA	NA	NA	NA	NA	NA	<0.003
1,3,5-Trimethylbenzene	mg/Kg	8.4	190	NA	NA	NA	NA	NA	NA	NA	<0.003
Benzene	mg/Kg	0.06	44	NA	NA	NA	NA	NA	NA	NA	<0.003
Ethylbenzene	mg/Kg	1	390	NA	NA	NA	NA	NA	NA	NA	<0.003
Isopropylbenzene	mg/Kg	-	-	NA	NA	NA	NA	NA	NA	NA	<0.003
m,p-Xylene	mg/Kg	0.26	500	NA	NA	NA	NA	NA	NA	NA	<0.003
MTBE	mg/Kg	0.93	500	NA	NA	NA	NA	NA	NA	NA	<0.003
Napthalene	mg/Kg	-	-	NA	NA	NA	NA	NA	NA	NA	<0.0074
n-Propylbenzene	mg/Kg	3.9	500	NA	NA	NA	NA	NA	NA	NA	<0.003
n-Butylbenzene	mg/Kg	12	-	NA	NA	NA	NA	NA	NA	NA	<0.003
o-Xylene	mg/Kg	0.26	500	NA	NA	NA	NA	NA	NA	NA	<0.003
p-Isopropyltoluene	mg/Kg	-	500	NA	NA	NA	NA	NA	NA	NA	<0.003
sec-Butylbenzene	mg/Kg	11	500	NA	NA	NA	NA	NA	NA	NA	<0.003
tert-Butylbenzene	mg/Kg	5.9	500	NA	NA	NA	NA	NA	NA	NA	<0.003
Toluene	mg/Kg	0.7	500	NA	NA	NA	NA	NA	NA	NA	0.0021

Notes:

	Exceedence of NYSDEC Part 375 UNRESTRICTED USE soil cleanup objective
	Exceedence of NYSDEC Part 375 RESTRICTED COMMERCIAL USE soil cleanup objective
J	estimated value
D	Duplicate results outside QC limits. May indicate non-homogeneous matrix.
M	Matrix spike recoveries outside QC limits. May indicate non-homogeneous matrix
mg/Kg	Millograms/Kilogram (parts per million)
NA	Parameter not analyzed
(-)	No SCO available for this parameter

Sample location East Floor-7 represents the former 30,000 gallon fuel UST area. Remediation of this area was completed in December 2008.
"A" Samples were collected once overexcavation of the floor (approximately 6"-8") was complete. "A" samples were only analyzed for those parameters that significantly exceeded the Commercial Use SCO's during initial analysis.

TABLE 6
SUMMARY OF POST-EXCAVATION LABORATORY ANALYTICAL DATA (EAST FLOOR)

2012-2013 INTERIM REMEDIAL MEASURES (IRM)
CONFIRMATORY SAMPLES

125 MAIN STREET
BUFFALO, NY

Site ID: 125 Main Street, Buffalo NY		NYSDEC PART 375 UNRESTRICTED USE SCOs	NYSDEC PART 375 RESTRICTED COMMERCIAL USE SCOs	East Floor - 8	East Floor - 9	East Floor - 10	East Floor - 11	East Floor - 12	East Floor - 13	East Floor - 14	East Floor - 15
Lab ID:				SOIL / FILL	SOIL / FILL	SOIL / FILL	SOIL / FILL	SOIL / FILL	SOIL / FILL	SOIL / FILL	Soil/Fill
Date Sample Collected: 5/15/13				5/15/13	5/15/13	5/15/13	5/15/13	5/15/13	5/15/13	5/15/13	5/15/13
Sample Depth: Excavation Floor											
Parameter											
	Units	**mg/Kg**	**mg/Kg**	**Concentration**	**Concentration**	**Concentration**	**Concentration**	**Concentration**	**Concentration**	**Concentration**	**Concentration**
Semi Volatile Organics											
Acenapthene	mg/Kg	20	500	<0.317	<0.310	<0.317	<0.314	<0.298	0.163 J	<0.333	<0.317
Acenapthylene	mg/Kg	100	500	<0.317	<0.310	<0.317	<0.314	<0.298	0.245 J	<0.333	<0.317
Anthracene	mg/Kg	100	500	<0.317	<0.310	<0.317	0.246 J	<0.298	0.618	0.206 J	0.331
Benzo (a) anthracene	mg/Kg	1	5.6	<0.317	0.306 J	<0.317	0.777	<0.298	1.800	0.563	0.850
Benao (a) pyrene	mg/Kg	1	1	<0.317	0.247 J	<0.317	0.710	<0.298	1.480	0.492	0.708
Benzo (b) fluoranthene	mg/Kg	1	5.6	<0.317	0.233 J	<0.317	1.350	<0.298	1.290	0.499	0.679
Benzo (g,h,i) perylene	mg/Kg	100	500	<0.317	<0.310	<0.317	0.514	<0.298	0.743	0.302 J	0.458
Benzo (k) fluoranthene	mg/Kg	0.8	56	<0.317	0.190 J	<0.317	1.240	<0.298	1.110	0.347	0.570
Chrysene	mg/Kg	1	56	<0.317	0.307 J	<0.317	0.927	<0.298	1.800	0.584	0.910
Dibenzo (a,h) anthracene	mg/Kg	0.33	0.56	<0.317	<0.310	<0.317	<0.314	<0.298	0.218 J	<0.333	<0.317
Fluoranthene	mg/Kg	100	500	<0.317	0.589	<0.317	2.030	<0.298	3.180	1.070	1.770
Fluorene	mg/Kg	30	500	<0.317	<0.310	<0.317	<0.314	<0.298	<0.326	<0.333	<0.317
Indeno (1,2,3 - cd) pyrene	mg/Kg	0.5	5.6	<0.317	0.426	<0.317	0.674	<0.298	0.960	0.552	0.706
Napthalene	mg/Kg	12	500	<0.317	<0.310	<0.317	<0.314	<0.298	<0.326	<0.333	<0.317
Phenanthrene	mg/Kg	100	500	<0.317	0.530	<0.317	1.260	<0.298	2.360	0.845	1.340
Pyrene	mg/Kg	100	500	<0.317	0.578	<0.317	1.810	<0.298	3.100	1.020	1.680
TAL Metals											
Arsenic	mg/Kg	13	16	3.01	4.97	0.551 J	2.43	1.73	5.26	13.3	3.51 D
Barium	mg/Kg	350	400	19.2	71.8	208	42.1	15.9	74.5	80.7	76.6
Cadmium	mg/Kg	2.5	9.3	0.277 J	0.302 J	<0.510	0.273 J	<0.511	0.426 J	0.376 J	0.269 J
Chromium	mg/Kg	30	1,500	9.29	9.54	12.7	10.3	3.59	8.84	10.4	8.69 D
Lead	mg/Kg	63	1,000	7.34	197	7.98	64.6	9.79	282	185	88.6 D
Mercury	mg/Kg	0.18	2.8	0.00967 J	1.21	<0.0162	0.297	0.0749	0.395	1.36	0.327 D
Selenium	mg/Kg	3.9	1,500	<1.10	0.548 J	0.594 J	0.582 J	<1.02	0.651 J	<1.16	<1.03
Silver	mg/Kg	2	1,500	0.846 J	0.972 J	1.6	1.14	<1.02	0.886 J	0.840 J	1.115

Notes:

	Exceedence of NYSDEC Part 375 UNRESTRICTED USE soil cleanup objective
	Exceedence of NYSDEC Part 375 RESTRICTED COMMERCIAL USE soil cleanup objective
J	estimated value
D	Duplicate results outside QC limits. May indicate non-homogeneous matrix.
M	Matrix spike recoveries outside QC limits. May indicate non-homogeneous matrix
mg/Kg	Millograms/Kilogram (parts per million)
NA	Parameter not analyzed
(-)	No SCO available for this parameter

TABLE 7
SUMMARY OF POST-EXCAVATION LABORATORY ANALYTICAL DATA (EAST WALL)

2012-2013 INTERIM REMEDIAL MEASURES

125 MAIN STREET SITE
BUFFALO, NY

Site ID: 125 Main Street Site, Buffalo NY		NYSDEC PART 375 UNRESTRICTED USE SCOs	NYSDEC PART 375 RESTRICTED COMMERCIAL USE SCOs	East Wall - 1	East Wall - 2	East Wall - 3	East Wall - 4
Lab ID: 130995				SOIL / FILL	SOIL / FILL	SOIL / FILL	SOIL / FILL
Date Sample Collected:3/21/13				3/21/13	3/21/13	3/21/13	3/21/13
Sample Depth: Excavation Wall							
Parameter							
	Units	**mg/Kg**	**mg/Kg**	**Concentration**	**Concentration**	**Concentration**	**Concentration**
Semi Volatile Organics							
Acenapthene	mg/Kg	20	500	<0.29	0.18 J	<0.34	<0.31
Acenapthylene	mg/Kg	100	500	<0.29	<0.32	<0.34	<0.31
Anthracene	mg/Kg	100	500	<0.29	0.41	0.20 J	0.19 J
Benzo (a) anthracene	mg/Kg	1	5.6	<0.29	1.10	0.78	1.10
Benao (a) pyrene	mg/Kg	1	1	<0.29	1.10	0.72	0.91
Benzo (b) fluoranthene	mg/Kg	1	5.6	<0.29	1.00	0.67	0.82
Benzo (g,h,i) perylene	mg/Kg	100	500	<0.29	0.74	0.46	0.51
Benzo (k) fluoranthene	mg/Kg	0.8	56	<0.29	0.88	0.59	0.83
Chrysene	mg/Kg	1	56	<0.29	1.30	0.84	1.00
Dibenzo (a,h) anthracene	mg/Kg	0.33	0.56	<0.29	<0.32	<0.34	<0.31
Fluoranthene	mg/Kg	100	500	<0.29	2.50	1.60	1.60
Fluorene	mg/Kg	30	500	<0.29	0.20 J	<0.34	<0.31
Indeno (1,2,3 - cd) pyrene	mg/Kg	0.5	5.6	<0.29	0.83	0.60	0.70
Napthalene	mg/Kg	12	500	<0.29	0.25 J	<0.34	<0.31
Phenanthrene	mg/Kg	100	500	<0.29	1.70	0.85	0.43
Pyrene	mg/Kg	100	500	<0.29	2.10	1.40	1.40
TAL Metals							
Arsenic	mg/Kg	13	16	2.8	3.8	23.0	4.4
Barium	mg/Kg	350	400	44	66	120	33
Cadmium	mg/Kg	2.5	9.3	0.34 J	0.45 J	0.59 J	0.36 J
Chromium	mg/Kg	30	1,500	8.2	15.0	12.0	7.3
Lead	mg/Kg	63	1,000	140	120	200	54
Mercury	mg/Kg	0.18	2.8	0.60	0.27	0.39	0.25
Selenium	mg/Kg	3.9	1,500	<1.0	<1.1	<1.2	<1.1
Silver	mg/Kg	2	1,500	0.67 J	1.10	0.65 J	1.0 J

Notes:

	Exceedence of NYSDEC Part 375 UNRESTRICTED USE soil cleanup objective
	Exceedence of NYSDEC Part 375 RESTRICTED COMMERCIAL USE soil cleanup objective
J	estimated value
D	Duplicate results outside QC limits. May indicate non-homogeneous matrix.
mg/Kg	Millograms/Kilogram (parts per million)

TABLE 8

COST ESTIMATE

TRACK 4 RESTRICTED USE ALTERNATIVE

125 MAIN ST. SITE

BUFFALO, NY

ITEM	QUANTITY	UNITS	$/UNIT	COST
Site Remediation				
Engineering / Design	1	ea	$ 50,000	$ 50,000
Sheet Pile Shoring	31,545	sft	$ 47	$ 1,482,615
Excavation	11,875	cyd	$ 5	$ 59,375
Transportation and Disposal	19,000	ton	$ 27.20	$ 516,800
Oversight and Environmental Monitoring	130	day	$ 600	$ 78,000
Sampling and Analysis (Waste Char)	20	ea	$ 1,000	$ 20,000
Sampling and Analysis (Post-Ex)	37	ea	$ 150	$ 5,550
SUBTOTAL:				**$ 2,212,340**
Site Cover System				
Geotextile	55,793	sft	$ 0.16	$ 8,927
ROC	2,111	tons	$ 16	$ 33,776
Concrete	435	cyd	$ 200	$ 87,000
Sand	96	tons	$ 20	$ 1,920
Pavers (Concrete)	20,188	sft	$ 5	$ 100,940
Backfill Soil	-	tons	$ 12	$ -
Material Sampling and Analysis	2	ea	$ 250	$ 500
SUBTOTAL:				**$ 233,063**
Institutional Controls				
Site Management Plan (SMP) Prep.	1	ea	$ 13,000	$ 13,000
SUBTOTAL:				**$ 13,000**
CAPITAL COSTS SUBTOTAL:				**$ 2,458,403**
Mob/Demob (5% of capital costs subtotal)	1	ea	$ 122,920	$ 122,920
Health and Safety (2% of capital costs subtotal)	1	ea	$ 49,168	$ 49,168
Contingency (10% of capital costs subtotal)	1	ea	$ 245,840	$ 245,840
TOTAL CAPITAL COSTS				**$ 5,334,734**
Annual Operation Maintenance & Monitoring (OMM)				
Site Maintenance	2	year	$ 5,000	$ 10,000
Annual Certification	1	year	$ 2,000	$ 2,000
Total Annual OMM Cost				**$ 12,000**
Number of Years				30
Interest Rate				5%
OMM Present Worth (PW)				**$ 184,469**
TOTAL PRESENT WORTH (CAPITAL COST + OMM PW)				**$ 5,519,204**

Notes:

1 - Under Track 4, the Site would remain in its current state (post-IRM construction) and a Site Management Plan (SMP) would be developed, implemented, and maintained. The SMP would include an IC/EC Plan, Excavation Work Plan, Site Monitoring Plan, and an Environmental Easement.

TABLE 9

COST ESTIMATE

TRACK 2 RESTRICTED USE ALTERNATIVE

125 MAIN ST. SITE

BUFFALO, NY

ITEM	QUANTITY	UNITS	$/UNIT	COST
Site Remediation				
Engineering / Geo Tech Investigation / Design	1	ea	$ 150,000	$ 150,000
Sheet Pile Shoring	31,545	sft	$ 47	$ 1,482,615
Building Slab and Foundation Shoring	15,755	sft	$ 125	$ 1,969,375
Excavation	24,123	cyd	$ 10	$ 241,235
Transportation and Disposal	38,598	ton	$ 27.20	$ 1,049,854
Oversight and Environmental Monitoring	180	day	$ 600	$ 108,000
Sampling and Analysis (Waste Char)	40	ea	$ 1,000	$ 40,000
Sampling and Analysis (Post-Ex)	25	ea	$ 150	$ 3,750
SUBTOTAL:				**$ 5,044,829**
Site Cover System				
Geotextile	55,793	sft	$ 0.16	$ 8,927
ROC	2,111	tons	$ 16	$ 33,776
Concrete	197	cyd	$ 200	$ 39,400
Sand	96	tons	$ 20	$ 1,920
Pavers (Concrete)	20,188	sft	$ 5	$ 100,940
Backfill Soil	38,598	tons	$ 12	$ 463,171
Material Sampling and Analysis	5	ea	$ 250	$ 1,250
SUBTOTAL:				**$ 649,384**
Institutional Controls				
Site Management Plan (SMP) Prep.	1	ea	$ 13,000	$ 13,000
SUBTOTAL:				**$ 13,000**
CAPITAL COSTS SUBTOTAL:				**$ 5,707,212**
Mob/Demob (5% of capital costs subtotal)	1	ea	$ 285,361	$ 285,361
Health and Safety (2% of capital costs subtotal)	1	ea	$ 114,144	$ 114,144
Contingency (10% of capital costs subtotal)	1	ea	$ 570,721	$ 570,721
TOTAL CAPITAL COSTS				**$ 12,384,651**
Annual Operation Maintenance & Monitoring (OMM)				
Site Maintenance	2	year	$ 5,000	$ 10,000
Annual Certification	1	year	$ 2,000	$ 2,000
Total Annual OMM Cost				**$ 12,000**
Number of Years				30
Interest Rate				5%
OMM Present Worth (PW)				**$ 184,469**
TOTAL PRESENT WORTH (CAPITAL COST + OMM PW)				**$ 12,569,120**

Notes:

1 - A Track 2 cleanup alternative would require excavation of additional impacted soil/fill material to a depth of a least 15 feet below grade (fbg). Soil/fill material at depths below 15 fbg with contaminants of potential concern (COPCs) above Commercial soil cleanup objectives (SCOs) would be left in place and mangaged pursuant to a Site Management Plan (SMP).

TABLE 10
COST ESTIMATE

TRACK 1 UNRESTRICTED USE ALTERNATIVE

125 MAIN ST. SITE
BUFFALO, NY

ITEM	QUANTITY	UNITS	$/UNIT	COST
Site Remediation				
Engineering / Geo Tech Investigation / Design	1	ea	$ 150,000	$ 150,000
Sheet Pile Shoring	40,060	sft	$ 47	$ 1,882,820
Building Slab and Foundation Shoring	15,755	sft	$ 150	$ 2,363,250
Excavation	35,937	cyd	$ 15	$ 539,054
Transportation and Disposal	57,499	ton	$ 27.20	$ 1,563,977
Oversight and Environmental Monitoring	300	day	$ 600	$ 180,000
Sampling and Analysis (Waste Char)	59	ea	$ 1,000	$ 59,000
Sampling and Analysis (Post-Ex)	30	ea	$ 150	$ 4,500
SUBTOTAL:				**$ 6,742,601**
Site Cover System				
Geotextile	55,793	sft	$ 0.16	$ 8,927
ROC	2,310	tons	$ 16	$ 36,960
Concrete	523	cyd	$ 200	$ 104,600
Sand	96	tons	$ 20	$ 1,920
Pavers (Concrete)	20,188	sft	$ 5	$ 100,940
Backfill Soil	57,499	tons	$ 12	$ 689,990
Material Sampling and Analysis	8	ea	$ 250	$ 2,000
SUBTOTAL:				**$ 945,337**
Institutional Controls				
Site Management Plan (SMP) Prep.	1	ea	$ 13,000	$ 13,000
SUBTOTAL:				**$ 13,000**
CAPITAL COSTS SUBTOTAL:				**$ 7,700,938**
Mob/Demob (5% of capital costs subtotal)	1	ea	$ 385,047	$ 385,047
Health and Safety (2% of capital costs subtotal)	1	ea	$ 154,019	$ 154,019
Contingency (10% of capital costs subtotal)	1	ea	$ 770,094	$ 770,094
TOTAL CAPITAL COSTS				**$ 16,711,035**
Annual Operation Maintenance & Monitoring (OMM)				
Site Maintenance	2	year		$ -
Annual Certification	1	year		$ -
Total Annual OMM Cost				**$ -**
Number of Years				30
Interest Rate				5%
OMM Present Worth (PW)				**$ -**
TOTAL PRESENT WORTH (CAPITAL COST + OMM PW)				**$ 16,711,035**

Notes:

1 - A Track 1 Unrestricted Use alternative would include the excavation and off-Site disposal of all impacted soil/fill material. Unrestricted Use alternatives cannot be supplemented by institutional controls.