Tables

Table 1

2008 Validated Sample Comparison (Soils)
Former Vacuum Oil Refinery
Rochester, New York

Chemical Name	Cas No.	Sample ID:	SB-018/4-6-062608	SB-018	SB-036/7.5-8(ROC)-062308	SB-036	SB-050/0-1(ROC)-062508	SB-050	SB-050/6-8-062508	SB-051/0-1(ROC)-070108	SB-051B	SB-052/0-1(ROC)-062608	SB-052	SB-052/6-8(ROC)-062608	SB-052	SB-053/0-1(ROC)-062608	SB-053	SB-070/6-7.5-062708	SB-070
		Depth:	4-6 ft bgs	4-8 ft bgs	7.5-8 ft bgs	7-8 ft bgs	0-1 ft bgs	0-1 ft bgs	6-8 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	6-8 ft bgs	6-8 ft bgs	0-1 ft bgs	0-1 ft bgs	6-7.5 ft bgs	6-7.5 ft bgs
		Sampler:	LaBella	Roux	LaBella	Roux	LaBella	Roux	LaBella	LaBella	Roux	LaBella	Roux	LaBella	Roux	LaBella	Roux	LaBella	Roux
Metals																			
Antimony	7440-36-0		**17.4 UJ**	NT	< 61 U	< 2.0	< 17.7 U	< 2.1	< 23 U	**18.1 UJ**	< 2.2	NT	<2.2	NT	< 2.1	**17.5 UJ**	< 2.3	**20.9 UJ**	< 2.2
Arsenic	7440-38-2		**3.9**	NT	**20.2**	**7.1**	**3.8**	**5.1**	**20.1**	**16.7**	**14.9**	NT	**5.4**	NT	**3.3**	**16.8**	**23**	**20.6**	**2.5**
Beryllium	7440-41-7		< 0.23 U	NT	< 0.81 U	**0.24 B**	< 0.24 U	**0.32 B**	**1.2**	**0.32**	**0.47**	NT	**0.48**	NT	**0.34 B**	**0.29**	**0.62**	**0.46**	**0.69**
Cadmium	7440-43-9		**0.27**	NT	< 0.81 U	< 0.39	**0.31**	**0.22 B**	**0.48**	**1.1**	**0.58**	NT	**0.10 B**	NT	< 0.41	**1.2**	< 0.46	**0.38**	< 0.44
Chromium Total	7440-47-3		**8.6**	NT	**33.1**	**9.8**	**6.5**	**7.3**	**16.7**	**16.7**	**14.7**	NT	**10.2**	NT	**9**	**15.7**	**13.9**	**15.6**	**13.8**
Copper	7440-50-8		**12.6 UJ**	NT	**29.6**	**16.4**	**13.4**	**22.5**	**139**	**53 UJ**	**45.3**	NT	**23**	NT	**11.9**	**50.9 UJ**	**58.6**	**11.2 UJ**	**7.9**
Lead	7439-92-1		**34.8 UJ**	NT	**223**	**242**	**182**	**148**	**1,130**	**174 UJ**	**204**	NT	**40.8**	NT	**6.7**	**164 UJ**	**157**	**12.9 UJ**	**12.8**
Mercury	7439-97-6		**0.035**	NT	**0.387**	**0.62**	**0.448**	**0.23**	**5.5**	**0.578**	**0.51**	NT	**0.36**	NT	**0.018 B**	**0.68**	**0.48**	< 0.02 U	**0.022 B**
Nickel	7440-02-0		**10.2**	NT	**24.9**	**11.4**	**4.9**	**9.6**	**26.8**	**18.5**	**18.4**	NT	**13.9**	NT	**14.6**	**18.4**	**19.2**	**19.4**	**16.2**
Selenium	7782-49-2		< 4.6 U	NT	< 16.3 U	< 2.0	< 4.7 U	**0.68 B**	< 6.1 U	< 4.8 U	**1.0 B**	NT	<2.2	NT	< 2.1	< 4.7 U	**1.2B**	< 5.6 U	< 2.2
Silver	7440-22-4		< 0.58 U	NT	< 2 U	**0.12 B**	< 0.59 U	**0.13 B**	< 0.77 U	< 0.6 U	**0.42 B**	NT	**0.15 B**	NT	< 0.51	< 0.58 U	**0.50 B**	< 0.7 U	< 0.54
Thallium	7440-28-0		< 6.9 U	NT	< 24.4 U	NT	< 7.1 U	NT	< 9.2 U	< 7.2 U	NT	NT	NT	NT	NT	< 7 U	NT	< 8.4 U	NT
Zinc	7440-66-6		**46.9 UJ**	NT	**134**	**51.6**	**110**	**129**	**376**	**281 UJ**	**268**	NT	**188**	NT	**49.6**	**317 UJ**	**136**	**68 UJ**	**76.4**
Pesticides																			
Methoxychlor [1,1,1-Trichloro-2,2-Bis (p-methoxphenyl)-ethane]	72-43-5		< 0.002 U	NT	< 0.110 U	< 0.032	< 0.002 U	< 0.003	< 2.5 U	< 0.019 U	< 0.003	NT	< 0.0017	NT	< 0.0017	< 0.01 U	< 0.0017	< 0.0021 U	< 0.0034
4,4'-DDD	72-54-8		< 0.002 U	NT	< 0.110 U	< 0.025	**0.0012 J**	< 0.0023	< 2.5 U	< 0.019 U	< 0.0023	NT	< 0.00079	NT	< 0.0017	< 0.01 U	< 0.0017	< 0.0021 U	< 0.0026
4,4'-DDE	72-55-9		< 0.002 U	NT	**0.026 J**	< 0.028	**0.001 J**	< 0.0026	< 2.5 U	< 0.019 U	< 0.0026	NT	< 0.0022	NT	< 0.00082	< 0.01 U	< 0.0008	< 0.0021 U	< 0.0029
4,4'-DDT	50-29-3		< 0.002 U	NT	< 0.110 U	< 0.029	**0.0035**	< 0.0027	< 2.5 U	**0.035**	< 0.0027	NT	< 0.0011	NT	< 0.0022	**0.014 J**	< 0.0022	< 0.0021 U	< 0.003
Aldrin	309-00-2		< 0.002 U	NT	< 0.110 U	< 0.026	< 0.002 U	< 0.0068	< 2.5 U	< 0.019 U	< 0.00068	NT	< 0.00069	NT	< 0.00072	< 0.01 U	< 0.0007	< 0.0021 U	< 0.0027
alpha-BHC	319-84-6		< 0.002 U	NT	< 0.110 U	< 0.022	< 0.002 U	< 0.00053	< 2.5 U	< 0.019 U	< 0.00054	NT	< 0.00054	NT	< 0.00056	< 0.01 U	< 0.00055	**0.00093**	< 0.0024
beta-BHC	319-85-7		< 0.002 U	NT	< 0.110 U	**0.0488 J**	< 0.002 U	< 0.00086	< 2.5 U	< 0.019 U	< 0.00087	NT	< 0.00088	NT	< 0.00092	< 0.01 U	< 0.00089	< 0.0021 U	< 0.003
Toxaphene [Camphechlor]	8001-35-2		< 0.02 U	NT	< 1.100 U	NT	< 0.02 U	NT	< 25 U	< 0.190 U	NT	NT	NT	NT	NT	< 0.1 U	NT	< 0.021 U	NT
Chlordane	57-74-9		< 0.02 U	NT	**1.100 UJ**	< 0.03	**0.020 UJ**	< 0.0028	**25 UJ**	< 0.190 U	< 0.0028	NT	< 0.0031	NT	< 0.0029	< 0.1 U	< 0.0028	< 0.021 U	< 0.0031
delta-BHC	319-86-8		< 0.002 U	NT	< 0.110 U	< 0.022	< 0.002 U	< 0.0011	< 2.5 U	< 0.019 U	< 0.0011	NT	< 0.0011	NT	< 0.0012	**0.0037 J**	< 0.0012	< 0.0021 U	< 0.0024
Dieldrin	60-57-1		< 0.002 U	NT	< 0.110 U	< 0.026	**0.0011 J**	< 0.0011	< 2.5 U	**0.0089 J**	< 0.0011	NT	< 0.0011	NT	< 0.0011	**0.0049 J**	< 0.0011	**0.0007 J**	< 0.0028
Endosulfan I	959-98-8		< 0.002 U	NT	< 0.110 U	NT	< 0.002 U	NT	< 2.5 U	**0.0043 BJ**	NT	NT	NT	NT	NT	< 0.01 U	NT	< 0.0021 U	NT
Endosulfan II	33213-65-9		< 0.002 U	NT	**0.110 UJ**	NT	**0.002 UJ**	NT	**2.5 UJ**	< 0.019 U	NT	NT	NT	NT	NT	**0.0082 J**	NT	< 0.0021 U	NT
Endosulfan sulfate	1031-07-8		< 0.002 U	NT	< 0.110 U	NT	< 0.002 U	NT	< 2.5 U	< 0.019 U	NT	NT	NT	NT	NT	< 0.01 U	NT	< 0.0021 U	NT
Endrin	72-20-8		**0.00075 J**	NT	< 0.110 U	NT	< 0.002 U	NT	< 2.5 U	< 0.019 U	NT	NT	NT	NT	NT	**0.0037 J**	NT	< 0.0021 U	NT
Endrin Aldehyde	7421-93-4		< 0.002 U	NT	< 0.110 U	< 0.026	< 0.002 U	< 0.0021	< 2.5 U	< 0.019 U	< 0.0021	NT	< 0.0021	NT	< 0.0022	< 0.01 U	< 0.0022	**0.0035**	< 0.0027
Endrin Ketone	53494-70-5		NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT
gamma-BHC (Lindane)	58-89-9		< 0.002 U	NT	< 0.110 U	< 0.024	< 0.002 U	< 0.00071	< 2.5 U	< 0.019 U	< 0.00072	NT	< 0.00073	NT	< 0.00076	< 0.01 U	< 0.00074	< 0.0021 U	< 0.0026
Heptachlor	76-44-8		< 0.002 U	NT	< 0.110 U	NT	< 0.002 U	NT	< 2.5 U	< 0.019 U	NT	NT	NT	NT	NT	< 0.01 U	NT	< 0.0021 U	NT
Heptachlor epoxide	1024-57-3		< 0.002 U	NT	< 0.110 U	< 0.027	< 0.002 U	< 0.0013	< 2.5 U	**0.007 J**	< 0.0013	NT	< 0.0013	NT	< 0.0013	**0.0027 J**	< 0.0013	< 0.0021 U	< 0.0028

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		Depth:	4-6 ft bgs	4-8 ft bgs	7.5-8 ft bgs	7-8 ft bgs	0-1 ft bgs	0-1 ft bgs	6-8 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	6-8 ft bgs	6-8 ft bgs	0-1 ft bgs	0-1 ft bgs	6-7.5 ft bgs	6-7.5 ft bgs
Polychlorinated Biphenyls (PCBs)																			
Aroclor-1016 (PCB-1016)	12674-11-2		< 0.02 U	NT	< 0.021 U	NT	< 0.02 U	NT	< 25 U	< 0.019 U	NT	NT	NT	NT	NT	< 0.020 U	NT	< 0.021 U	NT
Aroclor-1221 (PCB-1221)	11104-28-2		< 0.02 U	NT	< 0.021 U	NT	< 0.02 U	NT	< 25 U	< 0.019 U	NT	NT	NT	NT	NT	< 0.020 U	NT	< 0.021 U	NT
Aroclor-1232 (PCB-1232)	11141-16-5		< 0.02 U	NT	< 0.021 U	NT	< 0.02 U	NT	< 25 U	< 0.019 U	NT	NT	NT	NT	NT	< 0.020 U	NT	< 0.021 U	NT
Aroclor-1242 (PCB-1242)	53469-21-9		**0.0068**	NT	< 0.021 U	NT	< 0.02 U	NT	< 25 U	< 0.019 U	NT	NT	NT	NT	NT	< 0.020 U	NT	< 0.021 U	NT
Aroclor-1248 (PCB-1248)	12672-29-6		< 0.02 U	NT	< 0.021 U	< 0.008	< 0.02 U	< 0.0075	< 25 U	< 0.019 U	< 0.0076	NT	< 0.0077	NT	< 0.008	< 0.020 U	< 0.0078	< 0.021 U	< 0.0086
Aroclor-1254 (PCB-1254)	11097-69-1		< 0.02 U	NT	< 0.021 U	< 0.012	< 0.02 U	< 0.0068	< 25 U	**0.092**	**0.231**	NT	< 0.0069	NT	< 0.0072	< 0.020 U	< 0.007	< 0.021 U	< 0.0077
Aroclor-1260 (PCB-1260)	11096-82-5		**0.020 UJ**	NT	< 0.021 U	< 0.016	**0.02 UJ**	< 0.011	**25 UJ**	**0.027**	< 0.011	NT	< 0.012	NT	< 0.012	< 0.020 U	< 0.012	< 0.021 U	< 0.013
Volatile Organic Compounds (VOCs)																			
1,1,1-Trichloroethane	71-55-6		< 0.006 U	NT	< 0.006 U	NT	< 0.006 U	NT	< 7 U	< 0.005 U	NT	< 0.006 U	NT	< 0.14 U	NT	< 0.006 U	NT	< 0.006 U	NT
1,1,2,2-Tetrachloroethane	79-34-5		< 0.006 U	NT	< 0.006 U	NT	< 0.006 U	NT	< 7 U	< 0.005 U	NT	< 0.006 U	NT	< 0.14 U	NT	< 0.006 U	NT	< 0.006 U	NT
1,1,2-Trichloroethane	79-00-5		< 0.006 U	NT	< 0.006 U	NT	< 0.006 U	NT	< 7 U	< 0.005 U	NT	< 0.006 U	NT	< 0.14 U	NT	< 0.006 U	NT	< 0.006 U	NT
1,1-Dichloroethane	75-34-3		< 0.006 U	NT	< 0.006 U	< 0.011	< 0.006 U	< 0.0086	< 7 U	< 0.005 U	< 0.009	< 0.006 U	< 0.0085	< 0.14 U	< 0.0092	< 0.006 U	< 0.0097	< 0.006 U	< 0.0099
1,1-Dichloroethylene (1,1-Dichloroethene)	75-35-4		< 0.006 U	NT	< 0.006 U	NT	< 0.006 U	NT	< 7 U	< 0.005 U	NT	< 0.006 U	NT	< 0.14 U	NT	< 0.006 U	NT	< 0.006 U	NT
1,2,3-Trichlorobenzene	87-61-6		NT	NT	NT	< 0.016	NT	< 0.013	NT	NT	< 0.013	NT	< 0.012	NT	< 0.014	NT	< 0.014	NT	< 0.015
1,2,4-Trichlorobenzene	120-82-1		< 0.006 U	NT	< 0.006 U	NT	< 0.006 U	NT	< 7 U	< 0.005 U	NT	< 0.006 U	NT	**0.14 J**	NT	< 0.006 U	NT	< 0.006 U	NT
1,2,4-Trimethylbenzene	95-63-6		NT	< 0.0092	NT	**5.79**	NT	< 0.0088	NT	NT	**0.0345 J**	NT	< 0.0087	NT	**2.31**	NT	< 0.01	NT	< 0.01
1,3,5-Trimethylbenzene	108-67-8		NT	< 0.0072	NT	**4.37**	NT	< 0.0069	NT	NT	**0.0162 J**	NT	< 0.0068	NT	**1.44**	NT	< 0.0079	NT	< 0.008
1,2-Dibromo-3-Chloropropane (DBCP)	96-12-8		NT	NT	NT	NT	< 0.006 U	NT	NT	< 0.005 U	NT	< 0.006 U	NT	**0.14 J**	NT	< 0.006 U	NT	< 0.006 U	NT
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4		NT	NT	NT	NT	< 0.006 U	NT	NT	< 0.005 U	NT	< 0.006 U	NT	< 0.14 U	NT	< 0.006 U	NT	< 0.006 U	NT
1,2-Dichlorobenzene	95-50-1		< 0.006 U	NT	< 0.006 U	NT	< 0.006 U	NT	< 7 U	< 0.005 U	NT	< 0.006 U	NT	< 0.14 U	NT	< 0.006 U	NT	< 0.006 U	NT
1,2-Dichloroethane	107-06-2		< 0.006 U	NT	< 0.006 U	NT	< 0.006 U	NT	< 7 U	< 0.005 U	NT	< 0.006 U	NT	< 0.14 U	NT	< 0.006 U	NT	< 0.006 U	NT
1,2-Dichloropropane	78-87-5		< 0.006 U	NT	< 0.006 U	NT	< 0.006 U	NT	< 7 U	< 0.005 U	NT	< 0.006 U	NT	< 0.14 U	NT	< 0.006 U	NT	< 0.006 U	NT
1,4-Dichlorobenzene	106-46-7		< 0.006 U	NT	< 0.006 U	NT	< 0.006 U	NT	< 7 U	< 0.005 U	NT	< 0.006 U	NT	< 0.14 U	NT	< 0.006 U	NT	< 0.006 U	NT
2-Butanone (Methyl Ethyl Ketone)	78-93-3		< 0.029 U	NT	**0.052**	**0.554**	< 0.031 U	< 0.35	**16 J**	< 0.027 U	< 0.37	< 0.028 U	< 0.35	< 0.71 U	< 0.38	< 0.030 U	< 0.4	**0.012 J**	< 0.4
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	108-10-1		< 0.029 U	NT	< 0.030 U	NT	< 0.031 U	NT	< 37 U	< 0.027 U	NT	< 0.028 U	NT	< 0.71 U	NT	< 0.030 U	NT	< 0.031 U	NT
Acetone	67-64-1		**0.059**	NT	**0.240**	**1.4**	< 0.031 U	< 0.09	**95**	**0.027**	< 0.094	< 0.028 U	< 0.089	< 0.71 U	< 0.096	< 0.030 U	< 0.1	**0.076 B**	< 0.1
Benzene	71-43-2		< 0.006 U	< 0.0037	**0.002 J**	**0.0713**	< 0.006 U	< 0.0036	< 7 U	< 0.005 U	< 0.0038	< 0.006 U	< 0.0036	< 0.14 U	< 0.0039	< 0.006 U	< 0.0041	< 0.006 U	< 0.0041
Bromodichloromethane	75-27-4		< 0.006 U	NT	< 0.006 U	NT	< 0.006 U	NT	< 7 U	< 0.005 U	NT	< 0.006 U	NT	< 0.14 U	NT	< 0.006 U	NT	< 0.006 U	NT
Bromomethane	74-83-9		< 0.006 U	NT	< 0.006 U	NT	< 0.006 U	NT	< 7 U	< 0.005 U	NT	< 0.006 U	NT	**0.140 J**	NT	< 0.006 U	NT	< 0.006 U	NT
n-Butylbenzene	104-51-8		NT	< 0.011	NT	**1.15**	NT	< 0.011	NT	NT	< 0.012	NT	< 0.011	NT	**0.247 J**	NT	< 0.013	NT	< 0.013
sec-Butylbenzene	135-98-8		NT	< 0.0065	NT	**0.207 J**	NT	< 0.0062	NT	NT	< 0.0065	NT	< 0.0062	NT	**0.128 J**	NT	< 0.0071	NT	< 0.0072
tert-Butylbenzene	98-06-6		NT	< 0.0082	NT	< 0.01	NT	< 0.0079	NT	NT	< 0.0082	NT	< 0.0078	NT	**0.0757 J**	NT	< 0.0089	NT	< 0.0091
Carbon disulfide	75-15-0		< 0.006 U	NT	**0.003 J**	NT	**0.006 UJ**	NT	**7 UJ**	< 0.005 U	NT	**0.006 UJ**	NT	< 0.14 U	NT	< 0.006 U	NT	< 0.006 U	NT
Carbon Tetrachloride	56-23-5		< 0.006 U	NT	< 0.006 U	NT	< 0.006 U	NT	< 7 U	< 0.005 U	NT	< 0.006 U	NT	< 0.14 U	NT	< 0.006 U	NT	< 0.006 U	NT
CFC-11 (Freon 11, Trichlorofluoromethane)	75-69-4		< 0.006 U	NT	< 0.006 U	NT	< 0.006 U	NT	< 7 U	< 0.005 U	NT	< 0.006 U	NT	< 0.14 U	NT	< 0.006 U	NT	< 0.006 U	NT
CFC-12 (Freon 12, Dichlorodifluoromethane)	75-71-8		< 0.006 U	NT	< 0.006 U	NT	**0.006 UJ**	NT	**7 UJ**	< 0.005 U	NT	**0.006 UJ**	NT	< 0.14 U	NT	< 0.006 U	NT	< 0.006 U	NT
Chlorinated Fluorocarbon (Freon 113, 1,1,2-Trichloro 1,2,2-trifluoroethane)	76-13-1		< 0.006 U	NT	< 0.006 U	NT	**0.006 UJ**	NT	**7 UJ**	< 0.005 U	NT	**0.006 UJ**	NT	< 0.14 U	NT	< 0.006 U	NT	< 0.006 U	NT
Chlorobenzene	108-90-7		< 0.006 U	NT	< 0.006 U	< 0.009	< 0.006 U	< 0.007	< 7 U	< 0.005 U	< 0.0073	< 0.006 U	< 0.0069	< 0.14 U	< 0.0075	< 0.006 U	< 0.008	< 6 U	< 0.0081
Chlorodibromomethane (Dibromochloromethane)	124-48-1		< 0.006 U	NT	< 0.006 U	NT	< 0.006 U	NT	< 7 U	< 0.005 U	NT	< 0.006 U	NT	< 0.14 U	NT	< 0.006 U	NT	< 0.006 U	NT

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		Depth:	4-6 ft bgs	4-8 ft bgs	7.5-8 ft bgs	7-8 ft bgs	0-1 ft bgs	0-1 ft bgs	6-8 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	6-8 ft bgs	6-8 ft bgs	0-1 ft bgs	0-1 ft bgs	6-7.5 ft bgs	6-7.5 ft bgs
Chloroethane	75-00-3		< 0.006 U	NT	< 0.006 U	NT	< 0.006 U	NT	< 7 U	< 0.005 U	NT	< 0.006 U	NT	**0.140 J**	NT	< 0.006 U	NT	< 0.006 U	NT
Chloroform	67-66-3		< 0.006 U	NT	< 0.006 U	**0.163 JB**	< 0.006 U	< 0.0043	< 7 U	< 0.005 U	< 0.0045	< 0.006 U	**0.115 JB**	**0.140 J**	**0.116 JB**	< 0.006 U	< 0.0049	< 0.006 U	**0.0995 J**
Chloromethane	74-87-3		< 0.006 U	NT	< 0.006 U	NT	< 0.006 U	NT	< 7 U	< 0.005 U	NT	< 0.006 U	NT	**0.140 J**	NT	< 0.006 U	NT	< 0.006 U	NT
cis-1,2-Dichloroethene	156-59-2		< 0.006 U	NT	< 0.006 U	< 0.012	< 0.006 U	< 0.0094	< 7 U	< 0.005 U	< 0.0098	< 0.006 U	< 0.0093	< 0.14 U	< 0.01	< 0.006 U	< 0.011	< 0.006 U	< 0.011
cis-1,3-Dichloropropene	10061-01-5		< 0.006 U	NT	< 0.006 U	NT	< 0.006 U	NT	< 7 U	< 0.005 U	NT	< 0.006 U	NT	< 0.14 U	NT	< 0.006 U	NT	< 0.006 U	NT
Cyclohexane	110-82-7		< 0.006 U	NT	**0.008**	NT	< 0.006 U	NT	**2 J**	< 0.005 U	NT	< 0.006 U	NT	< 0.14 U	NT	< 0.006 U	NT	< 0.006 U	NT
Dichloromethane (Methylene chloride)	75-09-2		**0.004**	NT	**0.010**	< 0.039	< 0.006 U	< 0.031	**3 J**	**0.002**	< 0.032	< 0.006 U	< 0.03	**0.140 J**	< 0.033	< 0.006 U	< 0.035	< 0.006 U	< 0.035
Ethylbenzene	100-41-4		< 0.006 U	< 0.014	**0.019**	**1.24**	< 0.006 U	< 0.014	< 7 U	< 0.005 U	< 0.014	< 0.006 U	< 0.013	< 0.14 U	< 0.015	< 0.006 U	< 0.015	< 0.006 U	< 0.016
Hexachlorobutadiene	87-68-3		NT	NT	NT	< 0.023	NT	< 0.018	NT	NT	< 0.018	NT	< 0.017	NT	< 0.019	NT	< 0.02	NT	< 0.02
Isopropylbenzene	98-82-8		< 0.006 U	< 0.0073	**0.002 J**	**0.291 J**	< 0.006 U	< 0.007	< 7 U	< 0.005 U	< 0.0073	< 0.006 U	< 0.0069	< 0.14 U	< 0.0075	< 0.006 U	< 0.008	< 0.006 U	< 0.0081
p-Isopropyltoluene	99-87-6		NT	< 0.0079	NT	**0.353 J**	NT	< 0.0076	NT	NT	< 0.008	NT	< 0.0076	NT	< 0.0082	NT	< 0.0087	NT	< 0.0088
M-Dichlorobenzene (1.3-Dichlorobenzene)	541-73-1		< 0.006 U	NT	< 0.006 U	NT	< 0.006 U	NT	< 7 U	< 0.005 U	NT	< 0.006 U	NT	< 0.14 U	NT	< 0.006 U	NT	< 0.006 U	NT
Methyl acetate	79-20-9		< 0.006 U	NT	**0.006 UJ**	NT	< 0.006 U	NT	< 7 U	< 0.005 U	NT	< 0.006 U	NT	**0.2**	NT	< 0.006 U	NT	< 0.006 U	NT
Methyl n-butyl ketone (2-Hexanone)	591-78-6		< 0.029 U	NT	0.030 U	NT	< 0.031 U	NT	< 37 U	< 0.027 U	NT	< 0.028 U	NT	< 0.71 U	NT	< 0.030 U	NT	< 0.031 U	NT
Methyl Tert Butyl Ether (MTBE)	1634-04-4		< 0.006 U	NT	< 0.006 U	NT	< 0.006 U	NT	< 7 U	< 0.005 U	NT	< 0.006 U	NT	< 0.14 U	NT	< 0.006 U	NT	< 0.006 U	NT
Methylcyclohexane	108-87-2		< 0.006 U	NT	**0.050**	NT	< 0.006 U	NT	**3 J**	< 0.005 U	NT	< 0.006 U	NT	< 0.14 U	NT	< 0.006 U	NT	< 0.006 U	NT
Naphthalene	91-20-3		NT	< 0.0095	NT	**0.629**	NT	< 0.0092	NT	NT	< 0.0096	NT	< 0.0091	NT	< 0.0099	NT	< 0.01	NT	< 0.011
n-Propylbenzene	103-65-1		NT	< 0.005	NT	**0.624**	NT	< 0.0048	NT	NT	< 0.005	NT	< 0.0048	NT	< 0.0052	NT	< 0.0055	NT	< 0.0055
Styrene (Monomer)	100-42-5		< 0.006 U	NT	< 0.006 U	NT	< 0.006 U	NT	< 7 U	< 0.005 U	NT	< 0.006 U	NT	< 0.14 U	NT	< 0.006 U	NT	< 0.006 U	NT
Tetrachloroethene	127-18-4		< 0.006 U	NT	< 0.006 U	NT	< 0.006 U	NT	< 7 U	< 0.005 U	NT	< 0.006 U	NT	< 0.14 U	NT	< 0.006 U	NT	< 0.006 U	NT
Toluene	108-88-3		< 0.006 U	< 0.0043	**0.026**	**0.935**	< 0.006 U	< 0.0041	< 7 U	< 0.005 U	< 0.0043	< 0.006 U	< 0.0041	< 0.14 U	< 0.0045	< 0.006 U	< 0.0047	< 0.006 U	< 0.0048
trans-1,2-Dichloroethene	156-60-5		< 0.006 U	NT	< 0.006 U	NT	< 0.006 U	NT	< 7 U	< 0.005 U	NT	< 0.006 U	NT	< 0.14 U	NT	< 0.006 U	NT	< 0.006 U	NT
trans-1,3-Dichloropropene	10061-02-6		< 0.006 U	NT	< 0.006 U	NT	< 0.006 U	NT	< 7 U	< 0.005 U	NT	< 0.006 U	NT	< 0.14 U	NT	< 0.006 U	NT	< 0.006 U	NT
Tribromomethane (Bromoform)	75-25-2		< 0.006 U	NT	< 0.006 U	NT	< 0.006 U	NT	< 7 U	< 0.005 U	NT	< 0.006 U	NT	< 0.14 U	NT	< 0.006 U	NT	< 0.006 U	NT
Trichloroethylene (Trichloroethene)	79-01-6		< 0.006 U	NT	< 0.006 U	< 0.011	< 0.006 U	< 0.0089	< 7 U	< 0.005 U	< 0.0093	< 0.006 U	< 0.0088	< 0.14 U	< 0.0096	< 0.006 U	< 0.01	< 0.006 U	< 0.01
Vinyl chloride	75-01-4		< 0.012 U	NT	< 0.012 U	NT	< 0.012 U	NT	< 15 U	< 0.011 U	NT	< 0.011 U	NT	< 0.280 U	NT	< 0.012 U	NT	< 0.012 U	NT
Xylenes (Total)	1330-20-7		< 0.017 U	< 0.0066	**0.100**	**7.3**	< 0.019 U	< 0.0064	< 22 U	< 0.016 U	**0.0656 J**	< 0.017 U	< 0.0063	< 0.420 U	< 0.0069	< 0.018 U	< 0.0073	< 0.018 U	< 0.0074
VOC TICs	NA		**0**	NT	**0.293**	NT	**0**	NT	**8 J**	**0**	NT	**0**	NT	**65.5 JN**	NT	**0**	NT	**0**	NT
Total VOCs	NA		**0.2145**	NT	**0.917**	NT	**0.2035**	NT	**319**	**0.172**	NT	**0.196**	NT	**70.14**	NT	**0.201**	NT	**0.26**	NT
Semi-Volatile Organic Compounds (SVOCs)																			
1,2-Benzphenanthracene (Chrysene)	218-01-9		0.063 R	< 0.0087	**2.7**	< 0.51	**0.18**	**0.951**	**210**	**1**	**0.955**	**0.12**	**9.4**	**0.03**	< 0.0089	**2.9**	**1.83**	0.032 R	< 0.0094
2,2'-oxybis(1-Chloropropane) [bis(2-chloro-1-methyletheyl) ether]	108-60-1		0.200 R	NT	< 11 U	NT	< 0.82 U	< 0.012	< 1,000 U	< 0.99 U	< 0.012	< 0.36 U	< 0.012	< 0.2 U	< 0.013	< 0.84 U	< 0.013	0.21 R	< 0.013
2,4,5-Trichlorophenol	95-95-4		0.200 R	NT	< 11 U	NT	< 0.82 U	NT	< 1,000 U	< 0.99 U	NT	< 0.36 U	NT	< 0.2 U	NT	< 0.84 U	NT	0.21 R	NT
2,4,6-Trichlorophenol	88-06-2		0.200 R	NT	< 11 U	NT	< 0.82 U	NT	< 1,000 U	< 0.99 U	NT	< 0.36 U	NT	< 0.2 U	NT	< 0.84 U	NT	0.21 R	NT
2,4-Dichlorophenol	120-83-2		0.200 R	NT	< 11 U	NT	< 0.82 U	NT	< 1,000 U	< 0.99 U	NT	< 0.36 U	NT	< 0.2 U	NT	< 0.84 U	NT	0.21 R	NT
2,4-Dimethylphenol	105-67-9		0.200 R	NT	< 11 U	< 1.8	< 0.82 U	< 0.03	< 1,000 U	< 0.99 U	< 0.029	< 0.36 U	< 0.029	< 0.2 U	< 0.031	< 0.84 U	< 0.031	0.21 R	< 0.033
2,4-Dinitrophenol	51-28-5		0.390 R	NT	< 21 U	NT	< 1.6 U	NT	< 2,000 U	< 1.9 U	NT	< 0.71 U	NT	< 0.38 U	NT	< 1.6 U	NT	0.41 R	NT
2,4-Dinitrotoluene	121-14-2		0.200 R	NT	< 11 U	NT	< 0.82 U	NT	< 1,000 U	< 0.99 U	NT	< 0.36 U	NT	< 0.2 U	NT	< 0.84 U	NT	0.21 R	NT
2,6-Dinitrotoluene	606-20-2		0.200 R	NT	< 11 U	< 0.42	< 0.82 U	< 0.007	< 1,000 U	< 0.99 U	< 0.0068	< 0.36 U	< 0.0069	< 0.2 U	< 0.0073	< 0.84 U	< 0.0072	0.21 R	< 0.0077
2-Chloronaphthalene	91-58-7		0.200 R	NT	< 11 U	NT	< 0.82 U	NT	< 1,000 U	< 0.99 U	NT	< 0.36 U	NT	< 0.2 U	NT	< 0.84 U	NT	0.21 R	NT
2-Chlorophenol	95-57-8		0.200 R	NT	< 11 U	NT	< 0.82 U	NT	< 1,000 U	< 0.99 U	NT	< 0.36 U	NT	< 0.2 U	NT	< 0.84 U	NT	0.21 R	NT

Table 1

2008 Validated Sample Comparison (Soils)
Former Vacuum Oil Refinery
Rochester, New York

Chemical Name		Sample ID:	SB-018/4-6-062608	SB-018	SB-036/7.5-8(ROC)-062308	SB-036	SB-050/0-1(ROC)-062508	SB-050	SB-050/6-8-062508	SB-051/0-1(ROC)-070108	SB-051B	SB-052/0-1(ROC)-062608	SB-052	SB-052/6-8(ROC)-062608	SB-052	SB-053/0-1(ROC)-062608	SB-053	SB-070/6-7.5-062708	SB-070
		Depth:	4-6 ft bgs	4-8 ft bgs	7.5-8 ft bgs	7-8 ft bgs	0-1 ft bgs	0-1 ft bgs	6-8 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	6-8 ft bgs	6-8 ft bgs	0-1 ft bgs	0-1 ft bgs	6-7.5 ft bgs	6-7.5 ft bgs
2-Methylnaphthalene	91-57-6		0.200 R	NT	< 11 U	NT	< 0.82 U	NT	< 1,000 U	**0.059 J**	NT	< 0.36 U	NT	< 0.2 U	NT	**0.35 J**	NT	0.21 R	NT
2-Methylphenol	95-48-7		0.200 R	NT	< 11 U	NT	< 0.82 U	NT	< 1,000 U	< 0.99 U	NT	< 0.36 U	NT	< 0.2 U	NT	< 0.84 U	NT	0.21 R	NT
2-Nitroaniline	88-74-4		0.390 R	NT	< 21 U	NT	< 1.6 U	NT	< 2,000 U	< 1.9 U	NT	< 0.71 U	NT	< 0.38 U	NT	< 1.6 U	NT	0.41 R	NT
2-Nitrophenol	88-75-5		0.200 R	NT	< 11 U	NT	< 0.82 U	NT	< 1,000 U	< 0.99 U	NT	< 0.36 U	NT	< 0.2 U	NT	< 0.84 U	NT	0.21 R	NT
3,3'-Dichlorobenzidine	91-94-1		0.200 R	NT	< 11 U	NT	< 0.82 U	NT	< 1,000 U	< 0.99 U	NT	< 0.36 U	NT	< 0.2 U	NT	< 0.84 U	NT	0.21 R	NT
3,5,5-Trimethyl-2-cyclohexene-1-one (Isophorone)	78-59-1		0.200 R	NT	< 11 U	< 0.49	< 0.82 U	< 0.0082	< 1,000 U	< 0.99 U	< 0.008	< 0.36 U	< 0.0081	< 0.2 U	< 0.0086	< 0.84 U	< 0.0084	0.21 R	< 0.0091
3-Nitroaniline	99-09-2		0.390 R	NT	< 21 U	NT	< 1.6 U	NT	< 2,000 U	< 1.9 U	NT	< 0.71 U	NT	< 0.38 U	NT	< 1.6 U	NT	0.41 R	NT
4,6-Dinitro-2-methylphenol	534-52-1		0.390 R	NT	< 21 U	NT	< 1.6 U	NT	< 2,000 U	< 1.9 U	NT	< 0.71 U	NT	< 0.38 U	NT	< 1.6 U	NT	0.41 R	NT
4-Bromophenyl phenyl ether	101-55-3		0.200 R	NT	< 11 U	NT	< 0.82 U	NT	< 1,000 U	< 0.99 U	NT	< 0.36 U	NT	< 0.2 U	NT	< 0.84 U	NT	0.21 R	NT
4-Chloro-3-methylphenol	59-50-7		0.200 R	NT	< 11 U	NT	< 0.82 U	NT	< 1,000 U	< 0.99 U	NT	< 0.36 U	NT	< 0.2 U	NT	< 0.84 U	NT	0.21 R	NT
4-Chlorophenyl phenyl ether	7005-72-3		0.200 R	NT	< 11 U	NT	< 0.82 U	NT	< 1,000 U	< 0.99 U	NT	< 0.36 U	NT	< 0.2 U	NT	< 0.84 U	NT	0.21 R	NT
4-Methylphenol	106-44-5		0.200 R	NT	< 11 U	NT	< 0.82 U	NT	< 1,000 U	< 0.99 U	NT	< 0.36 U	NT	< 0.2 U	NT	< 0.84 U	NT	0.21 R	NT
4-Nitrophenol	100-02-7		0.390 R	NT	< 21 U	NT	< 1.6 U	NT	< 2,000 U	< 1.9 U	NT	< 0.71 U	NT	< 0.38 U	NT	< 1.6 U	NT	0.41 R	NT
Acenaphthene	83-32-9		0.200 R	< 0.011	< 11 U	< 0.63	< 0.82 U	**0.0726 J**	< 1,000 U	**0.08 J**	**0.0719 J**	< 0.36 U	**0.405**	< 0.2 U	< 0.011	**0.076 J**	**0.0649 J**	0.21 R	< 0.01
Acenaphthylene	208-96-8		0.046 R	NT	< 11 U	< 0.28	< 0.82 U	**0.104 J**	< 1,000 U	**0.15 J**	**0.185 J**	< 0.36 U	**1.19**	**0.022 J**	< 0.0049	**0.65 J**	**0.401**	0.21 R	< 0.0052
Acetophenone	98-86-2		0.200 R	NT	< 11 U	NT	< 0.82 U	NT	< 1,000 U	< 0.99 U	NT	< 0.36 U	NT	**0.39**	NT	< 0.84 U	NT	0.21 R	NT
Anthracene	120-12-7		0.011 R	< 0.0072	< 11 U	< 0.42	< 0.82 U	**0.333**	< 1,000 U	**0.24 J**	**0.3**	< 0.36 U	**2.63**	**0.01 J**	< 0.0074	**0.56 J**	**0.603**	0.21 R	< 0.0078
Atrazine	1912-24-9		0.200 R	NT	**11 UJ**	NT	< 0.82 U	NT	< 1,000 U	< 0.99 U	NT	< 0.36 U	NT	< 0.2 U	NT	< 0.84 U	NT	0.21 R	NT
Benzaldehyde	100-52-7		0.200 R	NT	< 11 U	NT	< 0.82 U	NT	< 1,000 U	< 0.99 U	NT	< 0.36 U	NT	< 0.2 U	NT	< 0.84 U	NT	0.21 R	NT
Benzidine	92-87-5		0.035 R	NT	**2.6 J**	< 0.95	NT	< 0.016	**120 J**	NT	< 0.016	NT	< 0.016	NT	< 0.017	NT	< 0.016	NT	< 0.018
Benzo(a)anthracene	56-55-3		0.036 R	< 0.0077	**0.560 J**	**7.03 J**	**0.11 J**	**0.97**	**98 J**	**0.96 J**	**0.838**	**0.09 J**	**10.2**	**0.009 J**	< 0.0079	**2.1**	**1.29**	0.21 R	< 0.0084
Benzo(a)pyrene	50-32-8		0.061 R	<0.0063	< 11 U	< 0.37	**0.08 J**	**0.848**	**110 J**	**0.84 J**	**0.873**	**0.088 J**	**9.22**	< 0.2 U	< 0.0064	**2.4**	**1.38**	0.21 R	< 0.0068
Benzo(b)fluoranthene	205-99-2		0.027 R	< 0.0067	< 11 U	< 0.39	**0.14 J**	**0.782**	**73 J**	**1.5**	**0.929**	**0.12 J**	**12.1**	< 0.2 U	< 0.0068	**4**	**1.93**	0.21 R	< 0.0072
Benzo(g,h,i)perylene	191-24-2		0.029 R	< 0.0083	< 11 U	< 0.49	**0.062 J**	**0.512**	**50 J**	**0.53 J**	**0.511**	**0.078 J**	**7.01**	< 0.2 U	< 0.0086	**1.5**	**1.2**	0.21 R	< 0.0091
Benzo(k)fluoranthene	207-08-9		0.200 R	< 0.0083	< 11 U	< 0.48	< 0.82 U	**0.621**	< 1,000 U	< 0.99 U	**0.737**	**0.056 J**	**4.24**	< 0.2 U	< 0.0085	**1.1**	**1.29**	0.017 R	< 0.009
Benzyl butyl phthalate (Butyl benzyl phthalate)	85-68-7		0.200 R	NT	< 11 U	NT	< 0.82 U	< 0.0093	< 1,000 U	< 0.99 U	**1.48**	< 0.36 U	< 0.0092	< 0.2 U	< 0.0097	**0.23 J**	< 0.0096	0.21 R	< 0.01
Biphenyl	92-52-4		0.200 R	NT	< 11 U	NT	< 0.82 U	NT	< 1,000 U	< 0.99 U	NT	< 0.36 U	NT	< 0.2 U	NT	< 0.84 U	NT	0.21 R	NT
bis(2-Chloroethoxy)methane	111-91-1		0.200 R	NT	< 11 U	< 0.72	< 0.82 U	NT	< 1,000 U	< 0.99 U	NT	< 0.36 U	NT	< 0.2 U	NT	< 0.84 U	NT	0.21 R	NT
bis(2-Ethylhexyl)phthalate	117-81-7		0.097 R	NT	**11 UJ**	< 0.58	< 0.82 U	**0.126 J**	< 1,000 U	< 0.99 U	**0.808**	< 0.36 U	< 0.0097	< 0.2 U	< 0.01	**1.1**	**0.295**	0.077 R	< 0.011
Caprolactam	105-60-2		0.200 R	NT	< 11 U	< 0.55	**0.82 UJ**	NT	**1,000 UJ**	< 0.99 U	NT	**0.36 UJ**	NT	**2.9 J**	NT	< 0.84 U	NT	0.21 R	NT
Carbazole	86-74-8		0.200 R	NT	< 11 U	NT	< 0.82 U	NT	< 1,000 U	**0.095 J**	NT	< 0.36 U	NT	< 0.2 U	NT	**0.18 J**	NT	0.21 R	NT
Dibenz(a,h)anthracene	53-70-3		0.200 R	< 0.0049	< 11 U	< 0.28	< 0.82 U	**0.213 J**	< 1,000 U	**0.16 J**	**0.212 J**	**0.019 J**	**2.58**	< 0.2 U	< 0.005	**0.51 J**	**0.444**	0.21 R	< 0.0053
Dibenzofuran	132-64-9		0.200 R	NT	< 11 U	NT	< 0.82 U	NT	< 1,000 U	**0.99 UJ**	NT	< 0.36 U	NT	< 0.2 U	NT	**0.17 J**	NT	0.21 R	NT
Diethyl phthalate	84-66-2		0.200 R	NT	< 11 U	NT	< 0.82 U	NT	< 1,000 U	**0.11 J**	NT	< 0.36 U	NT	< 0.2 U	NT	< 0.84 U	NT	0.21 R	NT
Dimethyl phthalate	131-11-3		0.200 R	NT	< 11 U	< 0.33	< 0.82 U	< 0.0056	< 1,000 U	< 0.99 U	< 0.0055	< 0.36 U	< 0.0056	< 0.2 U	< 0.0059	< 0.84 U	< 0.0058	0.21 R	< 0.0062
Di-n-butyl phthalate	84-74-2		0.200 R	NT	< 11 U	< 0.66	< 0.82 U	< 0.011	< 1,000 U	< 0.99 U	< 0.011	< 0.36 U	< 0.011	< 0.2 U	< 0.012	< 0.84 U	< 0.011	0.21 R	< 0.012
Di-n-octyl phthalate	117-84-0		0.200 R	NT	< 11 U	< 0.4	< 0.82 U	< 0.0066	< 1,000 U	< 990 U	< 0.0065	< 360 U	< 0.0066	< 200 U	< 0.007	< 840 U	< 0.0069	210 R	< 0.0074
Fluoranthene	206-44-0		0.072 R	< 0.0072	< 11 U	< 0.42	**0.16 J**	**1.85**	**200 J**	**1.7**	**1.43**	**0.097 J**	**21.3**	< 0.2 U	< 0.0074	**3.3**	**1.79**	0.21 R	< 0.0078
Fluorene	86-73-7		0.200 R	< 0.0064	< 11 U	< 0.37	< 0.82 U	**0.108 J**	< 1,000 U	< 0.99 U	**0.1 J**	< 0.36 U	**0.679**	< 0.2 U	< 0.0065	**0.087 J**	**0.0998 J**	0.21 R	< 0.0069
Hexachloro-1,3-Butadiene (Hexachlorobutadiene)	87-68-3		0.200 R	NT	< 11 U	NT	< 0.82 U	NT	< 1,000 U	< 0.99 U	NT	< 0.36 U	NT	< 0.2 U	NT	< 0.84 U	NT	0.21 R	NT
Hexachlorobenzene	118-74-1		0.200 R	NT	< 11 U	NT	< 0.82 U	NT	< 1,000 U	< 0.99 U	NT	< 0.36 U	NT	< 0.2 U	NT	< 0.84 U	NT	0.21 R	NT
Hexachlorocyclopentadiene	77-47-4		0.200 R	NT	< 11 U	NT	< 0.82 U	NT	< 1,000 U	< 0.99 U	NT	< 0.36 U	NT	< 0.2 U	NT	< 0.84 U	NT	0.21 R	NT

Table 1

2008 Validated Sample Comparison (Soils)
Former Vacuum Oil Refinery
Rochester, New York

Chemical Name		Sample ID:	SB-018/4-6-062608	SB-018	SB-036/7.5-8(ROC)-062308	SB-036	SB-050/0-1(ROC)-062508	SB-050	SB-050/6-8-062508	SB-051/0-1(ROC)-070108	SB-051B	SB-052/0-1(ROC)-062608	SB-052	SB-052/6-8(ROC)-062608	SB-052	SB-053/0-1(ROC)-062608	SB-053	SB-070/6-7.5-062708	SB-070
		Depth:	4-6 ft bgs	4-8 ft bgs	7.5-8 ft bgs	7-8 ft bgs	0-1 ft bgs	0-1 ft bgs	6-8 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	0-1 ft bgs	6-8 ft bgs	6-8 ft bgs	0-1 ft bgs	0-1 ft bgs	6-7.5 ft bgs	6-7.5 ft bgs
Hexachloroethane	67-72-1		0.200 R	NT	< 11 U	NT	< 0.82 U	NT	< 1,000 U	< 0.99 U	NT	< 0.36 U	NT	< 0.2 U	NT	< 0.84 U	NT	0.21 R	NT
Indeno(1,2,3-cd)pyrene	193-39-5		0.020 R	< 0.01	< 11 U	< 0.6	**0.049 J**	**0.603**	**57 J**	**0.5 J**	**0.602**	**0.069 J**	**8.43**	< 0.2 U	< 0.011	**1.4**	**1.38**	0.21 R	< 0.011
Naphthalene	91-20-3		0.200 R	<0.0081	< 11 U	< 0.47	< 0.82 U	**0.0507 J**	< 1,000 U	< 0.99 U	**0.202 J**	< 0.36 U	**0.245 J**	**0.024 J**	< 0.0083	**0.27 J**	**0.558**	0.21 R	< 0.011
Nitrobenzene	98-95-3		0.200 R	NT	< 11 U	NT	< 0.82 U	NT	< 1,000 U	< 0.99 U	NT	< 0.36 U	NT	< 0.2 U	NT	< 0.84 U	NT	0.21 R	NT
N-Nitrosodi-n-propylamine (N-Nitroso-Di-n-propylamine)	621-64-7		0.200 R	NT	< 11 U	NT	< 0.82 U	NT	< 1,000 U	< 0.99 U	NT	< 0.36 U	NT	< 0.2 U	NT	< 0.84 U	NT	0.21 R	NT
N-Nitrosodiphenylamine	86-30-6		0.200 R	NT	< 11 U	NT	< 0.82 U	NT	< 1,000 U	< 0.99 U	NT	< 0.36 U	NT	**0.12 J**	NT	< 0.84 U	NT	0.21 R	NT
P-Chloroaniline (4-Chloraniline)	106-47-8		0.200 R	NT	< 11 U	NT	< 0.82 U	< 0.0076	< 1,000 U	< 0.99 U	< 0.0074	< 0.36 U	< 0.0075	< 0.2 U	< 0.008	< 0.84 U	< 0.0079	0.21 R	< 0.0084
Pentachlorophenol	87-86-5		0.390 R	NT	< 21 U	< 1.9	< 1.6 U	< 0.032	< 2,000 U	< 1.9 U	< 0.032	< 0.71 U	< 0.032	< 0.38 U	< 0.034	< 1.6 U	< 0.033	0.41 R	< 0.036
Phenanthrene	85-01-8		0.032 R	< 0.0084	**0.930 J**	**5.56 J**	**0.11 J**	**1.27**	**130 J**	**1**	**0.947**	**0.035 J**	**7.06**	**0.130 J**	**0.0519 J**	**1.2**	**1.22**	0.21 R	< 0.0091
Phenol	108-95-2		0.200 R	NT	< 11 U	< 0.83	< 0.82 U	< 0.014	< 1,000 U	< 0.99 U	< 0.014	< 0.36 U	< 0.014	< 0.2 U	**0.101 J**	< 0.84 U	< 0.014	0.21 R	< 0.015
P-Nitroaniline (4-Nitroaniline)	100-01-6		0.390 R	NT	< 21 U	NT	< 1.6 U	NT	< 2,000 U	< 1.9 U	NT	< 0.71 U	NT	< 0.38 U	NT	< 1.6 U	NT	0.41 R	NT
Pyrene	129-00-0		0.048 R	< 0.011	< 11 U	< 0.63	**0.17 J**	**1.7**	**210 J**	**1.5**	**1.31**	**0.12 J**	**18.9**	< 0.2 U	< 0.011	**2.9**	**1.97**	0.21 R	< 0.012
SVOC TICs	NA		0 R	NT	**675 J**	NT	**8.7 BJN**	NT	**13,000 BJN**	**0**	NT	**5.6 BJN**	NT	**40.8 BJN**	NT	**1.5 JN**	NT	**1.15 R**	NT
Total SVOCs	NA		**7.118 R**	NT	**1,052.29**	NT	**35.451**	---	**44,807**	**37.864**	---	**17.005**	---	**50.665**	---	**49.623**	---	**8.029 R**	---

Notes:
OBG and LaBella samples were analyzed by TestAmerica and were validated by Environmental Data Validation, Inc. (EDV).
Roux samples were analyzed by Accutest and were not validated.
Compounds are listed in parts per million (ppm) (milligrams per kilogram [mg/kg]).
Bold values are detections.
NA = No criteria available.
NT = Not Tested.
R = EDV Qualifier - Data are not usable due to quality control issues.
U = Test America Qualifier - Analyte not detected.
B = Analyte found in blank and sample (ROUX 2008 Report & LaBella 2008 Report)
J (LaBella Report) = Data are to be used cautiously as they are estimated data with some quality control issues - LaBella 2008 Report
J (ROUX Report) = Indicated values detected at or above the laboratory method detention limit (MDL) and below the laboratory reporting limit - ROUX 2008 Report
UJ = EDV Qualifier - Data are to be used cautiously as they are estimated data with some quality control issues - LaBella 2008 Report
N = Test America Qualifier - Estimated value and indicates presumptive evidence of a compound.
TICs = Tentatively Identified Compounds
ft bgs = feet below ground surface

Table 2

2008 Validated Sample Comparison (Groundwater)
Former Vacuum Oil Refinery
Rochester, New York

Chemical Name		Sample ID:	MW-014-070908	SB-014	MW-023-071008	SB-023	MW-069-070808	MW-069
	Cas No.	Sampler:	LaBella	Roux	LaBella	Roux	LaBella	Roux
Metals								
Antimony	7440-36-0		< 20 U	**1.3 J**	**20 UJ**	<1.3	< 20 U	<3.3
Arsenic	7440-38-2		**15.7**	**23.7**	**10 UJ**	**17**	< 10 U	**4.4 J**
Beryllium	7440-41-7		< 2 U	<0.18	**2 UJ**	<0.18	< 2 U	<0.40
Cadmium	7440-43-9		**1**	<0.25	**1 UJ**	<0.25	< 1 U	**0.32 J**
Chromium Total	7440-47-3		**6.7**	<0.72	**4 UJ**	<0.72	< 4 U	**0.85 J**
Copper	7440-50-8		< 10 U	<2.7	**10 UJ**	<2.7	< 10 U	<1.6
Lead	7439-92-1		**12.2**	<1.8	**5 UJ**	<1.8	< 5 U	<1.8
Mercury	7439-97-6		< 0.2 U	<0.033	**0.2 UJ**	<0.033	< 0.2 U	<0.033
Nickel	7440-02-0		**20.7**	**29.5 J**	**10 UJ**	**1.7 J**	< 10 U	**2.3 J**
Selenium	7782-49-2		< 15 U	**6.3 J**	**15 UJ**	<2.0	< 15 U	<4.7
Silver	7440-22-4		< 3 U	<0.57	**3 UJ**	<0.57	< 3 U	**0.99 J**
Thallium	7440-28-0		< 20 U	**4.5 J**	**20 UJ**	**2.6 J**	< 20 U	<4.9
Zinc	7440-66-6		**143**	**194**	**10 UJ**	**19.3 J**	< 10 U	**9.7 J**
Pesticides								
Methoxychlor [1,1,1-Trichloro-2,2-Bis (p-methoxphenyl)-ethane]	72-43-5		**0.47 UJ**		**0.047 UJ**		**0.048 UJ**	
4,4'-DDD	72-54-8		< 0.47 U	<0.0065	**0.047 UJ**	<0.0066	< 0.048 U	<0.014
4,4'-DDE	72-55-9		< 0.47 U	NT	**0.02 UJ**	NT	< 0.048 U	NT
4,4'-DDT	50-29-3		< 0.47 U	NT	**0.051**	NT	< 0.048 U	NT
Aldrin	309-00-2		**0.14 J**	NT	**0.047 UJ**	NT	< 0.048 U	NT
alpha-BHC	319-84-6		**0.4 J**	NT	**0.019 UJ**	NT	< 0.048 U	NT
beta-BHC	319-85-7		< 0.47 U	NT	**0.047 UJ**	NT	< 0.048 U	NT
Toxaphene [Camphechlor]	8001-35-2		**0.27 J**	NT	**0.047 UJ**	NT	**0.048 UJ**	NT
Chlordane	57-74-9		< 4.7 U	NT	**0.47 UJ**	NT	< 0.48 U	NT
delta-BHC	319-86-8		**0.19 J**	NT	**0.018 UJ**	NT	**0.017 J**	NT
Dieldrin	60-57-1		**0.2 J**	NT	**0.047 UJ**	NT	< 0.048 U	NT
Endosulfan I	959-98-8		< 0.47 U	NT	**0.047 UJ**	NT	< 0.048 U	NT
Endosulfan II	33213-65-9		< 0.47 U	<0.0095	**0.047 UJ**	<0.0097	< 0.048 U	<0.014
Endosulfan sulfate	1031-07-8		< 0.47 U	NT	**0.047 UJ**	NT	< 0.048 U	NT
Endrin	72-20-8		< 0.47 U	<0.0096	**0.047 UJ**	<0.0098	< 0.048 U	<0.011
Endrin Aldehyde	7421-93-4		< 0.47 U	NT	**0.047 UJ**	NT	< 0.048 U	NT
Endrin Ketone	53494-70-5		< 0.47 U	NT	**0.047 UJ**	NT	< 0.048 U	NT
gamma-BHC (Lindane)	58-89-9		< 0.47 U	NT	**0.014 UJ**	NT	< 0.048 U	NT
gamma-Chlordane	5103-74-2		**0.14**	NT	**0.012**	NT	< 0.048 U	NT
Heptachlor	76-44-8		< 0.47 U	NT	**0.047 UJ**	NT	< 0.048 U	NT
Heptachlor epoxide	1024-57-3		< 0.47 U	<0.0063	**0.047 UJ**	<0.0065	< 0.048 U	<0.0080

Table 2

2008 Validated Sample Comparison (Groundwater)
Former Vacuum Oil Refinery
Rochester, New York

Chemical Name		Sample ID:	MW-014-070908	SB-014	MW-023-071008	SB-023	MW-069-070808	MW-069
Polychlorinated Biphenyls (PCBs)								
Aroclor-1016 (PCB-1016)	12674-11-2		< 0.47 U	NT	**0.47 UJ**	NT	< 0.48 U	NT
Aroclor-1221 (PCB-1221)	11104-28-2		< 0.47 U	NT	**0.47 UJ**	NT	< 0.48 U	NT
Aroclor-1232 (PCB-1232)	11141-16-5		< 0.47 U	NT	**0.47 UJ**	NT	< 0.48 U	NT
Aroclor-1242 (PCB-1242)	53469-21-9		< 0.47 U	NT	**0.47 UJ**	NT	< 0.48 U	NT
Aroclor-1248 (PCB-1248)	12672-29-6		**1.6**	NT	**0.47 UJ**	NT	< 0.48 U	NT
Aroclor-1254 (PCB-1254)	11097-69-1		< 0.47 U	NT	**0.47 UJ**	NT	< 0.48 U	NT
Aroclor-1260 (PCB-1260)	11096-82-5		< 0.47 U	<0.034	**0.47 UJ**	<0.034	< 0.48 U	<0.032
Volatile Organic Compounds (VOCs)								
1,1,1-Trichloroethane	71-55-6		< 1 U	<0.18	**1 UJ**	<0.18	< 1 U	<0.18
1,1,2,2-Tetrachloroethane	79-34-5		< 1 U	NT	**1 UJ**	NT	< 1 U	NT
1,1,2-Trichloroethane	79-00-5		< 1 U	NT	**1 UJ**	NT	< 1 U	NT
1,1-Dichloroethane	75-34-3		< 1 U	<0.21	**1 UJ**	<0.21	< 1 U	<0.21
1,1-Dichloroethylene (1,1-Dichloroethene)	75-35-4		< 1 U	<0.26	**1 UJ**	<0.26	< 1 U	<0.26
1,2,4-Trichlorobenzene	120-82-1		< 1 U	NT	**1 UJ**	NT	< 1 U	NT
1,2,4-Trimethylbenzene	95-63-6		NT	**17.5**	NT	**192**	NT	<0.25
1,2-Dibromo-3-Chloropropane (DBCP)	96-12-8		< 1 U	NT	**1 UJ**	NT	< 1 U	NT
1,2-Dibromoethane (Ethylene Dibromide)	106-93-4		< 1 U	NT	**1 UJ**	NT	< 1 U	NT
1,2-Dichlorobenzene	95-50-1		< 1 U	NT	**1 UJ**	NT	< 1 U	NT
1,2-Dichloroethane	107-06-2		< 1 U	<0.11	**1 UJ**	<0.11	< 1 U	<0.11
1,2-Dichloropropane	78-87-5		< 1 U	NT	**1 UJ**	NT	< 1 U	NT
1,3,5-Trimethylbenzene	108-67-8		NT	**20.9**	NT	**118**	NT	<0.20
1,4-Dichlorobenzene	106-46-7		< 1 U	NT	**1 UJ**	NT	< 1 U	NT
2-Butanone (Methyl Ethyl Ketone)	78-93-3		**220 J**	**1180**	**5 UJ**	<0.92	< 5 U	<0.92
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	108-10-1		**34 J**	**176**	**5 UJ**	<0.20	< 5 U	<0.20
Acetone	67-64-1		**180 J**	**785**	**5 UJ**	**3.8 J**	< 5 U	<1.9
Benzene	71-43-2		**9.7 J**	**42.9**	**1 UJ**	**0.45 J**	< 1 U	<0.15
Bromodichloromethane	75-27-4		< 1 U	NT	**1 UJ**	NT	< 1 U	NT
Bromomethane	74-83-9		< 1 U	NT	**1 UJ**	NT	< 1 U	NT
n-Butylbenzene	104-51-8		NT	<0.27	NT	**3.1 J**	NT	<0.27
sec-Butylbenzene	135-98-8		NT	**0.87 J**	NT	<0.17	NT	<0.17
tert-Butylbenzene	98-06-6		NT	<0.54	NT	**1.0 J**	NT	<0.54
Carbon disulfide	75-15-0		**2.6 J**	**9.7**	**1 UJ**	<0.26	< 1 U	<0.26
Carbon Tetrachloride	56-23-5		< 1 U	NT	**1 UJ**	NT	< 1 U	NT
CFC-11 (Freon 11, Trichlorofluoromethane)	75-69-4		< 1 U	NT	**1 UJ**	NT	< 1 U	NT
CFC-12 (Freon 12, Dichlorodifluoromethane)	75-71-8		< 1 U	NT	**1 UJ**	NT	< 1 U	NT
Chlorinated Fluorocarbon (Freon 113, 1,1,2-Trichloro-1,2,2-trifluoroethane)	76-13-1		< 1 U	NT	**1 UJ**	NT	< 1 U	NT
Chlorobenzene	108-90-7		< 1 U	<0.17	**1 UJ**	<0.17	< 1 U	<0.17
Chlorodibromomethane (Dibromochloromethane)	124-48-1		< 1 U	NT	**1 UJ**	NT	< 1 U	NT
Chloroethane	75-00-3		< 1 U	<2.0	**1 UJ**	<2.0	< 1 U	<2.0
Chloroform	67-66-3		< 1 U	NT	**1 UJ**	NT	< 1 U	NT

Table 2

2008 Validated Sample Comparison (Groundwater)
Former Vacuum Oil Refinery
Rochester, New York

Chemical Name		Sample ID:	MW-014-070908	SB-014	MW-023-071008	SB-023	MW-069-070808	MW-069
Chloromethane	74-87-3		< 1 U	<0.19	**1 UJ**	<0.19	< 1 U	<0.19
cis-1,2-Dichloroethene	156-59-2		< 1 U	<0.16	**1 UJ**	<0.16	< 1 U	<0.16
cis-1,3-Dichloropropene	10061-01-5		**1 UJ**	NT	**1 UJ**	NT	**1 UJ**	NT
Cyclohexane	110-82-7		**3.5 J**	NT	**52 J**	NT	< 1 U	NT
Dichloromethane (Methylene chloride)	75-09-2		< 1 U	NT	**1 UJ**	NT	< 1 U	NT
Ethylbenzene	100-41-4		**11 J**	**23.7**	**1 UJ**	<0.15	< 1 U	<0.15
Isopropylbenzene	98-82-8		**0.93 J**	**2.4 J**	**8.5 J**	**3.3 J**	< 1 U	<0.19
p-Isopropyltoluene	99-87-6		NT	<0.24	NT	<0.24	NT	<0.24
M-Dichlorobenzene (1.3-Dichlorobenzene)	541-73-1		< 1 U	NT	**1 UJ**	NT	< 1 U	NT
Methyl acetate	79-20-9		**1 UJ**	NT	**1 UJ**	NT	**1 UJ**	NT
Methyl n-butyl ketone (2-Hexanone)	591-78-6		**150 J**	**769**	**5 UJ**	<0.51	< 5 U	<0.51
Methyl Tert Butyl Ether (MTBE)	1634-04-4		< 1 U	<0.20	**1 UJ**	<0.20	< 1 U	<0.20
Methylbenzene (Toluene)	108-88-3		**56 J**	NT	**9.2 J**	NT	**0.71 J**	NT
Methylcyclohexane	108-87-2		**6.8 J**	NT	**49 J**	NT	< 1 U	NT
Naphthalene	91-20-3		NT	**158**	NT	**3.0 J**	NT	<0.24
n-Propylbenzene	103-65-1		NT	**2.8 J**	NT	<0.24	NT	<0.24
Styrene (Monomer)	100-42-5		< 1 U	**11.6**	**1 UJ**	<0.15	< 1 U	<0.15
Tetrachloroethene	127-18-4		< 1 U	NT	**1 UJ**	NT	< 1 U	NT
Toluene	108-88-3		NT	**163**	NT	**7.8**	NT	**1.2**
trans-1,2-Dichloroethene	156-60-5		< 1 U	<1.0	**1 UJ**	<1.0	< 1 U	<1.0
trans-1,3-Dichloropropene	10061-02-6		< 1 U	NT	**1 UJ**	NT	< 1 U	NT
Tribromomethane (Bromoform)	75-25-2		< 1 U	NT	**1 UJ**	NT	< 1 U	NT
Trichloroethylene (Trichloroethene)	79-01-6		< 1 U	<0.26	**1 UJ**	<0.26	< 1 U	<0.26
Vinyl chloride	75-01-4		< 1 U	<0.22	**1 UJ**	<0.22	< 1 U	<0.22
Xylenes (Total)	1330-20-7		**38 J**	**77.1**	**1,800 J**	**518**	< 3 U	<0.14
Semi-Volatile Organic Compounds (SVOCs)								
1,2-Benzphenanthracene (Chrysene)	218-01-9		**0.6**	<0.32	**0.7 UJ**	<0.34	**0.5**	<0.35
2,2'-oxybis(1-Chloropropane) [bis(2-chloro-1-methyletheyl) ether]	108-60-1		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
2,4,5-Trichlorophenol	95-95-4		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
2,4,6-Trichlorophenol	88-06-2		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
2,4-Dichlorophenol	120-83-2		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
2,4-Dimethylphenol	105-67-9		< 5 U	<0.83	**7 UJ**	<0.89	< 5 U	<0.92
2,4-Dinitrophenol	51-28-5		< 10 U	NT	**10 UJ**	NT	< 10 U	NT
2,4-Dinitrotoluene	121-14-2		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
2,6-Dinitrotoluene	606-20-2		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
2-Chloronaphthalene	91-58-7		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
2-Chlorophenol	95-57-8		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
2-Methylnaphthalene	91-57-6		**2 J**	NT	**7 UJ**	NT	< 5 U	NT
2-Methylphenol	95-48-7		< 5 U	NT	**5 UJ**	NT	< 5 U	NT

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2008 Validated Sample Comparison (Groundwater)
Former Vacuum Oil Refinery
Rochester, New York

Chemical Name		Sample ID:	MW-014-070908	SB-014	MW-023-071008	SB-023	MW-069-070808	MW-069
2-Nitroaniline	88-74-4		< 10 U	NT	**10 UJ**	NT	< 10 U	NT
2-Nitrophenol	88-75-5		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
3,3'-Dichlorobenzidine	91-94-1		**5 UJ**	NT	**5 UJ**	NT	**5 UJ**	NT
3,5,5-Trimethyl-2-cyclohexene-1-one (Isophorone)	78-59-1		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
3-Nitroaniline	99-09-2		< 10 U	NT	**10 UJ**	NT	< 10 U	NT
4,6-Dinitro-2-methylphenol	534-52-1		< 10 U	NT	**10 UJ**	NT	< 10 U	NT
4-Bromophenyl phenyl ether	101-55-3		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
4-Chloro-3-methylphenol	59-50-7		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
4-Chlorophenyl phenyl ether	7005-72-3		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
4-Methylphenol	106-44-5		< 5 U	NT	**2 UJ**	NT	< 5 U	NT
4-Nitrophenol	100-02-7		< 10 U	NT	**10 UJ**	NT	< 10 U	NT
Acenaphthene	83-32-9		< 5 U	<0.23	**5 UJ**	<0.24	< 5 U	<0.25
Acenaphthylene	208-96-8		< 5 U	<0.19	**5 UJ**	<0.21	< 5 U	<0.21
Acetophenone	98-86-2		**5**	NT	**5 UJ**	NT	< 5 U	NT
Anthracene	120-12-7		< 5 U	<0.16	**5 UJ**	<0.17	< 5 U	<0.18
Atrazine	1912-24-9		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
Benzaldehyde	100-52-7		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
Benzo(a)anthracene	56-55-3		< 5 U	<0.28	**5 UJ**	<0.30	< 5 U	<0.31
Benzo(a)pyrene	50-32-8		< 5 U	<0.30	**5 UJ**	<0.32	< 5 U	<0.33
Benzo(b)fluoranthene	205-99-2		< 5 U	<0.34	**5 UJ**	<0.36	< 5 U	<0.38
Benzo(g,h,i)perylene	191-24-2		**0.2 J**	<0.80	**5 UJ**	<0.86	< 5 U	<0.89
Benzo(k)fluoranthene	207-08-9		< 5 U	<0.45	**5 UJ**	<0.48	< 5 U	<0.50
Benzyl butyl phthalate (Butyl benzyl phthalate)	85-68-7		< 5 U	NT	**5 UJ**	NT	**4 BJ**	NT
Biphenyl	92-52-4		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
bis(2-Chloroethoxy)methane	111-91-1		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
bis(2-Chloroethyl)ether	111-44-4		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
bis(2-Ethylhexyl)phthalate	117-81-7		**8**	<2.0	**11 UJ**	<2.2	**6**	<2.2
Caprolactam	105-60-2		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
Carbazole	86-74-8		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
Dibenz(a,h)anthracene	53-70-3		< 5 U	<0.67	**5 UJ**	<0.72	< 5 U	<0.75
Dibenzofuran	132-64-9		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
Diethyl phthalate	84-66-2		< 5 U	<0.20	**5 UJ**	<0.22	< 5 U	<0.23
Dimethyl phthalate	131-11-3		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
Di-n-butyl phthalate	84-74-2		< 5 U	<0.17	**5 UJ**	<0.18	**5**	<0.19
Di-n-octyl phthalate	117-84-0		**8**	NT	**7 UJ**	NT	**7**	NT
Fluoranthene	206-44-0		< 5 U	<0.19	**5 UJ**	<0.20	< 5 U	<0.21
Fluorene	86-73-7		< 5 U	<0.21	**0.7 UJ**	<0.22	< 5 U	<0.23
Hexachloro-1,3-Butadiene (Hexachlorobutadiene)	87-68-3		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
Hexachlorobenzene	118-74-1		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
Hexachlorocyclopentadiene	77-47-4		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
Hexachloroethane	67-72-1		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
Indeno(1,2,3-cd)pyrene	193-39-5		< 5 U	<0.44	**5 UJ**	<0.48	< 5 U	<0.49
Naphthalene	91-20-3		**42**	**50.3**	**5 UJ**	**1.7 J**	< 5 U	<0.39

Table 2

2008 Validated Sample Comparison (Groundwater)
Former Vacuum Oil Refinery
Rochester, New York

Chemical Name		Sample ID:	MW-014-070908	SB-014	MW-023-071008	SB-023	MW-069-070808	MW-069
Nitrobenzene	98-95-3		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
N-Nitrosodi-n-propylamine (N-Nitroso-Di-n-propylamine)	621-64-7		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
N-Nitrosodiphenylamine	86-30-6		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
P-Chloroaniline (4-Chloraniline)	106-47-8		< 5 U	NT	**5 UJ**	NT	< 5 U	NT
Pentachlorophenol	87-86-5		< 10 U	NT	**10 UJ**	NT	< 10 U	NT
Phenanthrene	85-01-8		**0.6 J**	<0.92	**1 UJ**	<0.98	< 5 U	<1.0
Phenol	108-95-2		< 5 U	<0.31	**5 UJ**	<0.33	< 5 U	<0.34
P-Nitroaniline (4-Nitroaniline)	100-01-6		< 10 U	NT	**10 UJ**	NT	< 10 U	NT
Pyrene	129-00-0		< 5 U	<0.34	**0.2 UJ**	<0.37	< 5 U	<0.38

Notes:
OBG and LaBella samples were analyzed by TestAmerica and were validated by Environmental Data Validation, Inc. (EDV).
Roux samples were analyzed by Accutest and were not validated
Compounds are listed in **micrograms per liter (µg/L).**
Bold values are detections.
NA = No criteria available.
NT = Not Tested.
R = EDV Qualifier - Data are not usable due to quality control issues.
U = Test America Qualifier - Analyte not detected.
B = Test America Qualifier - Analyte found in blank and sample.
J (LaBella Report) = Test America and Environmental Data Validation Qualifier - Data are to be used cautiously as they are estimated data with some quality control
J (ROUX Repor) = Indicated values detected at or above the laboratory method detention limit (MDL) and below the laboratory reporting limit - ROUX 2008 Report
UJ = Environmental Data Validation Qualifier - Data are to be used cautiously as they are estimated data with some quality
N = Test America Qualifier - Estimated value and indicates presumptive evidence of a compound.

Table 5

Summary of Proposed Analytical Samples/Designations
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Matrix	Sample Designation	Notes	Justification for Sample Location*	Laboratory Analysis					
					8260 VOCs + 10 TICs	8270 SVOCs + 20 TICs	TAL Metals and Cyanide 6010, 7470, 7471, 9012	PCBs 8082	Pesticides 8081	TO-15
Hollow Stem Auger	Subsurface Soil	SB-100-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X	X		
		SB-101-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X	X	X	
		SB-102-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 5, 7, 8, 9, 14, 15, 16, 17, 18 19, 20, and 21	X					
		SB-103-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X	X	X	
		SB-104-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X			
		SB-105-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, and 21	X	X	X	X	X	
		SB-106-depth-date	Objective: to investigate subsurface conditions	C; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X	X		
		SB-107-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X	X		
		SB-108-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X	X		
		SB-109-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X			
		SB-110-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 5, 7, 8, 9, 14, 15, 16, 17, 18 19, 20, and 21	X					
		SB-111-depth-date	Objective: to investigate subsurface conditions	DG; P; RECs 1, 2, 3, 5, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, and 21		X	X	X	X	
		SB-112-depth-date	Objective: to investigate subsurface conditions	DG: P; RECs 1, 2, 3, 5, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X	X	X	
		SB-113-depth-date	Objective: to investigate subsurface conditions	C; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X	X	X	
		SB-114-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X	X		
		SB-115-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X			
		SB-116-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X	X	X	
		SB-117-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X	X		
		SB-118-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X		X		
		SB-119-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X	X		
		SB-120-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X		X		
		SB-121-depth-date	Objective: to investigate subsurface conditions	DG; P; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X	X		
		SB-122-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X	X		
		SB-123-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26			X	X		
		SB-124-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X				
		SB-125-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X	X		

Table 5

Summary of Proposed Analytical Samples/Designations
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Matrix	Sample Designation	Notes	Justification for Sample Location*	Laboratory Analysis					
					8260 VOCs + 10 TICs	8270 SVOCs + 20 TICs	TAL Metals and Cyanide 6010, 7470, 7471, 9012	PCBs 8082	Pesticides 8081	TO-15
Hollow Stem Auger	Subsurface Soil	SB-126-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26			X	X		
		SB-127-depth-date	Objective: to investigate subsurface conditions	C; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X			
		SB-128-depth-date	Objective: to investigate subsurface conditions	C; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26				X		
		SB-129-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X	X	X	
		SB-130-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X		X		
		SB-131-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X	X		
		SB-132-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26			X	X		
		SB-133-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X	X		
		SB-134-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X	X	X	
		SB-135-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X	X	X	
		SB-136-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X	X	X	
		SB-137-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X	X		
		SB-138-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X	X	X	
		SB-139-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X		X		
		SB-140-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26						
		SB-141-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X	X		
		SB-142-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X	X		
		SB-143-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X	X		
		SB-144-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X	X	X	
		SB-145-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X	X		
		SB-146-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X		X	
		SB-147-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X	X		
		SB-148-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X	X	X	
		SB-149-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X			
		SB-150-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X	X		
		SB-151-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21			X			

Table 5

Summary of Proposed Analytical Samples/Designations
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Matrix	Sample Designation	Notes	Justification for Sample Location*	Laboratory Analysis					
					8260 VOCs + 10 TICs	8270 SVOCs + 20 TICs	TAL Metals and Cyanide 6010, 7470, 7471, 9012	PCBs 8082	Pesticides 8081	TO-15
Hollow Stem Auger	Subsurface Soil	SB-152-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X	X		
		SB-153-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21						
		SB-154-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X	X	X	
		SB-155-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26		X		X		
		SB-156-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X	X		
		SB-157-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X		X	
		SB-158-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X	X		
		SB-159-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X	X		
		SB-160-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X	X	X	
		SB-161-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 5, 7, 8, 9, 13, 15, 16, 17, 19, 20, and 21		X	X	X	X	
		SB-162-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 5, 7, 8, 9, 13, 15, 16, 17, 19, 20, and 21	X	X	X			
		SB-163-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 5, 7, 8, 9, 13, 15, 16, 17, 19, 20, and 21	X	X	X	X		
		SB-164-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X			
		SB-165-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X			
		SB-166-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 5, 7, 8, 9, 13, 15, 16, 17, 19, 20, and 21	X	X	X	X		
		SB-167-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X		X	X	
		SB-168-depth-date	Objective: to investigate subsurface conditions	DG; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X		X	
		SB-169-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X		X	
		SB-170-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 5, 7, 8, 9, 13, 15, 16, 17, 19, 20, and 21	X	X	X			
		SB-171-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X		X	X		
		SB-172-depth-date	Objective: to investigate subsurface conditions	GC; P; RECs 1, 2, 3, 5, 7, 8, 9, 15, 16, 17, 19, 20, and 21	X	X	X	X	X	
		SB-173-depth-date	Objective: to investigate subsurface conditions	GC; P; RECs 1, 2, 3, 5, 7, 8, 9, 15, 16, 17, 19, 20, and 21	X	X	X	X	X	
		SB-174-depth-date	Objective: to investigate subsurface conditions	GC; P; RECs 1, 2, 3, 5, 7, 8, 9, 15, 16, 17, 19, 20, and 21	X	X	X	X	X	
		SB-175-depth-date	Objective: to investigate subsurface conditions	GC; RECs 1, 2, 3, 5, 7, 8, 9, 13, 15, 16, 17, 19, 20, and 21		X	X			
		OVR-100-depth-date	Objective: to investigate subsurface conditions	GC	X	X	X	X		
		OVR-107-depth-date	Objective: to investigate subsurface conditions	GC	X	X	X	X		
		OVR-108-depth-date	Objective: to investigate subsurface conditions	GC	X	X	X	X		
		OVR-109-depth-date	Objective: to investigate subsurface conditions	GC	X	X	X	X		
		OVR-116-depth-date	Objective: to investigate subsurface conditions	GC	X	X	X	X		

Table 5

Summary of Proposed Analytical Samples/Designations
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Matrix	Sample Designation	Notes	Justification for Sample Location*	Laboratory Analysis					
					8260 VOCs + 10 TICs	8270 SVOCs + 20 TICs	TAL Metals and Cyanide 6010, 7470, 7471, 9012	PCBs 8082	Pesticides 8081	TO-15
Hollow Stem Auger	Subsurface Soil	OVR-117-depth-date	Objective: to investigate subsurface conditions	GC	X	X	X	X		
		OVR-118-depth-date	Objective: to investigate subsurface conditions	GC	X	X	X	X		
		SB-XXX-depth-date-MS	1st Matrix Spike	1st Matrix Spike	X	X	X	X	X	
		SB-XXX-depth-date-MSD	1st Matrix Spike Duplicate	1st Matrix Spike Duplicate	X	X	X	X	X	
		SB-XXX-depth-date-MS	2nd Matrix Spike	2nd Matrix Spike	X	X	X	X	X	
		SB-XXX-depth-date-MSD	2nd Matrix Spike Duplicate	2nd Matrix Spike Duplicate	X	X	X	X	X	
		SB-XXX-depth-date-MS	3rd Matrix Spike	3rd Matrix Spike	X	X	X	X		
		SB-XXX-depth-date-MSD	3rd Matrix Spike Duplicate	3rd Matrix Spike Duplicate	X	X	X	X		
		SB-XXX-depth-date-MS	4th Matrix Spike	4th Matrix Spike	X	X	X	X		
		SB-XXX-depth-date-MSD	4th Matrix Spike Duplicate	4th Matrix Spike Duplicate	X	X	X	X		
		DUP-001-date	1st blind laboratory duplicate	1st blind laboratory duplicate	X	X	X	X	X	
		DUP-002-date	2nd blind laboratory duplicate	2nd blind laboratory duplicate	X	X	X	X	X	
		DUP--003-date	3rd blind laboratory duplicate	3rd blind laboratory duplicate	X	X	X	X		
		DUP-004-date	4th blind laboratory duplicate	4th blind laboratory duplicate	X	X	X	X		
		FB-SB-XXX-date	1st field blank	1st field blank	X	X	X	X	X	
		FB-SB-XXX-date	2nd field blank	2nd field blank	X	X	X	X	X	
		FB-SB-XXX-date	3rd field blank	3rd field blank	X	X	X	X		
		FB-SB-XXX-date	4th field blank	4th field blank	X	X	X	X		
		TB-SB-date	1st trip blank	1st trip blank	X					
		TB-SB-date	2nd trip blank	2nd trip blank	X					
		TB-SB-date	3rd trip blank	3rd trip blank	X					
		TB-SB-date	4th trip blank	4th trip blank	X					
		TB-SB-date	5th trip blank	5th trip blank	X					
		TB-SB-date	6th trip blank	6th trip blank	X					
		TB-SB-date	7th trip blank	7th trip blank	X					
		TB-SB-date	8th trip blank	8th trip blank	X					
		TB-SB-date	9th trip blank	9th trip blank	X					
		TB-SB-date	10th trip blank	10th trip blank	X					
		TB-SB-date	11th trip blank	11th trip blank	X					
		TB-SB-date	12th trip blank	12th trip blank	X					
		TB-SB-date	13th trip blank	13th trip blank	X					
		TB-SB-date	14th trip blank	14th trip blank	X					
		TB-SB-date	15th trip blank	15th trip blank	X					
		TB-SB-date	16th trip blank	16th trip blank	X					
		TB-SB-date	17th trip blank	17th trip blank	X					
		TB-SB-date	18th trip blank	18th trip blank	X					

Table 5

Summary of Proposed Analytical Samples/Designations
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Matrix	Sample Designation	Notes	Justification for Sample Location*	Laboratory Analysis					
					8260 VOCs + 10 TICs	8270 SVOCs + 20 TICs	TAL Metals and Cyanide 6010, 7470, 7471, 9012	PCBs 8082	Pesticides 8081	TO-15
Disposable Scoop/Hand Auger	Surface Soil	SS-100-depth-date	Objective: to investigate surface soil conditions	GC; P; RECs 1, 2, 3, 5, 7, 8, 9, 14, 15, 16, 17, 18 19, 20, and 21	X					
		SS-101-depth-date	Objective: to investigate surface soil conditions	GC; P; RECs 1, 2, 3, 5, 7, 8, 9, 14, 15, 16, 17, 18 19, 20, and 21	X	X	X			
		SS-102-depth-date	Objective: to investigate surface soil conditions	DG; RECs 1, 2, 3, 5, 7, 8, 9, 14, 15, 16, 17, 18 19, 20, and 21	X					
		SS-103-depth-date	Objective: to investigate surface soil conditions	GC; P; RECs 1, 2, 3, 5, 7, 8, 9, 15, 16, 17, 19, 20, and 21	X	X	X			
		SS-104-depth-date	Objective: to investigate surface soil conditions	GC; P; RECs 1, 2, 3, 5, 7, 8, 9, 15, 16, 17, 19, 20, and 21	X					
		SS-105-depth-date	Objective: to investigate surface soil conditions	GC; P; RECs 1, 2, 3, 5, 7, 8, 9, 15, 16, 17, 19, 20, and 21	X	X	X			
		SS-106-depth-date	Objective: to investigate surface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X			
		SS-107-depth-date	Objective: to investigate surface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X					
		SS-108-depth-date	Objective: to investigate surface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X			
		SS-109-depth-date	Objective: to investigate surface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26		X	X			
		SS-110-depth-date	Objective: to investigate surface soil conditions from the 0-2 ft interval	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X	X		
		SS-111-depth-date	Objective: to investigate surface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X			
		SS-112-depth-date	Objective: to investigate surface soil conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X			
		SS-113-depth-date	Objective: to investigate surface soil conditions from the 0-2 ft interval	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X	X	X	
		SS-114-depth-date	Objective: to investigate surface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X		X	
		SS-115-depth-date	Objective: to investigate surface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X			
		SS-116-depth-date	Objective: to investigate surface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21		X	X			
		SS-117-depth-date	Objective: to investigate surface soil conditions from the 0-2 ft interval	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X			
		SS-118-depth-date	Objective: to investigate surface soil conditions from the 0-2 ft interval	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X	X		
		SS-119-depth-date	Objective: to investigate surface soil conditions from the 0-2 ft interval	GC; RECs 1, 2, 3, 5, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, and 21		X	X			
		SS-120-depth-date	Objective: to investigate surface soil conditions from the 0-2 ft interval	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X		X	
		SS-121-depth-date	Objective: to investigate surface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X			
		SS-122-depth-date	Objective: to investigate surface soil conditions from the 0-2 ft interval	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X			
		SS-123-depth-date	Objective: to investigate surface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X	X	X	
		SS-124-depth-date	Objective: to investigate surface soil conditions from the 0-2 ft interval	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X	X	X	

Table 5

Summary of Proposed Analytical Samples/Designations
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Matrix	Sample Designation	Notes	Justification for Sample Location*	Laboratory Analysis					
					8260 VOCs + 10 TICs	8270 SVOCs + 20 TICs	TAL Metals and Cyanide 6010, 7470, 7471, 9012	PCBs 8082	Pesticides 8081	TO-15
Disposable Scoop/Hand Auger	Surface Soil	SS-125-depth-date	Objective: to investigate surface soil conditions from the 0-2 ft interval	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X	X	X	
		SS-126-depth-date	Objective: to investigate surface soil conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26				X	X	
		SS-127-depth-date	Objective: to investigate surface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26				X	X	
		SS-128-depth-date	Objective: to investigate surface soil conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26				X		
		SS-129-depth-date	Objective: to investigate surface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X	X		
		SS-130-depth-date	Objective: to investigate surface soil conditions from the 0-2 ft interval	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26		X	X			
		SS-131-depth-date	Objective: to investigate surface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X	X	X	
		SS-132-depth-date	Objective: to investigate surface soil conditions from the 0-2 ft interval	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26		X	X	X	X	
		SS-133-depth-date	Objective: to investigate surface soil conditions from the 0-2 ft interval	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and26	X	X	X		X	
		SS-134-depth-date	Objective: to investigate surface soil conditions	GC; RECs 1, 2, 3, 5, 7, 8, 9, 13, 15, 16, 17, 19, 20, and 21		X	X			
		SS-135-depth-date	Objective: to investigate surface soil conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and26	X	X	X	X	X	
		SS-136-depth-date	Objective: to investigate surface soil conditions	GC; RECs 1, 2, 3, 5, 7, 8, 9, 13, 15, 16, 17, 19, 20, and 21	X	X	X		X	
		SS-137-depth-date	Objective: to investigate surface soil conditions from the 0-2 ft interval	GC; RECs 1, 2, 3, 5, 7, 8, 9, 13, 15, 16, 17, 19, 20, and 21		X	X			
		SS-138-depth-date	Objective: to investigate surface soil conditions from the 0-2 ft interval	GC; RECs 1, 2, 3, 5, 7, 8, 9, 13, 15, 16, 17, 19, 20, and 21		X	X	X	X	
		SS-139-depth-date	Objective: to investigate surface soil conditions	GC; RECs 1, 2, 3, 5, 7, 8, 9, 13, 15, 16, 17, 19, 20, and 21			X			
		SS-140-depth-date	Objective: to investigate surface soil conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and26	X	X	X		X	
		SS-141-depth-date	Objective: to investigate surface soil conditions from the 0-2 ft interval	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X			
		SS-142-depth-date	Objective: to investigate surface soil conditions from the 0-2 ft interval	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X			
		SS-143-depth-date	Objective: to investigate surface soil conditions	GC; RECs 1, 2, 3, 5, 7, 8, 9, 13, 15, 16, 17, 19, 20, and 21	X	X		X	X	
		SS-144-depth-date	Objective: to investigate surface soil conditions from the 0-2 ft interval	GC; RECs 1, 2, 3, 5, 7, 8, 9, 13, 15, 16, 17, 19, 20, and 21		X	X		X	
		SS-145-depth-date	Objective: to investigate surface soil conditions from the 0-2 ft interval	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X	X	X	
		SS-146-depth-date	Objective: to investigate surface soil conditions	GC; RECs 1, 2, 3, 5, 7, 8, 9, 13, 15, 16, 17, 19, 20, and 21	X	X				
		SS-147-depth-date	Objective: to investigate surface soil conditions from the 0-2 ft interval	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X		X	
		SS-148-depth-date	Objective: to investigate surface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X			
		SS-149-depth-date	Objective: to investigate surface soil conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26		X	X			

Table 5

Summary of Proposed Analytical Samples/Designations
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Matrix	Sample Designation	Notes	Justification for Sample Location*	Laboratory Analysis					
					8260 VOCs + 10 TICs	8270 SVOCs + 20 TICs	TAL Metals and Cyanide 6010, 7470, 7471, 9012	PCBs 8082	Pesticides 8081	TO-15
Disposable Scoop/Hand Auger	Surface Soil	SS-150-depth-date	Objective: to investigate surface soil conditions	GC; RECs 1, 2, 3, 5, 7, 8, 9, 13, 15, 16, 17, 19, 20, and 21	X	X	X			
		SS-151-depth-date	Objective: to investigate surface soil conditions from the 0-2 ft interval	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26		X	X			
		SS-152-depth-date	Objective: to investigate surface soil conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X		X	
		SS-153-depth-date	Objective: to investigate surface soil conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X			
		SS-XXX-depth-date-MS	1st Matrix Spike	1st Matrix Spike	X	X	X	X	X	
		SS-XXX-depth-date-MSD	1st Matrix Spike Duplicate	1st Matrix Spike Duplicate	X	X	X	X	X	
		SS-XXX-depth-date-MS	2nd Matrix Spike	2nd Matrix Spike	X	X	X			
		SS-XX-depth-date-MSD	2nd Matrix Spike Duplicate	2nd Matrix Spike Duplicate	X	X	X			
		SS-XXX-depth-date-MS	3rd Matrix Spike	3rd Matrix Spike		X	X			
		SS-XXX-depth-date-MSD	3rd Matrix Spike Duplicate	3rd Matrix Spike Duplicate		X	X			
		DUP-005-date	1st blind laboratory duplicate	1st blind laboratory duplicate	X	X	X	X	X	
		DUP-006-date	2nd blind laboratory duplicate	2nd blind laboratory duplicate	X	X	X			
		DUP-007-date	3rd blind laboratory duplicate	3rd blind laboratory duplicate				X		
		FB-SS-XXX-date	1st field blank	1st field blank	X	X	X	X	X	
		FB-SS-XXXdate	2nd field blank	2nd field blank	X	X	X			
		TB-SS-date	1st trip blank	1st trip blank	X					
		TB-SS-date	2nd trip blank	2nd trip blank	X					
Test Pits	Subsurface Soil	TP-100-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26			X	X	X	
		TP-101-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X				
		TP-102-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26		X	X			
		TP-103-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 5, 7, 8, 9, 15, 16, 17, 19, 20, and 21	X	X	X	X	X	
		TP-104-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 5, 7, 8, 9, 15, 16, 17, 19, 20, and 21	X	X	X	X		
		TP-105-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26		X	X	X	X	
		TP-106-depth-date	Objective: to investigate subsurface soil conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X			
		TP-107-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 5, 7, 8, 9, 15, 16, 17, 19, 20, and 21	X	X	X	X		
		TP-108-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 5, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X	X	X	
		TP-109-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 5, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, and 21	X	X		X		
		TP-110-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 5, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X			
		TP-111-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 5, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, and 21		X	X			
		TP-112-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19 ,20, and 21	X	X	X	X	X	
		TP-113-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X	X	X	
		TP-114-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26		X	X	X	X	

Table 5

Summary of Proposed Analytical Samples/Designations
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Matrix	Sample Designation	Notes	Justification for Sample Location*	Laboratory Analysis					
					8260 VOCs + 10 TICs	8270 SVOCs + 20 TICs	TAL Metals and Cyanide 6010, 7470, 7471, 9012	PCBs 8082	Pesticides 8081	TO-15
Test Pits	Subsurface Soil	TP-115-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26		X	X			
		TP-116-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X		X	X		
		TP-117-depth-date	Objective: to investigate subsurface soil conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X		X	X	
		TP-118-depth-date	Objective: to investigate subsurface soil conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X			
		TP-119-depth-date	Objective: to investigate subsurface soil conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X		X		
		TP-120-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X	X		
		TP-121-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X				
		TP-122-depth-date	Objective: to investigate subsurface soil conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X		X		
		TP-123-depth-date	Objective: to investigate subsurface soil conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26		X	X	X	X	
		TP-124-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X		X		
		TP-125-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X			
		TP-126-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26			X	X		
		TP-127-depth-date	Objective: to investigate subsurface soil conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26						
		TP-128-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X			X	
		TP-129-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26		X	X	X		
		TP-130-depth-date	Objective: to investigate subsurface soil conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X		X	X	X	
		TP-131-depth-date	Objective: to investigate subsurface soil conditions	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X	X		
		TP-132-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X		X	
		TP-133-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X			
		TP-134-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X		X	
		TP-135-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26			X	X	X	
		TP-136-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X				
		TP-137-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X	X	X	
		TP-138-depth-date	Objective: to investigate subsurface soil conditions	DG; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X		X		
		TP-139-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X	X	X	

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Summary of Proposed Analytical Samples/Designations
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Rochester, New York
Site No. C828190

	Sample Matrix	Sample Designation	Notes	Justification for Sample Location*	Laboratory Analysis					
					8260 VOCs + 10 TICs	8270 SVOCs + 20 TICs	TAL Metals and Cyanide 6010, 7470, 7471, 9012	PCBs 8082	Pesticides 8081	TO-15
Test Pits	Subsurface Soil	TP-140-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X	X		
		TP-141-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X	X		
		TP-142-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26		X	X	X		
		TP-143-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X		X	
		TP-144-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X		X		
		TP-145-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26						
		TP-146-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26			X			
		TP-147-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X	X		
		TP-148-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X		X	
		TP-149-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26		X	X	X	X	
		TP-150-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X		X	X		
		TP-151-depth-date	Objective: to investigate subsurface soil conditions	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21			X	X		
		TP-XXX-depth-date-MS	1st Matrix Spike	1st Matrix Spike	X	X	X	X	X	
		TP-XXX-depth-date-MSD	1st Matrix Spike Duplicate	1st Matrix Spike Duplicate	X	X	X	X	X	
		TP-XXX-depth-date-MS	2nd Matrix Spike	2nd Matrix Spike	X	X	X	X		
		TP-XXX-depth-date-MSD	2nd Matrix Spike Duplicate	2nd Matrix Spike Duplicate	X	X	X	X		
		TP-XXX-depth-date-MS	3rd Matrix Spike	3rd Matrix Spike		X		X		
		TP-XXX-depth-date-MSD	3rd Matrix Spike Duplicate	3rd Matrix Spike Duplicate		X		X		
		DUP-008-date	1st blind laboratory duplicate	1st blind laboratory duplicate	X	X	X	X	X	
		DUP-009-date	2nd blind laboratory duplicate	2nd blind laboratory duplicate	X	X	X	X		
		DUP-010-date	3rd blind laboratory duplicate	3rd blind laboratory duplicate		X		X		
		FB-TP-XXX-date	1st field blank	1st field blank	X	X	X	X	X	
		FB-TP-XXX-date	2nd field blank	2nd field blank	X	X	X	X		
		FB-TP-XXX-date	3rd field blank	3rd field blank		X		X		
		TB-TP-date	1st trip blank	1st trip blank	X					
		TB-TP-date	2nd trip blank	2nd trip blank	X					
		TB-TP-date	3rd trip blank	3rd trip blank	X					
		TB-TP-date	4th trip blank	4th trip blank	X					
		TB-TP-date	5th trip blank	5th trip blank	X					
		TB-TP-date	6th trip blank	6th trip blank	X					
Monitoring Wells	Aqueous	OVR-100-date	Objective: to evaluate groundwater quality	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, and 21	X	X	X	X		
		OVR-101-date	Objective: to evaluate groundwater quality	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, and 21	X	X	X	X		
		OVR-102-date	Objective: to evaluate groundwater quality	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, and 21	X	X	X	X		
		OVR-103-date	Objective: to evaluate groundwater quality	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, and 21	X	X	X	X		

Table 5

Summary of Proposed Analytical Samples/Designations
Portion of Former Vacuum Oil Refinery
Rochester, New York
Site No. C828190

	Sample Matrix	Sample Designation	Notes	Justification for Sample Location*	Laboratory Analysis					
					8260 VOCs + 10 TICs	8270 SVOCs + 20 TICs	TAL Metals and Cyanide 6010, 7470, 7471, 9012	PCBs 8082	Pesticides 8081	TO-15
Monitoring Wells	Aqueous	OVR-104-date	Objective: to evaluate groundwater quality	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, and 21	X	X	X	X		
		OVR-105-date	Objective: to evaluate groundwater quality	C; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, and 21	X	X	X	X		
		OVR-106-date	Objective: to evaluate groundwater quality	C; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, and 21	X	X	X	X		
		OVR-107-date	Objective: to evaluate groundwater quality	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X	X		
		OVR-108-date	Objective: to evaluate groundwater quality	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X	X		
		OVR-109-date	Objective: to evaluate groundwater quality	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X	X		
		OVR-110-date	Objective: to evaluate groundwater quality	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X	X		
		OVR-111-date	Objective: to evaluate groundwater quality	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X	X		
		OVR-112-date	Objective: to evaluate groundwater quality	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X	X		
		OVR-113-date	Objective: to evaluate groundwater quality	C; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X	X		
		OVR-114-date	Objective: to evaluate groundwater quality	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X	X		
		OVR-115-date	Objective: to evaluate groundwater quality	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X	X		
		OVR-116-date	Objective: to evaluate groundwater quality	DG; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X	X		
		OVR-117-date	Objective: to evaluate groundwater quality	DG; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X	X		
		OVR-118-date	Objective: to evaluate groundwater quality	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X	X		
		OVR-119-date	Objective: to evaluate groundwater quality	GC; RECs 1, 2, 3, 5, 7, 8, 9, 13, 15, 16, 17, 19, 20, and 21	X	X	X	X		
		OVR-120-date	Objective: to evaluate groundwater quality	GC; RECs 1, 2, 3, 5, 7, 8, 9, 13, 15, 16, 17, 19, 20, and 21	X	X	X	X		
		OVR-121-date	Objective: to evaluate groundwater quality	GC; RECs 1, 2, 3, 5, 7, 8, 9, 13, 15, 16, 17, 19, 20, and 21	X	X	X	X		
		OVR-122-date	Objective: to evaluate groundwater quality	GC; RECs 1, 2, 3, 5, 7, 8, 9, 13, 15, 16, 17, 19, 20, and 21	X	X	X	X		
		OVR-123-date	Objective: to evaluate groundwater quality	DG; RECs 1, 2, 3, 5, 7, 8, 9, 13, 15, 16, 17, 19, 20, and 21	X	X	X	X		
		OVR-124-date	Objective: to evaluate groundwater quality	GC; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X	X		
		OVR-125-date	Objective: to evaluate groundwater quality	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X	X		
		OVR-126-date	Objective: to evaluate groundwater quality	DG; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X	X		
		OVR-127-date	Objective: to evaluate groundwater quality	DG; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X	X		
		OVR-128-date	Objective: to evaluate groundwater quality	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X	X		

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Summary of Proposed Analytical Samples/Designations
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Rochester, New York
Site No. C828190

	Sample Matrix	Sample Designation	Notes	Justification for Sample Location*	Laboratory Analysis					
					8260 VOCs + 10 TICs	8270 SVOCs + 20 TICs	TAL Metals and Cyanide 6010, 7470, 7471, 9012	PCBs 8082	Pesticides 8081	TO-15
Monitoring Wells	Aqueous	OVR-129-date	Objective: to evaluate groundwater quality	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, and 21	X	X	X	X		
		BED1-100-date	Objective: to evaluate groundwater quality	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 13, 14, 15, 16, 17, 18, 19, 20, and 21	X	X	X	X		
		BED1-101-date	Objective: to evaluate groundwater quality	DG; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X	X		
		BED1-102-date	Objective: to evaluate groundwater quality	DG; RECs 1, 2, 3, 4, 5, 6, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, 21, and 26	X	X	X	X		
		BED1-103-date	Objective: to evaluate groundwater quality	DG; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X	X		
		BED1-104-date	Objective: to evaluate groundwater quality	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, and 21	X	X	X	X		
		MW-3-date	Objective: to evaluate groundwater quality	GC; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X	X	X	X		
		MW-XXX-date-MS	1st Matrix Spike	1st Matrix Spike	X	X	X	X		
		MW-XXX-date-MSD	1st Matrix Spike Duplicate	1st Matrix Spike Duplicate	X	X	X	X		
		MW-XXX-date-MS	2nd Matrix Spike	2nd Matrix Spike	X	X	X	X		
		MW-XXX-date-MSD	2nd Matrix Spike Duplicate	2nd Matrix Spike Duplicate	X	X	X	X		
		DUP-011-date	1st blind laboratory duplicate	1st blind laboratory duplicate	X	X	X	X		
		DUP-012-date	2nd blind laboratory duplicate	2nd blind laboratory duplicate	X	X	X	X		
		FB-MW-XXX-date	1st field blank	1st field blank	X	X	X	X		
		FB-MW-XXX-date	2nd field blank	2nd field blank	X	X	X	X		
		TB-MW-date	1st trip blank	1st trip blank	X					
		TB-MW-date	2nd trip blank	2nd trip blank	X					
		TB-MW-date	3rd trip blank	3rd trip blank	X					
		TB-MW-date	4th trip blank	4th trip blank	X					
		TB-MW-date	5th trip blank	5th trip blank	X					
		TB-MW-date	6th trip blank	6th trip blank	X					
		TB-MW-date	7th trip blank	7th trip blank	X					
Grab Groundwater	Aqueous	GW-100-date	Objective: to evaluate groundwater qualtiy	GC; P; RECs 1, 2, 3, 5, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, and 21	X					
		GW-101-date	Objective: to evaluate groundwater qualtiy	GC; P; RECs 1, 2, 3, 5, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, and 21	X					
		GW-102-date	Objective: to evaluate groundwater qualtiy	DG; P; RECs 1, 2, 3, 5, 7, 8, 9, 14, 15, 16, 17, 18, 19, 20, and 21	X					
		GW-103-date	Objective: to evaluate groundwater qualtiy	GC; P; RECs 1, 2, 3, 5, 7, 8, 9, 15, 16, 17, 19, 20, and 21	X					
		GW-104-date	Objective: to evaluate groundwater qualtiy	GC; P; RECs 1, 2, 3, 5, 7, 8, 9, 15, 16, 17, 19, 20, and 21	X					
		GW-105-date	Objective: to evaluate groundwater qualtiy	GC; P; RECs 1, 2, 3, 5, 7, 8, 9, 15, 16, 17, 19, 20, and 21	X					
		GW-106-date	Objective: to evaluate groundwater qualtiy	GC; P; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X					
		GW-107-date	Objective: to evaluate groundwater qualtiy	GC; P; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X					
		GW-108-date	Objective: to evaluate groundwater qualtiy	GC; P; RECs 1, 2, 3, 5, 6, 7, 8, 9, 12, 13, 14, 15, 16, 17, 19, 20, 21, and 26	X					
		GW-XXX-date-MS	1st Matrix Spike	1st Matrix Spike	X					
		GW-XXX-date-MSD	1st Matrix Spike Duplicate	1st Matrix Spike Duplicate	X					
		DUP-013-date	1st blind laboratory duplicate	1st blind laboratory duplicate	X					
		FB-GW-XXX-date	1st field blank	1st field blank	X					
		TB-GW-date	1st trip blank	1st trip blank	X					

Table 5

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Rochester, New York
Site No. C828190

	Sample Matrix	Sample Designation	Notes	Justification for Sample Location*	Laboratory Analysis					
					8260 VOCs + 10 TICs	8270 SVOCs + 20 TICs	TAL Metals and Cyanide 6010, 7470, 7471, 9012	PCBs 8082	Pesticides 8081	TO-15
Soil Vapor	Soil Vapor	SV-100	Objective: to evaluate soil vapor	P						X
		SV-101	Objective: to evaluate soil vapor	P						X
		SV-102	Objective: to evaluate soil vapor	P						X
		SV-103	Objective: to evaluate soil vapor	P						X
		SV-104	Objective: to evaluate soil vapor	P						X
		SV-105	Objective: to evaluate soil vapor	P						X
		SV-106	Objective: to evaluate soil vapor	P						X
		SV-107	Objective: to evaluate soil vapor	P						X
		SV-108	Objective: to evaluate soil vapor	P						X
		DUP-014-date	1st blind laboratory duplicate	1st blind laboratory duplicate						X
		FB-SV-XXX-date	1st field blank	1st field blank						X

Notes:
1. Temperature blanks will be provided by the laboratory and will accompany each cooler containing analytical samples for shipment from the Site to the laboratory in accordance with the QCP
2. Mercury has two separate methods (7470/7471) depending on sample matrix (aqueous/solid).
3. The rationale on laboratory analysis and Quality Assurance/Quality Control samples is provided within the RI Work Plan narrative.
4. A second round of groundwater sampling (included QA/QC) will be performed several months after the first round to assist in evaluating season fluctuations.
5. Soil boring and/or test pit locations without laboratory analysis will be advanced/excavated for visual/olfactory purposes only..

GC = Proposed sample location for Remedial Investigation General Site Coverage
DG = Evaluation of Data Gap and/or Vertical or Lateral Evaluation of Identified Exceedance in Soil or Groundwater
C = Confirmation or Reevaluation of Previous Non-Validated Investigative Results
P = Location along Perimeter of Site near Residential and/or River
RECs = Recognized Environmental Conditions, as identified within the Section 2.6 of the RI Work Plan narrative.