Orig. Req.
Rec'd. 11/5
from Vanessa Macwan

TABLE 1
PARAMETERS, METHODS, AND TARGET REPORTING LIMITS
ROLLING KNOLLS LANDFILL SUPERFUND SITE
CHATHAM, NEW JERSEY

Analyte (method)	CAS Number	Sediment Minimum Screening Level (mg/kg)	Soil Minimum Screening Level (mg/kg)	Sample Matrix Soil/Sediment Laboratory MDL (mg/kg)	Sample Matrix Soil/Sediment Laboratory RL (mg/kg)	Surface Water Minimum Screening Level (µg/L)	Groundwater Minimum Screening Level (µg/L)	Sample Matrix Water Laboratory MDL (µg/L)	Sample Matrix Water Laboratory RL (µg/L)	
TCL - Volatiles (SOM01.2)										
1,1,1-Trichloroethane	71-55-6	0.213	0.005	0.00023	0.005	76	30	0.22	5	
1,1,2,2-Tetrachloroethane	79-34-5	0.850	0.127	0.00030	0.005	4.7	1.0	0.21	5	
1,1,2-Trichloro-1,2,2-trifluoroetha	76-13-1	NA	NA	0.00027	0.005	NA	5500	0.25	5	
1,1,2-Trichloroethane	79-00-5	0.518	2.0	0.00076	0.005	13	3.0	0.25	5	
1,1-Dichloroethane	75-34-3	0.027	8.0	0.00027	0.005	0.29	50	0.2	5	
1,1-Dichloroethene	75-35-4	0.019	8.3	0.00026	0.005	4.7	1.0	0.43	5	
1,2,3-Trichlorobenzene	87-61-6	NA	20	0.00026	0.005	NA	0.70	0.57	5	
1,2,4-Trichlorobenzene	120-82-1	5.1	20	0.00026	0.005	21	9.0	0.49	5	
1,2-Dibromo-3-chloropropane	96-12-8	NA	0.080	0.00044	0.005	NA	0.02	0.39	5	SIM = 0.05 µg/L
1,2-Dibromoethane	106-93-4	NA	0.008	0.00022	0.005	NA	0.03	0.23	5	SIM = 0.05 µg/L
1,2-Dichlorobenzene	95-50-1	0.294	3.0	0.00023	0.005	14	600	0.17	5	
1,2-Dichloroethane	107-06-2	0.260	0.90	0.00033	0.005	0.29	2.0	0.26	5	
1,2-Dichloropropane	78-87-5	0.333	2.0	0.00039	0.005	0.50	1.0	0.46	5	
1,3-Dichlorobenzene	541-73-1	1.3	38	0.00027	0.005	38	600	0.18	5	
1,4-Dichlorobenzene	106-46-7	0.318	20	0.00033	0.005	9.4	75	0.39	5	
1,4-Dioxane	123-91-1	NA	7.0	0.022	0.1	NA	0.78	11	100	
2-Butanone	78-93-3	0.270	3100	0.00130	0.01	14000	300	0.84	10	
2-Hexanone	591-78-6	0.022	20	0.00085	0.01	99	3.8	0.79	10	
4-Methyl-2-pentanone	108-10-1	0.033	630	0.00067	0.01	170	120	0.25	10	
Acetone	67-64-1	0.009	70000	0.00190	0.01	1500	6000	1.6	10	
Benzene	71-43-2	0.142	0.26	0.00023	0.005	0.15	1.0	0.21	5	
Bromochloromethane	74-97-5	NA	15	0.00031	0.005	NA	8.3	0.26	5	
Bromodichloromethane	75-27-4	NA	0.54	0.00035	0.005	0.55	1.0	0.18	5	
Bromoform	75-25-2	0.492	16	0.00024	0.005	4.3	4.0	0.13	5	
Bromomethane	74-83-9	0.001	0.24	0.00070	0.005	16	10	0.95	5	
Carbon Disulfide	75-15-0	NA	7800	0.00028	0.005	0.92	700	0.95	5	
Carbon Tetrachloride	56-23-5	1.5	0.60	0.00020	0.005	0.33	1.0	0.14	5	
Chlorobenzene	108-90-7	0.291	13	0.00028	0.005	47	50	0.29	5	
Chloroethane	75-00-3	NA	220	0.00059	0.005	NA	NA	0.60	5	
Chloroform	67-66-3	0.121	0.60	0.00031	0.005	68	70	0.22	5	
Chloromethane	74-87-3	NA	4.0	0.00029	0.005	NA	19	0.34	5	
cis-1,2-Dichloroethene	156-59-2	NA	230	0.00031	0.005	NA	70	0.30	5	
cis-1,3-Dichloropropene	10061-01-5	NA	2.0	0.00027	0.005	0.34	1.0	0.22	5	
Cyclohexane	110-82-7	NA	650	0.00021	0.005	NA	1300	0.25	5	
Dibromochloromethane	124-48-1	NA	2.1	0.00026	0.005	0.40	1.0	0.19	5	
Dichlorodifluoromethane	75-71-8	NA	490	0.00029	0.005	NA	1000	0.25	5	
Ethylbenzene	100-41-4	0.175	5.2	0.00034	0.005	14	700	0.23	5	
Isopropylbenzene	98-82-8	NA	NA	0.00021	0.005	NA	NA	0.24	5	

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m,p-Xylene	108-38-3 / 106-42-3	NA	NA	0.00019	0.005	NA	NA	0.26	5
Methyl Acetate	79-20-9	NA	78000	0.00028	0.005	NA	7000	0.26	5
Methyl tert-Butyl Ether	1634-04-4	NA	110	0.00027	0.005	70	70	0.27	5
Methylcyclohexane	108-87-2	NA	NA	0.00050	0.005	NA	NA	0.26	5
Methylene Chloride	75-09-2	0.159	4.1	0.00037	0.005	2.5	3.0	0.31	5
o-Xylene	95-47-6	NA	65	0.00026	0.005	NA	19	0.22	5
Styrene	100-42-5	0.254	4.7	0.00024	0.005	32	100	0.24	5
Tetrachloroethene	127-18-4	1.0	2.0	0.00024	0.005	0.34	1.0	0.31	5
Toluene	108-88-3	1.2	200	0.00025	0.005	253	600	0.27	5
trans-1,2-Dichloroethene	156-60-5	0.654	0.78	0.00026	0.005	590	100	0.54	5
trans-1,3-Dichloropropene	10061-02-6	NA	2.0	0.00024	0.005	0.34	1.0	0.21	5
Trichloroethene	79-01-6	0.112	7.0	0.00033	0.005	1.0	1.0	0.82	5
Trichlorofluoromethane	75-69-4	NA	23000	0.00037	0.005	NA	2000	0.21	5
Vinyl Chloride	75-01-4	0.202	0.65	0.00031	0.005	0.08	1.0	0.52	5
Xylenes (Total)	1330-20-7	0.433	10	NA	NA	27	1000	NA	NA
TCL - Semivolatiles (SOM01.2)									
1,1'-Biphenyl	92-52-4	1.1	3100	0.013	0.17	14	400	0.47	5
1,2,4,5-Tetrachlorobenzene	95-94-3	1.3	2.0	0.0088	0.17	0.97	0.24	1.0	5
2,2'-oxybis(1-Chloropropane)	108-60-1	NA	NA	0.011	0.17	NA	NA	0.7	5
2,3,4,6-Tetrachlorophenol	58-90-2	NA	180	0.009	0.17	NA	200	0.24	5
2,4,5-Trichlorophenol	95-95-4	NA	4.0	0.012	0.17	1800	700	0.53	5
2,4,6-Trichlorophenol	88-06-2	0.208	4.0	0.010	0.17	0.58	20	0.57	5
2,4-Dichlorophenol	120-83-2	0.082	88	0.017	0.17	11	20	0.41	5
2,4-Dimethylphenol	105-67-9	0.304	0.010	0.013	0.17	100	100	0.34	5
2,4-Dinitrophenol	51-28-5	0.006	0.061	0.016	0.33	19	40	7.4	10
2,4-Dinitrotoluene	121-14-2	0.014	0.700	0.015	0.17	0.11	10	0.36	5
2,6-Dinitrotoluene	606-20-2	NA	0.700	0.015	0.17	NA	10	0.39	5
2-Chloronaphthalene	91-58-7	0.417	0.012	0.012	0.17	0.40	600	0.40	5
2-Chlorophenol	95-57-8	0.032	0.243	0.013	0.17	24	40	0.47	5
2-Methylnaphthalene	91-57-6	NA	230	0.013	0.17	NA	3.6	0.40	5 — SIM = 0.10 µg/L
2-Methylphenol	95-48-7	0.012	310	0.010	0.17	13	NA	0.39	5
2-Nitroaniline	88-74-4	NA	39	0.039	0.33	NA	19	2.1	10
2-Nitrophenol	88-75-5	NA	NA	0.014	0.17	NA	NA	0.39	5
3,3'-Dichlorobenzidine	91-94-1	0.127	0.646	0.031	0.17	0.02	30	0.26	5
3-Nitroaniline	99-09-2	NA	NA	0.038	0.33	NA	NA	2.3	10
4,6-Dinitro-2-methylphenol	534-52-1	NA	6.0	0.028	0.33	NA	NA	5	10
4-Bromophenyl-phenylether	101-55-3	1.2	NA	0.012	0.17	1.5	NA	0.58	5
4-Chloro-3-methylphenol	59-50-7	NA	NA	0.016	0.17	NA	NA	0.50	5

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TCL - Semivolatiles (SOM01.2) continued										
4-Chloroaniline	106-47-8	NA	2.7	0.020	0.17	NA	30	0.53	5	
4-Chlorophenyl-phenylether	7005-72-3	NA	NA	0.014	0.17	NA	NA	0.44	5	
3&4-Methylphenol	108-39-4 / 106-44-5	NA	31	0.013	0.17	NA	NA	0.73	5	
4-Nitroaniline	100-01-6	NA	25	0.039	0.33	NA	3.8	3.9	10	NO SIM
4-Nitrophenol	100-02-7	0.013	NA	0.042	0.33	60	NA	4	10	
Acenaphthene	83-32-9	0.007	20	0.010	0.17	38	400	0.54	5	
Acenaphthylene	208-96-8	0.006	682	0.011	0.17	4840	NA?	0.50	5	
Acetophenone	98-86-2	NA	780	0.038	0.17	NA	700	0.67	5	
Anthracene	120-12-7	0.220	1480	0.010	0.17	0.04	2000	0.51	5	
Atrazine	1912-24-9	NA	210	0.016	0.17	NA	3.0	1	5	NO SIM
Benzaldehyde	100-52-7	NA	6100	0.027	0.17	NA	200	0.84	5	
Benzo(a)anthracene	56-55-3	0.320	0.60	0.014	0.17	0.03	0.10	0.44	5	SIM = 0.10 µg/L
Benzo(a)pyrene	50-32-8	0.370	0.20	0.013	0.17	0.00	0.10	0.40	5	SIM = 0.10 " "
Benzo(b)fluoranthene	205-99-2	10	0.60	0.024	0.17	0.00	0.20	0.98	5	SIM = 0.10 " "
Benzo(g,h,i)perylene	191-24-2	0.170	119	0.019	0.17	7.64	NA	0.53	5	
Benzo(k)fluoranthene	207-08-9	0.240	6	0.015	0.17	0.38	0.50	0.43	5	SIM = 0.10 µg/L
bis(2-Chloroethoxy) methane	111-91-1	NA	23	0.012	0.17	NA	5.9	0.57	5	
bis(2-Chloroethyl) ether	111-44-4	3.5	0.40	0.011	0.17	0.03	7.0	0.76	5	
bis-(2-Ethylhexyl)phthalate	117-81-7	0.182	0.93	0.043	0.17	0.30	3.0	2.9	5	NO SIM
Butylbenzylphthalate	85-68-7	2.0	0.24	0.018	0.17	23	100	1.6	5	
Caprolactam	105-60-2	NA	31000	0.020	0.17	NA	990	1.5	5	
Carbazole	86-74-8	NA	24	0.013	0.17	NA	NA	0.3	5	
Chrysene	218-01-9	0.340	4.7	0.014	0.17	3.8	5.0	0.55	5	
Dibenzo(a,h)anthracene	53-70-3	0.060	0.20	0.020	0.17	0.004	0.30	0.37	5	SIM = 0.10 µg/L
Dibenzofuran	132-64-9	0.420	7.2	0.012	0.17	3.7	0.79	0.38	5	NO SIM
Diethylphthalate	84-66-2	0.295	25	0.010	0.17	110	6000	0.37	5	
Dimethylphthalate	131-11-3	NA	NA	0.012	0.17	NA	NA	0.47	5	
Di-n-butylphthalate	84-74-2	1.1	0.150	0.013	0.17	9.7	700	0.38	5	
Di-n-octylphthalate	117-84-0	NA	2400	0.015	0.17	708	100	0.61	5	
Fluoranthene	206-44-0	0.750	122	0.014	0.17	1.9	300	0.41	5	
Fluorene	86-73-7	0.190	122	0.015	0.17	19	300	0.42	5	
Hexachlorobenzene	118-74-1	0.020	0.199	0.007	0.17	0.00028	0.02	0.52	5	NO SIM
Hexachlorobutadiene	87-68-3	0.027	0.040	0.011	0.17	0.05	1.0	0.32	5	NO SIM
Hexachlorocyclopentadiene	77-47-4	0.901	0.755	0.018	0.17	40	40	0.45	5	
Hexachloroethane	67-72-1	0.584	0.596	0.007	0.17	1.4	7.0	0.36	5	
Indeno(1,2,3-cd)pyrene	193-39-5	0.200	0.600	0.018	0.17	0.04	0.20	0.65	5	
Isophorone	78-59-1	0.432	139	0.010	0.17	35	40	0.46	5	

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TCL - Semivolatiles (SOM01.2) continued									
Naphthalene	91-20-3	0.176	0.099	0.011	0.17	13	300	0.44	5
Nitrobenzene	98-95-3	0.145	1.3	0.014	0.17	17	6	0.69	5
N-Nitroso-di-n-propylamine	86-30-6	NA	0.200	0.022	0.17	0.01	10	0.64	5
N-Nitrosodiphenylamine	621-64-7	NA	0.545	0.013	0.17	3.30	10	0.57	5
Pentachlorophenol	87-86-5	23	0.119	0.022	0.33	0.27	0.30	3.2	10 — SIM = 0.20 µg/L
Phenanthrene	85-01-8	0.560	45.7	0.013	0.17	3.6	NA	0.43	5
Phenol	108-95-2	0.049	30.0	0.014	0.17	180	2000	0.61	5
Pyrene	129-00-0	0.490	78.5	0.023	0.17	0.30	200	0.38	5
Semivolatiles-SIM (SOM01.2)									
2-Methylnaphthalene	91-57-6	NA	230	0.00021	0.0033	NA	3.6	0.40	0.10
Acenaphthene	83-32-9	0.007	20	0.00017	0.0033	38	400	0.54	0.10
Acenaphthylene	208-96-8	0.006	682	0.00056	0.0033	4840	NA	0.50	0.10
Anthracene	120-12-7	0.220	1480	0.00011	0.0033	0.035	2000	0.51	0.10
Benzo(a)anthracene	56-55-3	0.320	0.600	0.00025	0.0033	0.025	0.10	0.44	0.10
Benzo(a)pyrene	50-32-8	0.370	0.200	0.00029	0.0033	0.0038	0.10	0.40	0.10
Benzo(b)fluoranthene	205-99-2	10	0.600	0.00017	0.0033	0.0038	0.20	0.98	0.10
Benzo(g,h,i)perylene	191-24-2	0.170	119.0	0.00021	0.0033	7.64	NA	0.53	0.10
Benzo(k)fluoranthene	207-08-9	0.240	6.0	0.00021	0.0033	0.38	0.50	0.43	0.10
Chrysene	218-01-9	0.340	4.7	0.00017	0.0033	3.8	5.0	0.55	0.10
Dibenzo(a,h)anthracene	53-70-3	0.060	0.200	0.00022	0.0033	0.0038	0.30	0.37	0.10
Fluoranthene	206-44-0	0.750	122	0.00027	0.0033	1.9	300	0.41	0.10
Fluorene	86-73-7	0.190	122	0.00015	0.0033	19	300	0.42	0.10
Indeno(1,2,3-cd)pyrene	193-39-5	0.200	0.600	0.00021	0.0033	0.038	0.20	0.65	0.10
Naphthalene	91-20-3	0.176	0.099	0.00044	0.0033	13	300	0.44	0.10
Pentachlorophenol	87-86-5	23	0.119	0.00190	0.0067	0.27	0.30	3.2	0.20
Phenanthrene	85-01-8	0.560	45.7	0.00020	0.0033	3.6	NA	0.43	0.10
Pyrene	129-00-0	0.490	78.5	0.00021	0.0033	0.30	200	0.38	0.10
TCL - PCB/Pesticides (SOM01.2)									
2,4'-DDD	53-19-0	NA	NA	NA	0.0033	NA	NA	NA	0.10
2,4'-DDE	3424-82-6	NA	NA	NA	0.0033	NA	NA	NA	0.10
2,4'-DDT	789-02-6	NA	NA	NA	0.0033	NA	NA	NA	0.10
4,4'-DDD	72-54-8	0.008	0.758	0.0001	0.0033	0.0003	0.10	0.027	0.10
4,4'-DDE	72-55-9	0.005	0.596	0.0001	0.0033	0.0002	0.10	0.03	0.10
4,4'-DDT	50-29-3	0.008	0.004	0.0001	0.0033	0.0002	0.10	0.019	0.10
Aldrin	309-00-2	0.002	0.003	0.0001	0.0017	0.0000	0.04	0.023	0.05
alpha-BHC	319-84-6	0.006	0.099	0.0001	0.0017	0.0026	0.02	0.011	0.05
alpha-Chlordane	5103-71-9	NA	NA	0.0001	0.0017	NA	NA	0.016	0.05
beta-BHC	319-85-7	0.005	0.004	0.0001	0.0017	0.009	0.04	0.011	0.05

SIM Routine Anal.

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TCL - PCB/Pesticides (SOM01.2) continued									
delta-BHC	319-86-8	NA	NA	0.0000	0.0017	2.20	NA	0.0089	0.05
Dieldrin	60-57-1	0.002	0.002	0.0001	0.0033	0.00005	0.03	0.023	0.10
Endosulfan I	959-8-8	0.006	470	0.0002	0.0017	0.05	40	0.0099	0.05
Endosulfan II	33213-65-9	0.006	470	0.0001	0.0033	0.05	40	0.01	0.10
Endosulfan sulfate	1031-07-8	0.035	0.036	0.0001	0.0033	2.22	40	0.01	0.10
Endrin	72-20-8	0.003	0.010	0.0001	0.0033	0.036	2.0	0.02	0.10
Endrin aldehyde	7421-93-4	0.480	0.011	0.0001	0.0033	0.059	NA	0.03	0.10
Endrin ketone	53494-70-5	NA	NA	0.0001	0.0033	NA	NA	0.016	0.10
gamma-BHC (Lindane)	58-89-9	0.003	0.005	0.0000	0.0017	0.026	0.03	0.011	0.05
gamma-Chlordane	5103-74-2	NA	NA	0.0002	0.0017	NA	NA	0.018	0.05
Heptachlor	76-44-8	0.001	0.006	0.0001	0.0017	0.000079	0.05	0.015	0.05
Heptachlor epoxide	1024-57-3	0.005	0.070	0.0001	0.0017	0.000039	0.20	0.015	0.05
Methoxychlor	72-43-5	0.014	0.020	0.0005	0.017	0.03	40	0.068	0.50
Toxaphene	8001-35-2	0.000	0.119	0.0083	0.17	0.0002	2.0	5.0	5.0
Aroclor-1016	12674-11-2	0.007	0.400	0.0015	0.031	NA	0.14	0.14	1.0
Aroclor-1221	11104-28-2	0.120	0.150	0.0048	0.042	0.28	0.0046	0.11	1.0
Aroclor-1232	11141-16-5	0.600	0.150	0.0007	0.031	0.58	0.0046	0.14	1.0
Aroclor-1242	53469-21-9	0.170	0.240	0.0010	0.033	0.053	0.039	0.11	1.0
Aroclor-1248	12672-29-6	0.030	0.240	0.0012	0.021	0.081	0.039	0.25	1.0
Aroclor-1254	11097-69-1	0.060	0.110	0.0015	0.033	0.033	0.039	0.1	1.0
Aroclor-1260	11096-82-5	0.005	0.240	0.0009	0.031	94	0.039	0.098	1.0
Aroclor-1262	37324-23-5	NA	NA	0.0011	0.031	NA	NA	0.12	1.0
Aroclor-1268	11100-14-4	NA	NA	0.0016	0.031	NA	NA	0.11	1.0
PCBs (EPA 1668a)**									
2',3,4,4',5-PeCB (PCB-123)	65510-44-3	NA	0.120	NA	0.000002	NA	0.02	NA	0.00002
2,3',4,4',5-PeCB (PCB-118)	31508-00-6	NA	0.120	NA	0.000002	NA	0.02	NA	0.00002
2,3,4,4',5-PeCB (PCB-114)	74472-37-0	NA	0.120	NA	0.000002	NA	0.02	NA	0.00002
2,3,3',4,4'-PeCB (PCB-105)	32598-14-4	NA	0.120	NA	0.000002	NA	0.02	NA	0.00002
3,3',4,4',5-PeCB (PCB-126)	57465-28-8	NA	0.000037	NA	0.000002	NA	0.000014	NA	0.00002
2,3',4,4',5,5'-HxCB (PCB-167)	52663-72-6	NA	0.120	NA	0.000002	NA	0.02	NA	0.00002
2,3,3',4,4',5-HxCB (PCB-156)	38380-08-4	NA	0.120	NA	0.000004	NA	0.02	NA	0.00004
2,3,3',4,4',5'-HxCB (PCB-157)	69782-90-7	NA	0.120	NA	0.000004	NA	0.02	NA	0.00004
3,3',4,4',5,5'-HxCB (PCB-169)	32774-16-6	NA	0.00012	NA	0.000002	NA	0.00002	NA	0.00002
2,3,3',4,4',5,5'-HpCB (PCB-189)	39635-31-9	NA	NA	NA	0.000002	NA	0.02	NA	0.00002

MA: 2093.3

MA: 2094.2
20X lower
= 0.05 µg/L

TABLE 1
PARAMETERS, METHODS, AND TARGET REPORTING LIMITS
ROLLING KNOLLS LANDFILL SUPERFUND SITE
CHATHAM, NEW JERSEY

Analyte (method)	CAS Number	Sediment Minimum Screening Level (mg/kg)	Soil Minimum Screening Level (mg/kg)	Sample Matrix: Soil/Sediment: Laboratory MDL (mg/kg)	Sample Matrix: Soil/Sediment: Laboratory RL (mg/kg)	Surface Water Minimum Screening Level (µg/L)	Groundwater Minimum Screening Level (µg/L)	Sample Matrix: Water: Laboratory MDL (µg/L)	Sample Matrix: Water: Laboratory RL (µg/L)
Dioxins by 1613									
2,3,7,8-TCDD	1746-01-6	0.00000012	0.0000002	NA	0.000001	0.000000003	0.00001	NA	0.00001
Total TCDD	--	NA	NA	NA	0.000001	NA	NA	NA	0.00001
2,3,7,8-TCDF	51207-31-9	NA	NA	NA	0.000001	NA	NA	NA	0.00001
Total TCDF	--	NA	NA	NA	0.000001	NA	NA	NA	0.00001
1,2,3,7,8-PeCDD	40321-76-4	NA	NA	NA	0.000005	NA	NA	NA	0.00005
Total PeCDD	--	NA	NA	NA	0.000005	NA	NA	NA	0.00005
1,2,3,7,8-PeCDF	57117-41-6	NA	NA	NA	0.000005	NA	NA	NA	0.00005
2,3,4,7,8-PeCDF	57117-31-4	NA	NA	NA	0.000005	NA	NA	NA	0.00005
Total PeCDF	--	NA	NA	NA	0.000005	NA	NA	NA	0.00005
1,2,3,4,7,8-HxCDD	39227-28-6	NA	NA	NA	0.000005	NA	NA	NA	0.00005
1,2,3,6,7,8-HxCDD	57653-85-7	NA	NA	NA	0.000005	NA	NA	NA	0.00005
1,2,3,7,8,9-HxCDD	19408-74-3	NA	NA	NA	0.000005	NA	NA	NA	0.00005
Total HxCDD	--	NA	NA	NA	0.000005	NA	NA	NA	0.00005
1,2,3,4,7,8-HxCDF	70648-26-9	NA	NA	NA	0.000005	NA	NA	NA	0.00005
1,2,3,6,7,8-HxCDF	57117-44-9	NA	NA	NA	0.000005	NA	NA	NA	0.00005
1,2,3,7,8,9-HxCDF	72918-21-9	NA	NA	NA	0.000005	NA	NA	NA	0.00005
2,3,4,6,7,8-HxCDF	60851-34-5	NA	NA	NA	0.000005	NA	NA	NA	0.00005
Total HxCDF	--	NA	NA	NA	0.000005	NA	NA	NA	0.00005
1,2,3,4,6,7,8-HpCDD	35822-46-9	NA	NA	NA	0.000005	NA	NA	NA	0.00005
Total HpCDD	--	NA	NA	NA	0.000005	NA	NA	NA	0.00005
1,2,3,4,6,7,8-HpCDF	67562-39-4	NA	NA	NA	0.000005	NA	NA	NA	0.00005
1,2,3,4,7,8,9-HpCDF	55673-89-7	NA	NA	NA	0.000005	NA	NA	NA	0.00005
Total HpCDF	--	NA	NA	NA	0.000005	NA	NA	NA	0.00005
OCDD	3268-87-9	NA	NA	NA	0.000010	NA	NA	NA	0.0001
OCDF	39001-02-0	NA	NA	NA	0.000010	NA	NA	NA	0.0001
TAL - Metals (ISM01.3)									
Aluminum	7429-90-5	58030	50	2.0	20	87	200	27.2	200
Antimony	7440-36-0	12	5.0	0.23	6	5.6	6.0	3.3	60
Arsenic	7440-38-2	6	9.9	0.24	1	0.017	3.0	1.8	10
Barium	7440-39-3	NA	283	0.44	20	220	6000	1.8	200
Beryllium	7440-41-7	NA	10	0.013	0.5	3.6	1.0	0.050	5.0
Cadmium	7440-43-9	0.60	0.360	0.029	0.5	3.4	4.0	0.27	5.0
Calcium	7440-70-2	NA	NA	4.2	500	NA	NA	66.2	5000
Chromium	7440-47-3	26	0.40	0.039	1	42	70	0.26	10
Cobalt	7440-48-4	50	0.14	0.046	5	24	100	0.66	50
Copper	7440-50-8	16	5.4	0.25	2.5	1300	1300	2.5	25
Iron	7439-89-6	NA	5500	1.5	10	158	300	10.1	100
Lead	7439-92-1	31	11	0.35	1	5.0	5.0	1.3	10

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CHATHAM, NEW JERSEY

Analyte (method)	CAS Number	Sediment Minimum Screening Level (mg/kg)	Soil Minimum Screening Level (mg/kg)	Sample Matrix: Soil/Sediment: Laboratory MDL (mg/kg)	Sample Matrix: Soil/Sediment: Laboratory RL (mg/kg)	Surface Water Minimum Screening Level (µg/L)	Groundwater Minimum Screening Level (µg/L)	Sample Matrix: Water: Laboratory MDL (µg/L)	Sample Matrix: Water: Laboratory RL (µg/L)
TAL - Metals (ISM01.3) continued									
Magnesium	7439-95-4	NA	NA	3.0	500	NA	NA	50.8	5000
Manganese	7439-96-5	630	220	0.049	1.5	120	50	0.15	15
Mercury	7439-97-6	0.20	0.0005	0.024	0.1	0.05	2.0	1.2	0.20
Nickel	7440-02-0	16	13.6	0.098	4	500	100	89.1	40
Potassium	7440-09-7	NA	NA	7.3	500	NA	NA	3.5	5000
Selenium	7782-49-2	NA	0.210	0.45	3.5	5.0	40	0.57	35
Silver	7440-22-4	0.50	2.0	0.057	1	0.12	40	22.6	10
Sodium	7440-23-5	NA	NA	2.5	500	NA	50000	1.9	5000
Thallium	7440-28-0	NA	1.0	0.32	2.5	0.24	2.0	0.63	25
Vanadium	7440-62-2	NA	2.0	0.055	5	12	10	0.38	50
Zinc	7440-66-6	120	8.5	0.068	6	7400	2000	0.036	60
Cyanide	57-12-5	0.0001	1.3	0.16	2.5	5.2	100	2.06	10
Low Level Mercury by 1631									
Mercury	7439-97-6	0.20	0.0005	NA	NA	0.05	2.0	0.0002	0.0005

Notes:

Minimum screening levels for the respective medium were derived from the following EBSLs and human health criteria, in the following order:

Sediment: NJDEP Ecological Screening Criteria; ORNL Toxicological Benchmarks for Screening Potential Contaminants of Concern for Effects on Sediment-Associated Biota (Jones et al. 1997).

Soil: NJDEP Ecological Screening Criteria or NJ Soil Remediation Standards; USEPA (2014) Regional Screening Level (RSL) Residential Soil (Cancer Risk = $1x10^{-6}$; NonCancer Hazard = 0.1).

Surface Water: NJ GWQC (Freshwater Chronic or Human Health Criteria); ORNL Toxicological Benchmarks for Screening Potential Contaminants of Concern for Effects on Aquatic Biota (Suter and Tsao 1996).

Groundwater: NJDEP Groundwater Qualtiy Standards N.J.A.C. 7:9C; USEPA (2014) Regional Screening Level (RSL) Tapwater (Cancer Risk = $1x10^{-6}$; NonCancer Hazard = 0.1).

Additional screening levels may be included based on site characterization information.

** Only congeners with a screening value available were presented; however, all 209 congeners will be analyzed and reported.

µg/L - micrograms per liter
EBSL - Ecologically-Based Screening Level
MDL - Method Detection Limit
mg/kg - milligrams per kilogram
NA - Not Available
NJDEP - New Jersey Department of Environmental Protection
NJ GWQC - New Jersey Groundwater Quality Criteria
ORNL - Oak Ridge National Laboratory
PCB - Polychlorinated Biphenyl
RL - Reporting Limit
TAL - Target Analyte List
TCL - Target Compound List