Appendix G

Summary Statistics and Sediment/Soil Screening Tables

Appendix G1

Summary Statistics Tables

APPENDIX G1. SUMMARY STATISTICS TABLES OF CHEMICAL PARAMETERS OF INTEREST FOR RI CHAPTER 5

This section of Appendix G presents the summary statistics tables of chemical parameters of interest (CPOIs), which are discussed in Chapter 5 (Nature and Extent of Contamination) of this RI. The summary statistics tables present contaminant distribution in:

- Lake sediment (Tables G1-1 through G1-22).
- Tributary sediment (Tables G1-23 through G1-54).
- Wetlands sediment (Tables G1-55 through G1-60).
- Dredge spoils area soil (Table G1-61).
- Lake water (Tables G1-62 through G1-65).
- Tributary water (Tables G1-66 through G1-101).
- Groundwater (Tables G1-102 and G1-103).
- Biological tissue (Tables G1-104 through G1-115).

The data summarized in these tables are derived primarily from the RI data reports prepared by Honeywell (PTI, 1993a,c,d, 1994, 1996a, 1997b) and from Appendices A through D of this RI for the four most recent investigations (i.e., the supplemental lake water sampling conducted by Honeywell/Exponent in 1999, the Phase 2A investigation conducted by Honeywell/Exponent in 2000, the supplemental water sampling conducted by NYSDEC/TAMS in 2001, and the supplemental Wetland SYW-6 sampling conducted by NYSDEC/TAMS in 2002).

Table G1-1. Metals Concentrations in Sediment of Otisco Lake

Parameter	Units	Detection Frequency	Minimum Detected	Maximum Detected	Detection Limits Min	Detection Limits Max
Aluminum	mg/kg-dw	7/ 7	2,250	13,700	-	-
Antimony	mg/kg-dw	1/ 7	0.82	0.82	0.78	5.6
Arsenic	mg/kg-dw	7/ 7	0.52	7.7	-	-
Barium	mg/kg-dw	7/ 7	11	189	-	-
Beryllium	mg/kg-dw	2/ 7	0.61	0.77	0.22	0.51
Cadmium	mg/kg-dw	1/ 7	0.74	0.74	0.11	0.51
Calcium	mg/kg-dw	7/ 7	2,870	193,000	-	-
Chromium	mg/kg-dw	7/ 7	3.1	24	-	-
Cobalt	mg/kg-dw	7/ 7	3.3	8.9	-	-
Copper	mg/kg-dw	6/ 7	24	158	7.8	7.8
Cyanide	mg/kg-dw	0/ 7	-	-	0.9	3.1
Iron	mg/kg-dw	7/ 7	5,020	20,800	-	-
Lead	mg/kg-dw	7/ 7	1.3	32	-	-
Magnesium	mg/kg-dw	7/ 7	1,300	7,670	-	-
Manganese	mg/kg-dw	7/ 7	87	1,180	-	-
Mercury	mg/kg-dw	2/ 12	0.13	0.22	0.06	0.19
Methylmercury	ug/kg-dw	7/ 7	0.16	1.5	-	-
Nickel	mg/kg-dw	7/ 7	5.6	23	-	-
Potassium	mg/kg-dw	7/ 7	148	2,320	-	-
Selenium	mg/kg-dw	3/ 7	0.6	3.2	0.15	1.5
Silver	mg/kg-dw	0/ 7	-	-	0.3	1.0
Sodium	mg/kg-dw	3/ 7	34	395	88	148
Thallium	mg/kg-dw	0/ 7	-	-	0.15	2.0
Vanadium	mg/kg-dw	7/ 7	3.2	24	-	-
Zinc	mg/kg-dw	7/ 7	14	84	-	-

Note: Surface sediment samples (0 - 15 cm) collected from Otisco Lake in 1992 (Stations OT1 - OT5) and 2000 (Stations OT6 - OT7).

Table G1-2. Summary Statistics for Lake Surface Sediment Samples Collected by Honeywell/Exponent in 2000 (0 to 5 cm depth)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Total organic carbon	%	dw	9	4.78	31.4	10.3	9.06	8.13	2.71	2.69	7.67					
Total solids	%	dw	9	41.5	61	52.0	54.2	7.19	2.40	-0.25	-1.22					
Percent clay	%	dw	9	3.0	9.0	6.44	6.0	2.01	0.67	-0.19	-0.60					
Percent silt	%	dw	9	10	84	38.2	23.0	29.8	9.93	0.71	-1.22					
Percent sand	%	dw	9	10	86	55.3	68.0	30.5	10.2	-0.61	-1.36					
Total Metals and Cyanide																
Aluminum	mg/kg	dw	12	1,000	6,480	2,913	1,870	2,096	605	1.1	-0.59					
Antimony	mg/kg	dw	4	0.40	0.90	0.67	0.68	0.24	0.12	-0.18	-4.20	8	0.33	0.45	0.38	0.38
Arsenic	mg/kg	dw	12	0.71	19	5.55	3.15	6.34	1.83	1.45	0.86					
Barium	mg/kg	dw	12	70	1,640	277	116	440	127	3.19	10.5					
Beryllium	mg/kg	dw	12	0.13	0.44	0.23	0.20	0.10	0.03	1.04	0.10					
Cadmium	mg/kg	dw	12	0.15	2.6	0.97	0.39	0.93	0.27	0.86	-0.95					
Calcium	mg/kg	dw	12	207,000	392,000	283,000	292,500	58,900	17,000	0.33	-0.86					
Chromium	mg/kg	dw	12	13	229	64.5	46.0	65.0	18.8	1.92	3.30					
Cobalt	mg/kg	dw	12	0.63	22	5.20	2.50	6.58	1.90	1.92	3.19					
Copper	mg/kg	dw	12	5.6	64	29.4	28.7	17.0	4.90	0.89	0.62					
Cyanide	mg/kg	dw	1	2.0	2.0	2.0	2.0					11	0.82	1.2	1.0	0.94
Iron	mg/kg	dw	12	2,040	11,800	6,313	4,360	3,960	1,140	0.32	-2.01					
Lead	mg/kg	dw	12	7.3	124	31.1	20.6	31.7	9.15	2.61	7.74					
Magnesium	mg/kg	dw	12	2,840	12,400	6,002	4,990	3,140	906	0.89	-0.35					
Manganese	mg/kg	dw	12	155	844	327	294	177	51	2.55	7.62					
Total Mercury	mg/kg	dw	12	0.07	12	3.39	0.85	4.71	1.36	1.32	-0.11					
Nickel	mg/kg	dw	12	5.9	107	25	11	32	9.22	2.10	3.76					
Potassium	mg/kg	dw	12	40	2,090	703	488	736	212	1.24	0.34					
Selenium	mg/kg	dw	8	0.87	5.4	1.74	1.15	1.51	0.54	2.58	6.90	4	0.65	1.3	0.90	0.82
Silver	mg/kg	dw	7	0.19	1.7	0.68	0.36	0.61	0.23	1.20	-0.43	5	0.13	0.16	0.15	0.15
Sodium	mg/kg	dw	12	744	5,690	2,070	1,660	1,500	433	1.76	2.57					
Thallium	mg/kg	dw										12	0.81	1.2	1.0	0.94
Vanadium	mg/kg	dw	12	2.3	23	10	8.15	7.57	2.19	0.79	-0.61					
Zinc	mg/kg	dw	12	38	160	77.1	73.4	36.8	10.6	1.39	1.46					
Volatile Organic Compounds																
Benzene	µg/kg	dw	5	12	30,000	6,104	170	13,400	5,970	2.24	5.0	1	5.0	5.0	5.0	5.0
Toluene	µg/kg	dw	4	23	6,900	2,430	1,400	3,050	1,530	1.72	3.24	2	5.0	6.0	5.5	5.5
Ethylbenzene	µg/kg	dw	5	11	71,000	14,400	190	31,600	14,100	2.24	5.0	1	5.0	5.0	5.0	5.0
Styrene	µg/kg	dw	3	18	2,300	1,310	1,600	1,170	675	-1.06		3	5.0	39	16.7	6.0
Xylene(m,p)	µg/kg	dw	1	2,900	2,900	2,900	2,900									
Xylene(o)	µg/kg	dw	1	1,000	1,000	1,000	1,000									
Xylene (Total)	µg/kg	dw	4	46	330,000	88,100	11,100	162,000	80,800	1.98	3.92	1	5.0	5.0	5.0	5.0
Chlorobenzene	µg/kg	dw	4	140	2,900	1,450	1,380	1,410	703	0.09	-5.27	2	5.0	39	22	22
1,2-Dichlorobenzene	µg/kg	dw	2	400	1,800	1,100	1,100	990	700			10	51	230,000	23,100	59
1,3-Dichlorobenzene	µg/kg	dw										12	51	230,000	19,300	63
1,4-Dichlorobenzene	µg/kg	dw	2	390	4,200	2,300	2,300	2,690	1,910			10	51	230,000	23,100	59
1,2,4-Trichlorobenzene	µg/kg	dw										12	51	230,000	19,300	63
Chloromethane	µg/kg	dw										6	11	6,500	1,280	36
Bromomethane	µg/kg	dw										6	11	6,500	1,280	36
Chloroethane	µg/kg	dw										6	11	6,500	1,280	36
Methylene chloride	µg/kg	dw	1	29	29	29	29					5	11	6,500	1,530	39

Table G1-2. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
2,4,6-Trichlorophenol	µg/kg	dw										12	260	1,200,000	101,000	325
2,4,5-Trichlorophenol	µg/kg	dw										12	260	1,200,000	101,000	325
Pentachlorophenol	µg/kg	dw										12	1,300	6,000,000	503,000	1,600
2-Nitrophenol	µg/kg	dw										12	260	1,200,000	101,000	325
4-Nitrophenol	µg/kg	dw										12	1,300	6,000,000	503,000	1,600
2,4-Dinitrophenol	µg/kg	dw										12	1,300	6,000,000	503,000	1,600
2-Methyl-4,6-dinitrophenol	µg/kg	dw										12	1,300	6,000,000	503,000	1,600
Hexachloroethane	µg/kg	dw										12	51	230,000	19,300	63
Hexachlorobutadiene	µg/kg	dw										12	51	230,000	19,300	63
Hexachlorocyclopentadiene	µg/kg	dw										12	260	1,200,000	101,000	325
Bis(2-chloroethyl)ether	µg/kg	dw										12	51	230,000	19,300	63
4-Chlorophenyl-phenyl ether	µg/kg	dw										12	51	230,000	19,300	63
4-Bromophenyl-phenyl ether	µg/kg	dw										12	51	230,000	19,300	63
Bis(2-chloroethoxy)methane	µg/kg	dw										12	51	230,000	19,300	63
2,2'-Oxybis(1-chloropropane)	µg/kg	dw										12	51	230,000	19,300	63
Dimethyl phthalate	µg/kg	dw										12	51	230,000	19,300	63
Diethyl phthalate	µg/kg	dw										12	51	230,000	19,300	63
Di-n-butyl phthalate	µg/kg	dw										12	51	230,000	19,300	63
Butylbenzyl phthalate	µg/kg	dw										12	51	230,000	19,300	63
Bis(2-ethylhexyl)phthalate	µg/kg	dw	3	62	370	187	130	162	93.4	1.39		9	72	230,000	25,700	120
Di-n-octyl phthalate	µg/kg	dw										12	51	230,000	19,300	63
Isophorone	µg/kg	dw										12	51	230,000	19,300	63
Dibenzofuran	µg/kg	dw	1	340	340	340	340					11	51	230,000	21,000	59
Carbazole	µg/kg	dw	1	210	210	210	210					11	51	230,000	21,000	59
Nitrobenzene	µg/kg	dw										12	51	230,000	19,300	63
N-nitroso-di-n-propylamine	µg/kg	dw										12	51	230,000	19,300	63
2-Nitroaniline	µg/kg	dw										12	100	470,000	39,400	130
3-Nitroaniline	µg/kg	dw										12	1,300	6,000,000	503,000	1,600
4-Nitroaniline	µg/kg	dw										12	1,300	6,000,000	503,000	1,600
2,6-Dinitrotoluene	µg/kg	dw										12	260	1,200,000	101,000	325
2,4-Dinitrotoluene	µg/kg	dw										12	260	1,200,000	101,000	325
N-Nitrosodiphenylamine	µg/kg	dw										12	51	230,000	19,300	63
N-Nitrosodimethylamine	µg/kg	dw										12	260	1,200,000	101,000	325
4-Chloroaniline	µg/kg	dw										12	51	230,000	19,300	63
3,3-Dichlorobenzidine	µg/kg	dw										12	51	230,000	19,300	63
Pesticides/Polychlorinated Biphenyls																
alpha-BHC	µg/kg	dw										8	1.02	1.10	1.07	1.07
beta-BHC	µg/kg	dw	1	1.62	1.62	1.62	1.62					9	1.02	1.10	1.07	1.07
delta-BHC	µg/kg	dw	1	1.54	1.54	1.54	1.54									
gamma-BHC (Lindane)	µg/kg	dw										6	1.02	1.10	1.06	1.08
Aldrin	µg/kg	dw										8	1.02	1.10	1.07	1.07
alpha-Chlordane	µg/kg	dw	1	3.96	3.96	3.96	3.96					8	1.02	1.10	1.07	1.07
gamma-Chlordane	µg/kg	dw	2	1.60	10.4	6.0	6.0	6.22	4.40			7	1.02	1.10	1.06	1.06
Dieldrin	µg/kg	dw	3	1.38	4.85	2.83	2.25	1.81	1.04	1.29		5	1.02	1.10	1.06	1.06
Endosulfan I	µg/kg	dw	1	5.30	5.30	5.30	5.30					8	1.02	1.10	1.07	1.07
Endosulfan II	µg/kg	dw										2	1.02	1.08	1.05	1.05
Endosulfan sulfate																
Endrin	µg/kg	dw										9	1.02	1.10	1.07	1.07
Endrin aldehyde	µg/kg	dw	2	1.53	2.13	1.83	1.83	0.42	0.30			8	1.02	1.10	1.07	1.08
Endrin ketone	µg/kg	dw										9	1.02	1.10	1.07	1.07
Heptachlor	µg/kg	dw	1	3.43	3.43	3.43	3.43					8	1.02	1.10	1.07	1.07
Heptachlor epoxide	µg/kg	dw	5	1.18	6.0	2.81	2.25	1.90	0.85	1.63	2.85	2	1.02	1.10	1.06	1.06
Methoxychlor	µg/kg	dw										9	1.02	1.10	1.07	1.07

Table G1-2. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
4,4'-DDD	µg/kg	dw										4	1.02	1.10	1.06	1.05
4,4'-DDE	µg/kg	dw	2	1.42	4.84	3.13	3.13	2.42	1.71			7	1.02	1.10	1.06	1.06
4,4'-DDT	µg/kg	dw	6	1.71	7.79	3.89	2.58	2.62	1.07	0.97	-1.36	2	1.02	1.10	1.06	1.06
Toxaphene	µg/kg	dw										9	1.02	110	95.4	107
Aroclor 1016	µg/kg	dw										12	50.8	54.9	53.2	53.5
Aroclor 1221	µg/kg	dw										12	50.8	54.9	53.2	53.5
Aroclor 1232	µg/kg	dw										12	50.8	54.9	53.2	53.5
Aroclor 1242	µg/kg	dw	7	16.4	161	49.6	29.0	52.1	19.7	2.13	4.59	5	50.8	54.9	53.2	53.6
Aroclor 1248	µg/kg	dw	1	60.5	60.5	60.5	60.5					11	50.9	54.9	53.4	53.6
Aroclor 1254	µg/kg	dw	7	13.6	142	56.8	49.1	41.3	15.6	1.72	3.67	5	52.3	54.9	53.5	53.6
Aroclor 1260	µg/kg	dw	6	13.6	57.6	28.8	25.3	16.1	6.58	1.31	1.73	6	52.3	54.9	53.4	53.3
Aroclor 1268	µg/kg	dw	1	75.6	75.6	75.6	75.6					11	50.8	54.9	53.2	53.6
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	1	0.59	0.59	0.59	0.59					1	0.10	0.10	0.10	0.10
Total TCDDs	ng/kg	dw	2	12.7	14.3	13.5	13.5	1.13	0.80							
2,3,7,8-TCDF	ng/kg	dw	2	18.0	19.2	18.6	18.6	0.85	0.60							
Total TCDFs	ng/kg	dw	2	72.2	91.4	81.8	81.8	13.6	9.60							
1,2,3,7,8-PeCDD	ng/kg	dw	2	0.58	0.67	0.63	0.63	0.06	0.04							
Total PeCDDs	ng/kg	dw	2	2.66	3.84	3.25	3.25	0.83	0.59							
1,2,3,7,8-PeCDF	ng/kg	dw	2	6.76	9.36	8.06	8.06	1.84	1.30							
2,3,4,7,8-PeCDF	ng/kg	dw	2	3.65	3.70	3.68	3.68	0.04	0.03							
Total PeCDFs	ng/kg	dw	2	31.9	37.1	34.5	34.5	3.68	2.60							
1,2,3,4,7,8-HxCDD	ng/kg	dw	2	0.48	0.56	0.52	0.52	0.06	0.04							
1,2,3,6,7,8-HxCDD	ng/kg	dw	2	1.81	1.84	1.83	1.83	0.02	0.01							
1,2,3,7,8,9-HxCDD	ng/kg	dw	2	1.24	1.42	1.33	1.33	0.13	0.09							
Total HxCDDs	ng/kg	dw	2	14.9	15.6	15.3	15.3	0.49	0.35							
1,2,3,4,7,8-HxCDF	ng/kg	dw	2	11.0	22.4	16.7	16.7	8.06	5.70							
1,2,3,6,7,8-HxCDF	ng/kg	dw	2	3.49	7.07	5.28	5.28	2.53	1.79							
1,2,3,7,8,9-HxCDF	ng/kg	dw	2	0.27	0.46	0.36	0.36	0.13	0.09							
2,3,4,6,7,8-HxCDF	ng/kg	dw	2	0.96	1.10	1.03	1.03	0.10	0.07							
Total HxCDFs	ng/kg	dw	2	31.6	51.5	41.6	41.6	14.1	9.95							
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	2	30.1	30.4	30.3	30.3	0.21	0.15							
Total HpCDDs	ng/kg	dw	2	59.6	62.3	61.0	61.0	1.91	1.35							
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	2	16.4	25.2	20.8	20.8	6.22	4.40							
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	2	4.30	11.0	7.65	7.65	4.74	3.35							
Total HpCDFs	ng/kg	dw	2	36.2	59.9	48.1	48.1	16.8	11.9							
OCDD	ng/kg	dw	2	232	240	236	236	5.66	4.0							
OCDF	ng/kg	dw	2	65.6	126	95.8	95.8	42.7	30.2							

Table G1-3. Summary Statistics for Lake Sediment Samples Collected by Honeywell/Exponent in 2000 (0 to 15 cm depth)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Total organic carbon	%	dw	60	1.15	46.3	7.75	7.56	5.58	0.72	5.71	39.8					
Total solids	%	dw	60	18.9	88.6	50.6	52.2	14.0	1.81	0.07	0.19					
Percent clay	%	dw	60	0	18	8.12	7.0	4.60	0.59	0.73	-0.25					
Percent silt	%	dw	60	3	89	46.3	47.0	24.4	3.15	-0.12	-0.98					
Percent sand	%	dw	60	4	93	45.7	46.5	24.9	3.21	0.35	-0.71					
Total Metals and Cyanide																
Aluminum	mg/kg	dw	78	747	14,500	4,260	3,930	2,760	313	1.27	2.18					
Antimony	mg/kg	dw	40	0.3	5.4	1.19	0.73	1.14	0.18	2.02	4.04	38	0.24	0.87	0.40	0.36
Arsenic	mg/kg	dw	75	0.43	47.3	6.13	4.70	6.81	0.79	3.52	17.7	3	0.35	0.42	0.38	0.38
Barium	mg/kg	dw	78	24.2	2,070	357	144	434	49.2	1.90	3.07					
Beryllium	mg/kg	dw	77	0.05	0.79	0.33	0.36	0.16	0.02	0.38	-0.36	1	0.02	0.02	0.02	0.02
Cadmium	mg/kg	dw	75	0.08	14.9	2.11	1.0	2.89	0.33	2.78	8.40	3	0.04	0.05	0.05	0.05
Calcium	mg/kg	dw	78	45,300	409,000	264,000	277,000	75,700	8,580	-0.83	0.51					
Chromium	mg/kg	dw	78	3.2	4,180	237	44.1	648	73.3	4.69	23.5					
Cobalt	mg/kg	dw	78	0.2	170	11.9	3.80	25.7	2.91	4.25	20.8					
Copper	mg/kg	dw	78	1.8	366	68.4	39.9	77.4	8.76	2.28	5.71					
Cyanide	mg/kg	dw	8	0.94	6.4	2.46	1.60	1.86	0.66	1.64	2.43	70	0.57	2.30	1.13	1.0
Iron	mg/kg	dw	78	1,780	50,800	11,200	7,680	9,680	1,100	1.73	3.37					
Lead	mg/kg	dw	78	0.74	750	97.8	47.5	141	16.0	2.65	7.70					
Magnesium	mg/kg	dw	78	2,460	34,700	9,550	7,470	7,150	809	1.69	2.64					
Manganese	mg/kg	dw	78	107	1,190	330	311	164	18.6	2.44	9.59					
Total Mercury	mg/kg	dw	75	0.06	77.7	5.62	1.90	11.3	1.30	4.39	23.8	3	0.05	0.10	0.06	0.05
Nickel	mg/kg	dw	78	3.0	1,670	88.6	21.9	247	28.0	4.96	26.3					
Potassium	mg/kg	dw	74	18	3,480	874	649	786	91.3	1.37	1.62	4	11.7	16.1	14.0	14.1
Selenium	mg/kg	dw	42	0.64	5.9	1.63	1.20	1.09	0.17	2.09	4.99	36	0.48	1.70	0.94	0.92
Silver	mg/kg	dw	47	0.11	6.1	1.49	0.61	1.53	0.22	1.32	0.98	31	0.09	0.25	0.15	0.14
Sodium	mg/kg	dw	78	383	11,900	3,140	2,310	2,400	272	1.73	3.33					
Thallium	mg/kg	dw	6	0.88	2.9	1.36	1.04	0.78	0.32	2.15	4.75	72	0.56	2.20	1.07	0.94
Vanadium	mg/kg	dw	78	1.8	319	24.9	9.65	49.7	5.62	4.34	20.7					
Zinc	mg/kg	dw	78	11	421	127	97.4	97.6	11.1	1.11	0.47					
Volatile Organic Compounds																
Benzene	µg/kg	dw	42	2.0	42,000	2,050	270	6,570	1,010	5.78	35.5	17	3	5,200	525	8.8
Toluene	µg/kg	dw	28	3.2	8,300	2,040	625	2,700	510	1.34	0.57	31	3	6,400	885	9
Ethylbenzene	µg/kg	dw	36	0.90	7,000	1,210	625	1,800	300	2.22	4.26	23	3	6,400	529	8.8
Styrene	µg/kg	dw	10	340	4,800	1,340	745	1,350	426	2.21	5.28	49	3	6,400	826	14
Xylene(m,p)	µg/kg	dw	14	2.1	100,000	16,200	475	27,200	7,260	2.51	7.36	12	6.2	16	10.0	8.9
Xylene(o)	µg/kg	dw	10	5.2	23,000	7,130	5,850	7,840	2,480	0.99	0.26	16	6.2	22	11.0	9
Xylene (Total)	µg/kg	dw	26	3.0	150,000	13,600	2,650	30,500	5,970	3.95	17.2	7	3	6,400	1,720	4
Chlorobenzene	µg/kg	dw	45	3.0	1,000,000	36,900	1,600	150,000	22,400	6.25	40.6	14	3	1,200	179	8.75
1,2-Dichlorobenzene	µg/kg	dw	21	38	48,000	6,360	1,300	12,200	2,670	2.67	6.97	57	33	11,000	370	65
1,3-Dichlorobenzene	µg/kg	dw	9	81	37,000	5,240	710	12,000	4,000	2.93	8.66	69	33	11,000	419	72
1,4-Dichlorobenzene	µg/kg	dw	35	49	170,000	13,115	1,900	34,800	5,890	3.75	14.3	43	46	2,500	167	61
1,2,4-Trichlorobenzene	µg/kg	dw	7	330	35,000	6,810	2,400	12,600	4,760	2.52	6.47	71	33	11,000	403	72

Table G1-3. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Chloromethane	µg/kg	dw										59	6.2	15,000	2,600	23
Bromomethane	µg/kg	dw										59	6.2	15,000	2,600	23
Chloroethane	µg/kg	dw										59	6.2	15,000	2,600	23
Methylene chloride	µg/kg	dw	6	4.2	8,000	3,040	2,650	3,070	1,250	0.76	-9.4E-03	53	4	14,000	2,270	22
1,1-Dichloroethane	µg/kg	dw	8	7.4	1,200	308	12	550	195	1.44	-1.8E-04	51	3	14,000	1,670	26
Chloroform	µg/kg	dw										59	3	14,000	1,480	16
1,2-Dichloroethane	µg/kg	dw										59	3	14,000	1,480	16
1,1,1-Trichloroethane	µg/kg	dw	1	2.7	2.7	2.7	2.7					58	3	14,000	1,510	19
Carbon tetrachloride	µg/kg	dw										57	3	14,000	1,510	16
Bromodichloromethane	µg/kg	dw										59	3	14,000	1,480	16
1,2-Dichloropropane	µg/kg	dw										59	3	14,000	1,480	16
Dibromochloromethane	µg/kg	dw										56	3	14,000	1,560	24
1,1,2-Trichloroethane	µg/kg	dw										59	3	14,000	1,480	16
Bromoform	µg/kg	dw										59	3	14,000	1,480	16
1,1,2,2-Tetrachloroethane	µg/kg	dw										59	3	14,000	1,480	16
Vinyl chloride	µg/kg	dw										59	6.2	15,000	2,600	23
1,1-Dichloroethene	µg/kg	dw										59	3	14,000	1,480	16
cis-1,2-Dichloroethene	µg/kg	dw										58	3	14,000	1,510	19
trans-1,2-Dichloroethene	µg/kg	dw										59	3	14,000	1,485	16
cis-1,3-Dichloropropene	µg/kg	dw										59	3	14,000	1,485	16
trans-1,3-Dichloropropene	µg/kg	dw										52	3	14,000	1,420	16
Trichloroethene	µg/kg	dw	1	1.7	1.7	1.7	1.7					58	3	14,000	1,510	19
Tetrachloroethene	µg/kg	dw	1	3.0	3.0	3.0	3					58	3	14,000	1,510	19
Acetone	µg/kg	dw	14	8.0	290	94.6	52.5	90.3	24.1	1.21	0.32	25	14	57,000	3,430	30
2-Butanone	µg/kg	dw	20	2.0	94	23.3	10.5	25.0	5.59	1.54	2.01	21	12	29,000	2,940	23
2-Hexanone	µg/kg	dw										59	7	29,000	2,900	32
4-Methyl-2-pentanone	µg/kg	dw										59	7	29,000	2,980	32
Carbon disulfide	µg/kg	dw	14	0.70	17	6.36	5.30	4.78	1.28	0.91	0.22	45	4	29,000	2,440	2,200
Semivolatile Organic Compounds																
Hexachlorobenzene	µg/kg	dw	1	140	140	140	140					77	33	11,000	476	77
Hexachlorobenzene (GC/ECD)	µg/kg	dw	49	1.1	6,750	205	18.5	975	139	6.59	44.7	20	1	1.1	1.06	1.07
Benzyl Alcohol	µg/kg	dw										78	170	59,000	2,470	400
2-Chloronaphthalene	µg/kg	dw										78	33	11,000	471	77
Naphthalene	µg/kg	dw	38	48	170,000	26,300	15,500	37,200	6,030	2.29	6.10	40	46	890	108	61
Acenaphthylene	µg/kg	dw	29	65	19,000	1,380	480	3,490	649	4.91	25.3	49	33	3,800	325	65
Acenaphthene	µg/kg	dw	19	70	85,000	6,080	450	19,400	4,440	4.19	17.9	59	33	3,800	339	72
Fluorene	µg/kg	dw	24	58	140,000	7,940	890	28,400	5,800	4.74	22.9	54	33	3,800	280	66
Phenanthrene	µg/kg	dw	48	60	380,000	11,560	1,030	54,900	7,930	6.70	45.8	30	51	3,400	298	62.5
Anthracene	µg/kg	dw	32	60	95,000	4,960	680	16,900	2,990	5.22	28.4	46	51	3,800	386	66
2-Methylnaphthalene	µg/kg	dw	29	34	46,000	4,870	2,300	8,660	1,610	4.15	19.3	49	33	890	111	62
Fluoranthene	µg/kg	dw	55	58	250,000	7,500	760	33,800	4,560	7.10	51.7	23	52	3,800	558	67
Pyrene	µg/kg	dw	55	31	150,000	4,960	560	20,400	2,760	6.89	49.4	23	52	3,800	674	72
Benz(a)anthracene	g/kg	dw	47	40	100,000	3,510	370	14,600	2,120	6.61	44.6	31	51	3,800	472	67
Chrysene	µg/kg	dw	48	45	100,000	3,510	450	14,400	2,080	6.68	45.5	30	51	3,800	486	67.5
Benzo(b)fluoranthene	µg/kg	dw	43	40	57,000	2,380	330	8,680	1,320	6.23	39.9	35	51	3,800	493	68
Benzo(k)fluoranthene	µg/kg	dw	43	40	60,000	2,490	320	9,140	1,390	6.21	39.8	35	51	3,800	493	68
Benzo(a)pyrene	µg/kg	dw	43	48	65,000	2,760	370	9,920	1,510	6.16	39.3	35	51	3,800	493	68
Indeno(1,2,3-cd)pyrene	µg/kg	dw	37	35	38,000	1,780	280	6,230	1,020	5.77	34.3	41	51	3,800	523	72
Dibenz(a,h)anthracene	µg/kg	dw	20	43	17,000	1,360	440	3,730	833	4.30	18.9	58	33	3,800	392	70
Benzo(g,h,i)perylene	µg/kg	dw	36	66	35,000	1,820	320	5,840	974	5.55	32.1	42	51	3,800	512	74.5
Phenol	µg/kg	dw	10	190	2,600	1,090	785	860	272	0.76	-0.89	68	33	11,000	502	72

Table G1-3. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
2-Methylphenol	µg/kg	dw	3	220	1,100	523	250	500	288	1.73		75	33	11,000	484	77
4-Methylphenol	µg/kg	dw	4	660	2,200	1,240	1,050	667	334	1.51	2.76	74	33	11,000	489	77.5
2,4-Dimethylphenol	µg/kg	dw	1	990	990	990	990					77	170	59,000	2,480	400
2-Chlorophenol	µg/kg	dw										78	33	11,000	471	77
2,4-Dichlorophenol	µg/kg	dw										78	170	59,000	2,470	400
4-Chloro-3-methylphenol	µg/kg	dw										78	170	59,000	2,470	400
2,4,6-Trichlorophenol	µg/kg	dw										78	170	59,000	2,470	400
2,4,5-Trichlorophenol	µg/kg	dw										78	170	59,000	2,470	400
Pentachlorophenol	µg/kg	dw										78	850	300,000	12,400	2,000
2-Nitrophenol	µg/kg	dw										78	170	59,000	2,470	400
4-Nitrophenol	µg/kg	dw										78	850	300,000	12,400	2,000
2,4-Dinitrophenol	µg/kg	dw										78	850	300,000	12,400	2,000
2-Methyl-4,6-dinitrophenol	µg/kg	dw										78	850	300,000	12,400	2,000
Hexachloroethane	µg/kg	dw										78	33	11,000	471	77
Hexachlorobutadiene	µg/kg	dw										78	33	11,000	471	77
Hexachlorocyclopentadiene	µg/kg	dw										72	170	59,000	2,320	360
Bis(2-chloroethyl)ether	µg/kg	dw										78	33	11,000	471	77
4-Chlorophenyl-phenyl ether	µg/kg	dw										78	33	11,000	471	77
4-Bromophenyl-phenyl ether	µg/kg	dw										78	33	11,000	471	77
Bis(2-chloroethoxy)methane	µg/kg	dw										78	33	11,000	471	77
2,2'-Oxybis(1-chloropropane)	µg/kg	dw										78	33	11,000	471	77
Dimethyl phthalate	µg/kg	dw										78	33	11,000	471	77
Diethyl phthalate	µg/kg	dw										78	33	11,000	471	77
Di-n-butyl phthalate	µg/kg	dw	8	41	170	84.1	69.5	51.4	18.2	1.22	-0.22	70	33	11,000	516	81
Butylbenzyl phthalate	µg/kg	dw										78	33	11,000	471	77
Bis(2-ethylhexyl)phthalate	µg/kg	dw	34	55	5,100	1,330	850	1,350	232	1.31	1.01	44	33	11,000	728	105
Di-n-octyl phthalate	µg/kg	dw										78	33	11,000	471	77
Isophorone	µg/kg	dw										78	33	11,000	471	77
Dibenzofuran	µg/kg	dw	18	70	81,000	6,360	700	19,000	4,470	4.02	16.6	60	33	3,800	312	70
Carbazole	µg/kg	dw	9	56	19,000	2,740	770	6,130	2,040	2.94	8.72	69	33	3,800	348	77
Nitrobenzene	µg/kg	dw										78	33	11,000	471	77
N-nitroso-di-n-propylamine	µg/kg	dw										78	33	11,000	471	77
2-Nitroaniline	µg/kg	dw										78	67	23,000	969	160
3-Nitroaniline	µg/kg	dw										77	850	300,000	12,500	2,000
4-Nitroaniline	µg/kg	dw										78	850	300,000	12,400	2,000
2,6-Dinitrotoluene	µg/kg	dw										78	170	59,000	2,470	400
2,4-Dinitrotoluene	µg/kg	dw										78	170	59,000	2,470	400
N-Nitrosodiphenylamine	µg/kg	dw										78	33	11,000	471	77
N-Nitrosodimethylamine	µg/kg	dw										78	170	59,000	2,470	400
4-Chloroaniline	µg/kg	dw	1	140	140	140	140					76	33	11,000	481	77
3,3-Dichlorobenzidine	µg/kg	dw										78	33	11,000	471	77
Pesticides/Polychlorinated Biphenyls																
alpha-BHC	µg/kg	dw	10	1.08	13.0	3.90	2.34	3.71	1.17	2.01	3.92	50	1.0	1.1	1.06	1.07
beta-BHC	µg/kg	dw	9	1.48	9.71	2.96	2.00	2.63	0.88	2.62	7.11	51	1.0	1.1	1.07	1.07
delta-BHC	µg/kg	dw	13	1.00	4.84	2.03	1.87	1.05	0.29	1.65	3.64	5	1.0	1.01	1.01	1.0
gamma-BHC (Lindane)	µg/kg	dw	1	4.24	4.24	4.24	4.24					52	1.0	1.1	1.05	1.07
Aldrin	µg/kg	dw	3	1.57	3.52	2.35	1.95	1.03	0.60	1.47		51	1.0	6.11	1.33	1.08
alpha-Chlordane	µg/kg	dw	12	1.15	14.8	3.79	2.14	4.07	1.17	2.23	4.89	52	1.0	1.1	1.06	1.07
gamma-Chlordane	µg/kg	dw	19	1.04	50.4	8.72	3.19	12.8	2.95	2.32	5.58	39	1.0	1.1	1.06	1.07
Dieldrin	µg/kg	dw	23	1.27	35.7	7.66	4.15	9.12	1.90	2.25	4.72	40	1.0	1.1	1.06	1.08
Endosulfan I	µg/kg	dw	3	3.64	8.71	6.10	5.94	2.54	1.47	0.28		57	1.0	1.1	1.05	1.06

Table G1-3. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	DETECTS Minimum Detection	DETECTS Maximum Detection	DETECTS Mean	DETECTS Median	DETECTS Standard Deviation	DETECTS Standard Error	DETECTS Skewness	DETECTS Kurtosis	NON-DETECTS N	NON-DETECTS Minimum Detection Limit	NON-DETECTS Maximum Detection Limit	NON-DETECTS Mean	NON-DETECTS Median
Endosulfan II	µg/kg	dw										36	1.0	1.1	1.04	1.05
Endosulfan sulfate	µg/kg	dw	7	3.0	31.4	7.93	4.82	10.4	3.93	2.60	6.81	18	1.0	1.1	1.05	1.05
Endrin	µg/kg	dw	15	1.12	8.40	2.22	1.53	1.85	0.48	3.0	9.92	49	1.0	1.1	1.06	1.07
Endrin aldehyde	µg/kg	dw	5	1.19	3.46	2.48	2.62	0.99	0.44	-0.38	-2.08	54	1.0	1.1	1.06	1.07
Endrin ketone	µg/kg	dw	5	1.0	49	11.2	1.44	21.2	9.46	2.23	4.97	55	1.0	1.1	1.06	1.06
Heptachlor	µg/kg	dw	2	1.72	5.33	3.53	3.53	2.55	1.81			64	1.0	1.1	1.06	1.07
Heptachlor epoxide	µg/kg	dw	22	1.09	51.9	8.54	4.09	12.5	2.66	2.81	7.79	36	1.0	1.1	1.05	1.07
Methoxychlor	µg/kg	dw	4	1.74	4.03	2.81	2.73	1.09	0.55	0.20	-4.11	54	1.0	1.1	1.05	1.06
4,4'-DDD	µg/kg	dw	2	1.30	3.91	2.61	2.61	1.85	1.31			40	1.0	1.1	1.05	1.05
4,4'-DDE	µg/kg	dw	27	1.14	21.4	4.82	2.41	5.33	1.03	1.99	3.38	30	1.0	1.1	1.05	1.06
4,4'-DDT	µg/kg	dw	39	1.21	88.3	10.5	4.20	16.2	2.59	3.38	13.8	10	1.0	1.1	1.04	1.02
Toxaphene	µg/kg	dw										65	1.0	114	103	107
Aroclor 1016	µg/kg	dw										78	50	1,500	102	53.8
Aroclor 1221	µg/kg	dw	3	287	1,550	1,020	1,210	654	377	-1.22		75	50	1,500	104	53.8
Aroclor 1232	µg/kg	dw										78	50	1,500	102	53.8
Aroclor 1242	µg/kg	dw	47	11.8	10,500	734	168	2,010	294	4.36	18.8	31	50	500	72.0	53.5
Aroclor 1248	µg/kg	dw	4	19.0	122	61.1	51.7	44.5	22.2	1.08	1.09	74	50	1,500	105	54.0
Aroclor 1254	µg/kg	dw	54	10.8	1,010	157	67.1	216	29.5	2.25	5.03	24	50	1,500	132	53.7
Aroclor 1260	µg/kg	dw	51	11.3	1,020	117	37.3	191	26.8	3.08	10.7	27	50	500	75.3	53.5
Aroclor 1268	µg/kg	dw	3	19.4	313	119	25.1	168	96.9	1.73		75	50	1,500	104	53.8
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	11	0.20	10.7	2.20	1.10	3.04	0.92	2.57	7.15	4	0.09	0.36	0.16	0.10
Total TCDDs	ng/kg	dw	15	1.16	223	42.4	26.7	57.4	14.8	2.50	7.22					
2,3,7,8-TCDF	ng/kg	dw	15	2.33	268	57.0	26.1	77.8	20.1	1.98	3.43					
Total TCDFs	ng/kg	dw	15	11.3	1,400	378	97.5	471	122	1.39	0.84					
1,2,3,7,8-PeCDD	ng/kg	dw	14	0.13	19.8	4.23	2.06	5.47	1.46	2.11	4.74	1	0.09	0.09	0.09	0.09
Total PeCDDs	ng/kg	dw	14	0.43	154	27.5	11.9	42.1	11.2	2.45	6.45	1	0.1	0.1	0.10	0.10
1,2,3,7,8-PeCDF	ng/kg	dw	15	0.99	67.7	17.5	10.4	21.2	5.46	1.51	1.34					
2,3,4,7,8-PeCDF	ng/kg	dw	15	0.58	231	46.1	16.5	66.2	17.1	1.91	3.58					
Total PeCDFs	ng/kg	dw	15	3.48	758	205	143	234	60.4	1.20	0.70					
1,2,3,4,7,8-HxCDD	ng/kg	dw	15	0.15	8.32	2.13	1.08	2.42	0.63	1.61	2.11					
1,2,3,6,7,8-HxCDD	ng/kg	dw	15	0.45	85.6	12.4	4.07	22.7	5.86	2.80	8.28					
1,2,3,7,8,9-HxCDD	ng/kg	dw	15	0.29	51.0	7.99	2.71	13.5	3.48	2.72	7.90					
Total HxCDDs	ng/kg	dw	15	2.32	942	109	22.0	242	62.4	3.35	11.8					
1,2,3,4,7,8-HxCDF	ng/kg	dw	15	1.85	97.1	27.1	16.1	31.1	8.03	1.25	0.41					
1,2,3,6,7,8-HxCDF	ng/kg	dw	15	0.54	34.0	7.47	4.03	9.08	2.34	2.03	4.66					
1,2,3,7,8,9-HxCDF	ng/kg	dw	9	0.33	7.44	2.02	1.21	2.22	0.74	2.13	5.18	6	0.1	1.1	0.35	0.19
2,3,4,6,7,8-HxCDF	ng/kg	dw	15	0.13	13.5	3.57	2.03	3.83	0.99	1.42	1.83					
Total HxCDFs	ng/kg	dw	15	4.80	369	107	46.5	121	31.1	1.12	0.09					
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	15	4.44	1,430	160	21.3	368	95.0	3.36	11.9					
Total HpCDDs	ng/kg	dw	15	7.74	3,630	374	40.5	930	240	3.51	12.8					
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	14	3.89	240	51.5	20.2	68.4	18.3	1.98	3.75	1	7.8	7.8	7.8	7.8
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	15	0.70	28.8	9.49	4.08	10.2	2.64	1.01	-0.47					
Total HpCDFs	ng/kg	dw	15	9.03	820	134	43.4	218	56.4	2.59	7.20					
OCDD	ng/kg	dw	15	19.7	9,260	1,080	136	2,440	629	3.11	10.3					
OCDF	ng/kg	dw	15	6.61	604	142	46.4	174	45.0	1.53	2.18					

Table G1-4. Summary Statistics for Lake Sediment Samples Collected by Honeywell/Exponent in 2000 (15 to 30 cm depth)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Total organic carbon	%	dw	58	0.99	15.3	7.25	7.54	2.6	0.34	0.02	0.96					
Total solids	%	dw	58	21	79.5	51.3	53.1	13.9	1.83	0.03	-0.34					
Percent clay	%	dw	58	2	24	10.0	8.5	5.6	0.74	0.89	0.12					
Percent silt	%	dw	58	5	90	48.2	46	22.3	2.93	-0.13	-0.68					
Percent sand	%	dw	58	3	93	41.8	41	23.6	3.10	0.42	-0.41					
Total Metals and Cyanide																
Aluminum	mg/kg	dw	77	821	17,200	4,610	3,910	3,110	355	1.30	2.62					
Antimony	mg/kg	dw	40	0.25	9.1	1.52	0.79	2.0	0.32	2.68	7.00	37	0.24	0.9	0.41	0.36
Arsenic	mg/kg	dw	72	0.51	39.7	6.78	4.75	7.01	0.83	2.23	6.55	5	0.34	0.42	0.40	0.41
Barium	mg/kg	dw	77	27.8	22,600	696	120	2,620	298	7.94	66.7					
Beryllium	mg/kg	dw	76	0.03	0.93	0.34	0.33	0.19	0.02	0.71	0.27	1	0.03	0.03	0.03	0.03
Cadmium	mg/kg	dw	61	4.9E-02	42	3.80	1.30	6.80	0.87	3.74	17.10	16	0.04	0.10	0.06	0.05
Calcium	mg/kg	dw	77	49,000	394,000	256,000	272,000	80,600	9,190	-0.76	-0.06					
Chromium	mg/kg	dw	77	2.3	4,950	283	25.9	795	90.7	4.06	18.1					
Cobalt	mg/kg	dw	75	0.23	147	10.8	2.8	24.3	2.81	3.78	15.9					
Copper	mg/kg	dw	77	1.6	446	76.8	41.9	94.6	10.78	1.92	3.67					
Cyanide	mg/kg	dw	19	1.2	13	4.06	3.3	3.38	0.78	1.76	2.78	58	0.63	1.9	1.02	0.94
Iron	mg/kg	dw	77	1,400	49,400	10,700	7,030	10,100	1,150	1.73	2.97					
Lead	mg/kg	dw	77	0.39	2,050	126	37	271	30.9	5.24	34.2					
Magnesium	mg/kg	dw	77	2,250	48,100	10,300	7,190	8,980	1,020	2.03	4.66					
Manganese	mg/kg	dw	77	114	1,060	294	248	176	20.0	2.10	5.34					
Total Mercury	mg/kg	dw	60	6.1E-02	55	6.23	2.85	10.3	1.33	2.99	9.94	17	0.04	0.14	0.06	0.05
Nickel	mg/kg	dw	77	2.1	1,610	96.3	20.2	261	29.7	4.09	18.0					
Potassium	mg/kg	dw	74	35.2	3,830	977	705	937	109	1.33	1.30	3	10.4	12.7	11.7	11.9
Selenium	mg/kg	dw	47	0.64	5.4	1.49	1.1	0.97	0.14	2.16	5.15	30	0.47	1.80	0.88	0.75
Silver	mg/kg	dw	41	0.14	8.7	2.14	1.2	2.15	0.34	1.31	1.37	36	0.10	0.36	0.16	0.14
Sodium	mg/kg	dw	77	857	17,600	4,840	3,180	3,930	448	1.25	0.93					
Thallium	mg/kg	dw	3	1.2	2.1	1.53	1.3	0.49	0.28	1.652		74	0.62	2.30	1.05	0.99
Vanadium	mg/kg	dw	77	1.6	304	24.6	9.8	47.7	5.44	3.91	17.4					
Zinc	mg/kg	dw	77	8.2	2,260	154	74.1	273	31.14	6.27	47.3					
Volatile Organic Compounds																
Benzene	µg/kg	dw	48	3.3	180,000	5,550	375	25,900	3,750	6.74	46.2	9	4	36	9.37	6.4
Toluene	µg/kg	dw	30	5.5	37,000	4,080	2,000	7,080	1,290	3.73	16.6	27	3	22,000	1,770	8.5
Ethylbenzene	µg/kg	dw	32	2	13,000	1,820	1,100	2,690	476	2.79	9.27	25	4	22,000	1,910	9.6
Styrene	µg/kg	dw	14	110	7,000	2,540	1,600	2,310	616	0.75	-0.90	43	3	22,000	1,920	13
Xylene(m,p)	µg/kg	dw	17	6.6	67,000	11,000	36	20,400	4,940	1.90	2.88	7	6.3	9.6	7.59	7.4
Xylene(o)	µg/kg	dw	17	3.9	19,000	3,170	60	5,920	1,440	2.00	3.13	7	6.3	9.6	7.59	7.4
Xylene (Total)	µg/kg	dw	26	12	270,000	29,400	8,150	57,700	11,300	3.40	12.8	7	4	22,000	6,290	4
Chlorobenzene	µg/kg	dw	46	1.7	310,000	38,200	1,300	82,500	12,200	2.36	4.54	11	4	1,800	172	7.4
1,2-Dichlorobenzene	µg/kg	dw	22	70	200,000	14,400	1,600	42,200	9,010	4.42	20.1	55	33	3,200	290	67
1,3-Dichlorobenzene	µg/kg	dw	14	79	7,000	1,820	420	2,200	588	1.16	0.65	63	33	6,100	370	69
1,4-Dichlorobenzene	µg/kg	dw	35	76	460,000	24,700	1,900	79,800	13,500	5.11	27.9	42	48	3,200	270	64
1,2,4-Trichlorobenzene	µg/kg	dw	12	45	19,000	3,910	1,250	6,310	1,820	1.95	2.71	65	33	3,200	311	69
Chloromethane	µg/kg	dw										57	6.2	45,000	4,540	29
Bromomethane	µg/kg	dw										57	6.2	45,000	4,540	29
Chloroethane	µg/kg	dw										57	6.2	45,000	4,540	29
Methylene chloride	µg/kg	dw	4	2,400	13,000	6,980	6,250	4,950	2,470	0.49	-2.82	53	4	45,000	3,950	19

Table G1-4. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
1,1-Dichloroethane	µg/kg	dw	6	7.4	1,800	311	13.8	729	298	2.45	6.0	51	3	22,000	2,570	26
Chloroform	µg/kg	dw										57	3	22,000	2,340	25
1,2-Dichloroethane	µg/kg	dw										57	3	22,000	2,340	25
1,1,1-Trichloroethane	µg/kg	dw										57	3	22,000	2,340	25
Carbon tetrachloride	µg/kg	dw										54	3	22,000	2,440	25
Bromodichloromethane	µg/kg	dw										57	3	22,000	2,440	25
1,2-Dichloropropane	µg/kg	dw										57	3	22,000	2,440	25
Dibromochloromethane	µg/kg	dw										54	3	22,000	2,470	25
1,1,2-Trichloroethane	µg/kg	dw										57	3	22,000	2,340	25
Bromoform	µg/kg	dw										57	3	22,000	2,340	25
1,1,2,2-Tetrachloroethane	µg/kg	dw										57	3	22,000	2,340	25
Vinyl chloride	µg/kg	dw										57	6.2	45,000	4,540	29
1,1-Dichloroethene	µg/kg	dw										57	3	22,000	2,340	25
cis-1,2-Dichloroethene	µg/kg	dw	1	6	6	6.0	6					56	3	22,000	2,380	25
trans-1,2-Dichloroethene	µg/kg	dw										57	3	22,000	2,340	25
cis-1,3-Dichloropropene	µg/kg	dw										57	3	22,000	2,340	25
trans-1,3-Dichloropropene	µg/kg	dw										49	3	22,000	1,660	19
Trichloroethene	µg/kg	dw										57	3	22,000	2,340	25
Tetrachloroethene	µg/kg	dw										57	3	22,000	2,340	25
Acetone	µg/kg	dw	12	9	8,000	821	210	2,260	654	3.44	11.9	28	14	7,400	1,150	100
2-Butanone	µg/kg	dw	24	2	230	48.2	26	56.8	11.6	2.01	4.09	19	12	45,000	5,990	120
2-Hexanone	µg/kg	dw										57	7	45,000	4,680	50
4-Methyl-2-pentanone	µg/kg	dw	1	5.1	5.1	5.1	5.1					56	7	45,000	4,760	50
Carbon disulfide	µg/kg	dw	29	1	4,400	203	10	837	155	4.89	24.7	28	4	22,000	4,650	2,850
Semivolatile Organic Compounds																
Hexachlorobenzene	µg/kg	dw	2	260	300	280	280	28.3	20			75	33	6,100	453	74
Hexachlorobenzene (GC/ECD)	µg/kg	dw	46	1.16	2,630	148	12.2	431	63.5	4.81	25.7	23	1	1.09	1.05	1.06
Benzyl Alcohol	µg/kg	dw										77	170	32,000	2,300	380
2-Chloronaphthalene	µg/kg	dw										77	33	6,100	444	74
Naphthalene	µg/kg	dw	42	65	560,000	50,500	19,500	92,400	14,300	4.31	23.1	35	48	930	96.4	60
Acenaphthylene	µg/kg	dw	25	59	6,100	1,040	650	1,350	271	2.65	7.89	52	33	6,100	534	68
Acenaphthene	µg/kg	dw	18	130	7,700	1,620	620	2,120	500	1.85	3.03	59	33	6,100	504	71
Fluorene	µg/kg	dw	28	51	42,000	3,490	585	8,150	1,540	4.24	19.8	49	33	6,100	462	67
Phenanthrene	µg/kg	dw	51	46	42,000	5,220	1,400	9,180	1,290	2.73	7.23	26	54	6,100	310	60
Anthracene	µg/kg	dw	39	74	18,000	2,440	870	3,970	636	2.65	7.14	38	54	6,100	550	66
2-Methylnaphthalene	µg/kg	dw	34	47	39,000	6,140	4,600	7,510	1,290	2.77	10.6	43	33	930	102	63
Fluoranthene	µg/kg	dw	54	80	34,000	4,540	1,300	7,490	1,020	2.67	7.02	23	54	6,100	356	59
Pyrene	µg/kg	dw	49	73	25,000	3,760	970	5,640	806	2.24	4.90	28	54	6,100	562	61
Benz(a)anthracene	.g/kg	dw	42	55	14,000	2,250	430	3,510	541	2.26	4.88	35	54	6,100	665	68
Chrysene	µg/kg	dw	44	63	14,000	2,190	560	3,300	497	2.10	4.01	33	54	6,100	698	63
Benzo(b)fluoranthene	µg/kg	dw	40	56	9,400	1,550	605	2,170	343	2.07	4.07	37	54	6,100	632	68
Benzo(k)fluoranthene	µg/kg	dw	38	49	11,000	1,780	770	2,560	416	2.15	4.48	39	33	6,100	603	68
Benzo(a)pyrene	µg/kg	dw	38	63	12,000	2,000	930	2,730	443	2.05	4.18	39	54	6,100	604	68
Indeno(1,2,3-cd)pyrene	µg/kg	dw	36	39	7,400	1,210	610	1,640	273	2.18	5.05	41	33	6,100	580	74
Dibenz(a,h)anthracene	µg/kg	dw	21	41	2,700	652	270	780	170	1.57	1.53	56	33	6,100	538	72
Benzo(g,h,i)perylene	µg/kg	dw	37	44	7,300	1,250	770	1,640	270	2.10	4.49	40	33	6,100	590	71
Phenol	µg/kg	dw	17	210	8,700	1,810	930	2,100	510	2.43	7.03	60	33	6,100	476	69
2-Methylphenol	µg/kg	dw	4	40	410	223	220	172	85.87	0.05	-3.74	73	33	6,100	465	76
4-Methylphenol	µg/kg	dw	9	77	3,000	960	560	1,030	345	1.19	0.29	68	33	6,100	457	74
2,4-Dimethylphenol	µg/kg	dw										77	170	32,000	2,300	380
2-Chlorophenol	µg/kg	dw	1	230	230	230	230					76	33	6,100	449	74

Table G1-2. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
1,1-Dichloroethane	µg/kg	dw	1	39	39	39	39					5	5.0	3,200	752	17
Chloroform	µg/kg	dw										6	5.0	3,200	633	28
1,2-Dichloroethane	µg/kg	dw	1	11	11	11	11					5	5.0	3,200	756	39
1,1,1-Trichloroethane	µg/kg	dw										6	5.0	3,200	633	28
Carbon tetrachloride	µg/kg	dw										5	6.0	3,200	758	39
Bromodichloromethane	µg/kg	dw										6	5.0	3,200	633	28
1,2-Dichloropropane	µg/kg	dw										6	5.0	3,200	633	28
Dibromochloromethane	µg/kg	dw										6	5.0	3,200	633	28
1,1,2-Trichloroethane	µg/kg	dw										6	5.0	3,200	633	28
Bromoform	µg/kg	dw										6	5.0	3,200	633	28
1,1,2,2-Tetrachloroethane	µg/kg	dw										6	5.0	3,200	633	28
Vinyl chloride	µg/kg	dw										6	11	6,500	1,280	36
1,1-Dichloroethene	µg/kg	dw										6	5.0	3,200	633	28
cis-1,2-Dichloroethene	µg/kg	dw	1	1.0	1.0	1.0	1.0					5	5.0	3,200	758	39
trans-1,2-Dichloroethene	µg/kg	dw										6	5.0	3,200	633	28
cis-1,3-Dichloropropene	µg/kg	dw										6	5.0	3,200	633	28
trans-1,3-Dichloropropene	µg/kg	dw										6	5.0	3,200	633	28
Trichloroethene	µg/kg	dw	1	4.0	4.0	4.0	4.0					5	5.0	3,200	758	39
Tetrachloroethene	µg/kg	dw	1	2.0	2.0	2.0	2.0					5	5.0	3,200	758	39
Acetone	µg/kg	dw	1	17	17	17	17					3	78	170	109	80
2-Butanone	µg/kg	dw	4	3.0	33	12.5	7.0	14.0	7.01	1.73	2.93					
2-Hexanone	µg/kg	dw										6	11	6,500	1,290	56
4-Methyl-2-pentanone	µg/kg	dw										6	11	6,500	1,290	56
Carbon disulfide	µg/kg	dw	1	15	15	15	15					5	5.0	3,200	765	78
Semivolatile Organic Compounds																
Hexachlorobenzene	µg/kg	dw										12	51	230,000	19,300	63
Hexachlorobenzene (GC/ECD)	µg/kg	dw	7	2.1	247	60.1	16.6	92.9	35.1	1.78	2.56	3	1.02	1.08	1.05	1.06
Benzyl Alcohol	µg/kg	dw										12	260	1,200,000	101,000	325
2-Chloronaphthalene	µg/kg	dw										12	51	230,000	19,300	63
Naphthalene	µg/kg	dw	5	260	26,000,000	5,210,000	3,100	11,600,000	5,200,000	2.24	5.0	7	55	72	62	58
Acenaphthylene	µg/kg	dw	1	100	100	100	100					11	51	230,000	21,000	59
Acenaphthene	µg/kg	dw	1	300	300	300	300					11	51	230,000	21,000	59
Fluorene	µg/kg	dw	1	390	390	390	390					11	51	230,000	21,000	59
Phenanthrene	µg/kg	dw	6	93	630,000	105,000	195	257,000	105,000	2.45	6.0	6	51	660	161	65
Anthracene	µg/kg	dw	3	54	120	83	75	34	19	1.01		9	51	230,000	25,700	59
2-Methylnaphthalene	µg/kg	dw	3	760	2,800,000	934,000	1500	1,620,000	933,000	1.73		9	51	72	61.6	58
Fluoranthene	µg/kg	dw	7	72	350	236	260	104	39	-0.68	-0.74	5	51	230,000	46,200	72
Pyrene	µg/kg	dw	7	64	360	198	200	96	36	0.38	0.46	5	51	230,000	46,200	72
Benz(a)anthracene	g/kg	dw	5	74	260	137	110	72	32	1.78	3.63	7	51	230,000	33,000	72
Chrysene	µg/kg	dw	6	64	270	151	145	71	29	0.79	1.04	6	51	230,000	38,500	72
Benzo(b)fluoranthene	µg/kg	dw	5	100	190	136	120	35	16	1.02	0.55	7	51	230,000	33,000	72
Benzo(k)fluoranthene	µg/kg	dw	6	69	210	125	115	48	20	1.17	2.12	6	51	230,000	38,000	72
Benzo(a)pyrene	µg/kg	dw	7	58	270	129	120	70	27	1.47	2.88	5	51	230,000	46,200	72
Indeno(1,2,3-cd)pyrene	µg/kg	dw	5	74	140	101	82	31	14	0.63	-2.93	7	51	230,000	33,000	72
Dibenz(a,h)anthracene	µg/kg	dw	1	60	60	60	60					11	51	230,000	21,000	67
Benzo(g,h,i)perylene	µg/kg	dw	5	81	160	109	89.0	34.6	15.5	0.98	-1.0	7	51	230,000	33,000	72
Phenol	µg/kg	dw	2	230	510	370	370	198	140			10	55	230,000	23,000	66
2-Methylphenol	µg/kg	dw										12	51	230,000	19,300	63
4-Methylphenol	µg/kg	dw	1	840	840	840	840					11	51	230,000	21,000	59
2,4-Dimethylphenol	µg/kg	dw										12	260	1,200,000	101,000	325
2-Chlorophenol	µg/kg	dw										12	51	230,000	19,300	63
2,4-Dichlorophenol	µg/kg	dw										12	260	1,200,000	101,000	325
4-Chloro-3-methylphenol	µg/kg	dw										12	260	1,200,000	101,000	325

Table G1-4. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	DETECTS Minimum Detection	DETECTS Maximum Detection	DETECTS Mean	DETECTS Median	DETECTS Standard Deviation	DETECTS Standard Error	DETECTS Skewness	DETECTS Kurtosis	NON-DETECTS N	NON-DETECTS Minimum Detection Limit	NON-DETECTS Maximum Detection Limit	NON-DETECTS Mean	NON-DETECTS Median
2,4-Dichlorophenol	µg/kg	dw										77	170	32,000	2,300	380
4-Chloro-3-methylphenol	µg/kg	dw										77	170	32,000	2,300	380
2,4,6-Trichlorophenol	µg/kg	dw										77	170	32,000	2,300	380
2,4,5-Trichlorophenol	µg/kg	dw										77	170	32,000	2,300	380
Pentachlorophenol	µg/kg	dw										76	850	160,000	11,400	1,900
2-Nitrophenol	µg/kg	dw										77	170	32,000	2,300	380
4-Nitrophenol	µg/kg	dw										77	850	160,000	11,500	1,900
2,4-Dinitrophenol	µg/kg	dw										77	850	160,000	11,500	1,900
2-Methyl-4,6-dinitrophenol	µg/kg	dw										77	850	160,000	11,500	1,900
Hexachloroethane	µg/kg	dw										77	33	6,100	444	74
Hexachlorobutadiene	µg/kg	dw										77	33	6,100	444	74
Hexachlorocyclopentadiene	µg/kg	dw										73	170	32,000	2,270	370
Bis(2-chloroethyl)ether	µg/kg	dw										77	33	6,100	444	74
4-Chlorophenyl-phenyl ether	µg/kg	dw										77	33	6,100	444	74
4-Bromophenyl-phenyl ether	µg/kg	dw										77	33	6,100	444	74
Bis(2-chloroethoxy)methane	µg/kg	dw										77	33	6,100	444	74
2,2'-Oxybis(1-chloropropane)	µg/kg	dw										77	33	6,100	444	74
Dimethyl phthalate	µg/kg	dw										77	33	6,100	444	74
Diethyl phthalate	µg/kg	dw										77	33	6,100	444	74
Di-n-butyl phthalate	µg/kg	dw	6	49	120	79.5	76	24.5	10.0	0.73	0.78	71	33	6,100	479	78
Butylbenzyl phthalate	µg/kg	dw										77	33	6,100	444	74
Bis(2-ethylhexyl)phthalate	µg/kg	dw	33	41	5,500	1,170	770	1,260	219	1.72	3.27	44	33	6,100	671	98
Di-n-octyl phthalate	µg/kg	dw										77	33	6,100	444	74
Isophorone	µg/kg	dw										77	33	6,100	444	74
Dibenzofuran	µg/kg	dw	20	79	11,000	2,170	790	2,970	665	1.97	3.35	57	33	6,100	421	67
Carbazole	µg/kg	dw	13	48	2,600	651	190	883	245	1.44	0.65	64	33	6,100	482	74
Nitrobenzene	µg/kg	dw										77	33	6,100	444	74
N-nitroso-di-n-propylamine	µg/kg	dw	1	99	99	99	99					76	33	6,100	449	74
2-Nitroaniline	µg/kg	dw										77	67	12,000	895	150
3-Nitroaniline	µg/kg	dw										75	850	160,000	11,700	1,900
4-Nitroaniline	µg/kg	dw										77	850	160,000	11,500	1,900
2,6-Dinitrotoluene	µg/kg	dw										77	170	32,000	2,300	380
2,4-Dinitrotoluene	µg/kg	dw										77	170	32,000	2,300	380
N-Nitrosodiphenylamine	µg/kg	dw	1	110	110	110	110					76	33	6,100	448	73.5
N-Nitrosodimethylamine	µg/kg	dw										77	170	32,000	2,300	380
4-Chloroaniline	µg/kg	dw	3	100	440	227	140	186	107	1.64		72	33	6,100	469	73.5
3,3-Dichlorobenzidine	µg/kg	dw										77	33	6,100	444	74
Pesticides/Polychlorinated Biphenyls																
alpha-BHC	µg/kg	dw	15	1.08	7.55	2.27	1.50	1.72	0.44	2.41	6.28	41	1.0	1.11	1.05	1.06
beta-BHC	µg/kg	dw	9	1.28	6.25	3.38	3.90	1.61	0.54	0.34	-0.49	48	1.0	1.11	1.05	1.06
delta-BHC	µg/kg	dw	11	1.19	3.41	2.13	2.11	0.65	0.20	0.49	0.49	9	1.0	1.05	1.02	1.00
gamma-BHC (Lindane)	µg/kg	dw										47	1.0	1.11	1.05	1.06
Aldrin	µg/kg	dw	1	1.9	1.9	1.9	1.9					49	1.0	1.09	1.05	1.06
alpha-Chlordane	µg/kg	dw	13	1.46	7.89	3.57	2.79	2.31	0.64	1.09	-0.25	47	1.0	1.11	1.05	1.06
gamma-Chlordane	µg/kg	dw	21	1.13	40	8.35	4.78	9.44	2.06	2.29	5.74	38	1.0	1.11	1.05	1.06
Dieldrin	µg/kg	dw	29	1.16	69.6	12.0	5.06	15.0	2.78	2.44	7.10	32	1.0	1.09	1.04	1.06
Endosulfan I	µg/kg	dw	7	1.13	9.05	4.27	4.22	2.81	1.06	0.68	-0.26	46	1.0	1.11	1.05	1.06
Endosulfan II	µg/kg	dw										33	1.0	1.11	1.04	1.04
Endosulfan sulfate	µg/kg	dw	10	1.15	10	4.30	3.23	2.59	0.82	1.19	1.46	16	1.0	1.09	1.05	1.06
Endrin	µg/kg	dw	7	1.06	6.14	2.27	1.24	1.88	0.71	1.85	3.26	47	1.0	1.11	1.05	1.06
Endrin aldehyde	µg/kg	dw	4	1.37	3.42	2.07	1.75	0.94	0.47	1.51	1.98	49	1.0	1.11	1.05	1.06

Table G1-4. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Endrin ketone	µg/kg	dw	2	1.15	1.84	1.50	1.50	0.49	0.35			51	1.0	1.11	1.05	1.06
Heptachlor	µg/kg	dw	2	2.04	3.9	2.97	2.97	1.32	0.93			60	1.0	1.09	1.05	1.06
Heptachlor epoxide	µg/kg	dw	15	1.26	40	9.10	3.88	10.7	2.76	1.97	4.23	43	1.0	1.11	1.05	1.06
Methoxychlor	µg/kg	dw	7	1.1	12	5.13	4.25	4.27	1.61	0.58	-1.12	44	1.0	1.11	1.05	1.06
4,4'-DDD	µg/kg	dw	2	3.85	7	5.43	5.43	2.23	1.58			35	1.0	1.11	1.05	1.06
4,4'-DDE	µg/kg	dw	20	1.08	34	7.30	3.61	8.25	1.84	2.13	5.04	33	1.0	1.09	1.05	1.06
4,4'-DDT	µg/kg	dw	26	1.38	80	14.9	7.79	17.9	3.51	2.32	6.29	18	1.0	1.09	1.04	1.05
Toxaphene	µg/kg	dw										62	1.0	111	102	106
Aroclor 1016	µg/kg	dw										77	50	1,000	104	53.5
Aroclor 1221	µg/kg	dw	5	435	2,390	1,200	1,240	798	357	0.75	3.5E-03	72	50	1,000	108	53.5
Aroclor 1232	µg/kg	dw										77	50	1,000	104	53.5
Aroclor 1242	µg/kg	dw	43	14.2	4,160	643	280	887	135	2.40	5.96	34	50	540	71.2	53.2
Aroclor 1248	µg/kg	dw	2	94.6	170	132	132	53.3	37.7			75	50	1,000	106	53.5
Aroclor 1254	µg/kg	dw	41	17.5	2,480	351	128	510	79.7	2.48	7.08	36	12	1,000	117	53.3
Aroclor 1260	µg/kg	dw	42	11.9	878	146.7	76.7	191	29.5	2.54	6.65	35	50	540	96.9	53.7
Aroclor 1268	µg/kg	dw	4	19.1	58	33.4	28.2	17.0	8.51	1.58	2.85	73	50	1,000	107	53.5
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	8	1.53	11.8	4.32	2.41	4.13	1.46	1.42	0.25	7	0.09	0.15	0.10	0.10
Total TCDDs	ng/kg	dw	15	0.22	130	35.8	12.7	45.6	11.8	1.24	0.17					
2,3,7,8-TCDF	ng/kg	dw	15	0.11	1,050	132	28.6	268	69.2	3.26	11.4					
Total TCDFs	ng/kg	dw	15	0.81	9,990	1,070	336	2,520	650	3.62	13.6					
1,2,3,7,8-PeCDD	ng/kg	dw	12	0.11	26.4	7.75	5.41	8.09	2.33	1.49	1.80	3	0.09	0.1	0.10	0.1
Total PeCDDs	ng/kg	dw	13	0.11	225	45.9	17.4	68.6	19.0	2.01	3.52	2	0.1	0.1	0.10	0.1
1,2,3,7,8-PeCDF	ng/kg	dw	15	0.14	130	27.7	13.0	36.2	9.35	1.83	3.72					
2,3,4,7,8-PeCDF	ng/kg	dw	15	0.13	1,150	130	19.9	298	76.9	3.30	11.4					
Total PeCDFs	ng/kg	dw	15	0.75	3,140	451	226	813	210	2.98	9.57					
1,2,3,4,7,8-HxCDD	ng/kg	dw	11	0.13	20.7	4.71	3.09	5.86	1.77	2.37	6.19	4	0.09	0.10	0.10	0.1
1,2,3,6,7,8-HxCDD	ng/kg	dw	12	0.43	97.8	22.8	6.04	34.9	10.1	1.86	2.11	3	0.09	0.10	0.10	0.1
1,2,3,7,8,9-HxCDD	ng/kg	dw	12	0.28	74.4	15.9	5.78	23.8	6.87	2.01	3.10	3	0.09	0.10	0.10	0.1
Total HxCDDs	ng/kg	dw	14	9.1E-02	1,020	165	28.0	313	83.8	2.27	4.35	1	0.1	0.10	0.10	0.1
1,2,3,4,7,8-HxCDF	ng/kg	dw	12	1.26	193	60.3	50.1	57.5	16.6	1.06	1.11	3	0.17	0.46	0.29	0.2
1,2,3,6,7,8-HxCDF	ng/kg	dw	14	0.11	32.1	11.3	10.7	10.9	2.91	0.84	-0.08	1	0.1	0.10	0.10	0.1
1,2,3,7,8,9-HxCDF	ng/kg	dw	10	0.10	8.36	2.63	2.25	2.47	0.78	1.38	2.57	5	0.09	1.10	0.30	0.1
2,3,4,6,7,8-HxCDF	ng/kg	dw	12	0.15	17.3	7.10	6.11	5.87	1.70	0.60	-0.54	3	0.09	0.10	0.10	0.1
Total HxCDFs	ng/kg	dw	13	0.65	619	217	206	197	54.7	0.65	-0.33	2	0.09	0.10	0.10	0.1
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	11	9.45	1,500	290	35.4	479	144	2.06	3.82	4	0.18	2.30	0.75	0.3
Total HpCDDs	ng/kg	dw	12	4.05	3,780	594	67.3	1,120	323	2.51	6.53	3	0.09	0.10	0.10	0.1
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	14	0.33	453	94.4	61.7	129	34.4	2.06	4.28	1	3	3.0	3.0	3.0
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	13	0.12	68.1	20.7	18.6	20.9	5.81	1.15	0.96	2	0.1	0.10	0.10	0.1
Total HpCDFs	ng/kg	dw	13	0.60	1,350	285	173	406	113	2.07	3.75	2	0.1	0.10	0.10	0.1
OCDD	ng/kg	dw	13	1.69	12,100	1,690	133	3,380	938	2.81	8.56	2	0.54	1.20	0.87	0.9
OCDF	ng/kg	dw	12	4.95	729	311	265	260	75.0	0.43	-1.17	3	0.29	1.20	0.68	0.6

Table G1-5. Summary Statistics for Lake Sediment Samples Collected by Honeywell/Exponent in 2000 (30 to 100 cm depth)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Total organic carbon	%	dw	41	1.39	16.6	7.14	7.02	3.17	0.50	0.25	0.64					
Total solids	%	dw	41	28.2	79	49.5	49.9	13.1	2.05	0.39	-0.42					
Percent clay	%	dw	41	2	23	10.6	9	5.52	0.86	0.36	-0.84					
Percent silt	%	dw	41	6	94	57.6	62	22.0	3.44	-0.55	-0.05					
Percent sand	%	dw	41	1	91	31.9	29	22.8	3.56	0.93	0.78					
Total Metals and Cyanide																
Aluminum	mg/kg	dw	63	990	13,900	5,170	4,680	3,130	394	0.82	0.16					
Antimony	mg/kg	dw	44	0.29	11.1	1.83	1.0	2.39	0.36	2.87	8.54	19	0.24	0.57	0.37	0.35
Arsenic	mg/kg	dw	61	0.41	33.6	8.47	7.40	6.67	0.85	1.64	3.47	2	0.40	0.40	0.40	0.40
Barium	mg/kg	dw	63	20.7	4,760	637	258	971	122	2.53	6.48					
Beryllium	mg/kg	dw	62	3.7E-02	0.86	0.4	0.36	0.21	0.03	0.36	-0.60	1	0.02	0.02	0.02	0.02
Cadmium	mg/kg	dw	52	7.8E-02	88.5	9.22	3.10	14.9	2.07	3.36	15.1	11	0.04	0.05	0.05	0.05
Calcium	mg/kg	dw	63	40,700	444,000	252,000	277,000	77,500	9,770	-0.51	0.40					
Chromium	mg/kg	dw	63	2.5	6,310	486	43.9	1,240	156	3.58	13.0					
Cobalt	mg/kg	dw	62	0.17	232	13.0	3.35	35.0	4.45	4.90	27.0					
Copper	mg/kg	dw	63	1.8	753	127	57.7	162	20.4	2.11	4.38					
Cyanide	mg/kg	dw	24	1.1	14	4.9	4.35	3.44	0.70	1.13	0.75	38	0.63	1.80	1.02	0.95
Iron	mg/kg	dw	63	2,040	60,900	11,980	6,700	13,200	1,660	2.47	6.47					
Lead	mg/kg	dw	63	0.51	4,390	337	70.4	687	86.6	4.27	21.4					
Magnesium	mg/kg	dw	63	2,430	32,600	10,700	8,430	7,320	922	1.19	0.60					
Manganese	mg/kg	dw	63	94	1,450	299	242	220	27.8	3.10	12.3					
Total Mercury	mg/kg	dw	57	0.08	48.6	10.3	4.1	13.0	1.72	1.76	2.52	6	0.04	0.05	0.05	0.05
Nickel	mg/kg	dw	63	2	2,020	129	34.4	330	41.6	4.26	19.8					
Potassium	mg/kg	dw	61	49.3	3,940	1,060	614	1,000	128	1.19	0.34	2	12.7	15.4	14.1	14.1
Selenium	mg/kg	dw	50	0.58	7.8	1.83	1.3	1.46	0.21	2.51	6.28	13	0.47	1.30	0.94	0.97
Silver	mg/kg	dw	42	0.17	14.7	3.54	2.25	3.79	0.58	1.26	0.90	21	0.10	0.21	0.15	0.14
Sodium	mg/kg	dw	63	1,720	20,000	7,120	5,380	4,790	603	0.98	-0.10					
Thallium	mg/kg	dw	7	0.89	2.3	1.48	1.40	0.51	0.19	0.49	-0.84	56	0.65	1.70	1.07	1.0
Vanadium	mg/kg	dw	63	1.8	280	29.1	10.5	56.1	7.07	3.36	11.1					
Zinc	mg/kg	dw	63	12.9	1,530	221	116	262	33.0	2.42	8.81					
Volatile Organic Compounds																
Benzene	µg/kg	dw	54	4	270,000	7,640	910	36,600	4,980	7.23	52.8	4	4	33	12.7	6.8
Toluene	µg/kg	dw	39	1	47,000	7,220	2,000	12,700	2,040	2.36	4.66	19	4	60,000	8,410	16
Ethylbenzene	µg/kg	dw	47	1.5	13,000	1,890	550	2,970	433	2.24	5.01	11	4	60,000	14,500	18
Styrene	µg/kg	dw	17	71	15,000	3,480	2,600	3,780	916	1.94	4.70	39	4	60,000	4,910	15
Xylene(m,p)	µg/kg	dw	17	27	89,000	13,800	760	23,600	5,720	2.41	6.25	4	6.3	8.7	7.15	6.8
Xylene(o)	µg/kg	dw	19	1.7	28,000	3,820	190	6,910	1,590	2.74	8.41	2	6.7	8.7	7.7	7.7
Xylene (Total)	µg/kg	dw	31	3	240,000	43,200	13,000	71,000	12,700	1.91	2.42	6	4	60,000	18,800	18
Chlorobenzene	µg/kg	dw	51	1	640,000	48,200	2,900	146,000	20,400	3.75	12.9	7	4	2,300	337	8.7
1,2-Dichlorobenzene	µg/kg	dw	29	46	55,000	7,550	2,200	13,500	2,500	2.70	6.85	34	33	2,600	281	65.5
1,3-Dichlorobenzene	µg/kg	dw	17	38	35,000	2,970	190	8,360	2,030	3.96	16.0	46	33	3,100	490	84.5
1,4-Dichlorobenzene	µg/kg	dw	41	27	120,000	11,400	3,100	22,500	3,510	3.49	14.0	22	43	1,400	188	61.5
1,2,4-Trichlorobenzene	µg/kg	dw	10	160	11,000	3,950	3,800	3,920	1,240	0.59	-0.83	53	33	2,600	387	81
Chloromethane	µg/kg	dw										58	6.3	120,000	8,500	50
Bromomethane	µg/kg	dw										58	6.3	120,000	8,500	50
Chloroethane	µg/kg	dw										58	6.3	120,000	8,500	50
Methylene chloride	µg/kg	dw	5	17	8,000	4,680	6,000	3,080	1,380	-0.90	0.41	53	4	120,000	8,500	46

Table G1-5. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
1,1-Dichloroethane	µg/kg	dw	2	2.7	2.9	2.8	2.8	0.14	0.10			56	4	60,000	4,410	30
Chloroform	µg/kg	dw										58	4	60,000	4,260	27
1,2-Dichloroethane	µg/kg	dw										58	4	60,000	4,260	27
1,1,1-Trichloroethane	µg/kg	dw	1	17	17	17	17					57	4	60,000	4,330	27
Carbon tetrachloride	µg/kg	dw										57	4	60,000	4,330	27
Bromodichloromethane	µg/kg	dw										58	4	60,000	4,260	27
1,2-Dichloropropane	µg/kg	dw	3	2.6	12	7.53	8.0	4.72	2.72	-0.44		55	4	60,000	4,490	27
Dibromochloromethane	µg/kg	dw										55	4	60,000	4,490	33
1,1,2-Trichloroethane	µg/kg	dw	1	5.2	5.2	5.2	5.2					57	4	60,000	4,330	27
Bromoform	µg/kg	dw										58	4	60,000	4,260	27
1,1,2,2-Tetrachloroethane	µg/kg	dw										58	4	60,000	4,260	27
Vinyl chloride	µg/kg	dw	2	4.1	13	8.55	8.55	6.29	4.45			56	6.3	120,000	8,800	52.5
1,1-Dichloroethene	µg/kg	dw										58	4	60,000	4,260	27
cis-1,2-Dichloroethene	µg/kg	dw	7	2.7	57	19.6	10	22.6	8.52	1.22	-0.48	51	4	60,000	4,840	33
trans-1,2-Dichloroethene	µg/kg	dw	2	2.7	2.9	2.8	2.8	0.14	0.10			56	4	60,000	4,410	30
cis-1,3-Dichloropropene	µg/kg	dw										58	4	60,000	4,260	27
trans-1,3-Dichloropropene	µg/kg	dw										52	4	53,000	3,450	26
Trichloroethene	µg/kg	dw	2	2.9	3.3	3.1	3.1	0.28	0.20			56	4	60,000	4,410	30
Tetrachloroethene	µg/kg	dw	1	61	61	61	61					57	4	60,000	4,330	27
Acetone	µg/kg	dw	22	13	980	283	220	281	60.0	1.21	0.72	15	2	6,800	1,620	98
2-Butanone	µg/kg	dw	23	4	290	102	96	81.0	16.9	0.82	0.18	19	13	28,000	4,940	98
2-Hexanone	µg/kg	dw										58	7	120,000	8,580	54
4-Methyl-2-pentanone	µg/kg	dw										58	7	120,000	8,580	54
Carbon disulfide	µg/kg	dw	31	4	3,600	327	18	940	169	2.93	7.25	27	4	60,000	8,650	3,000
Semivolatile Organic Compounds																
Hexachlorobenzene	µg/kg	dw										63	33	3,100	464	84
Hexachlorobenzene (GC/ECD)	µg/kg	dw	42	1.04	981	114	28.5	198	30.5	3.09	10.7	11	1	1.08	1.01	1.0
Benzyl Alcohol	µg/kg	dw										63	170	16,000	2,350	430
2-Chloronaphthalene	µg/kg	dw										63	33	3,100	464	84
Naphthalene	µg/kg	dw	51	59	770,000	51,300	13,000	113,000	15,800	5.39	33.8	12	43	940	134	58.5
Acenaphthylene	µg/kg	dw	36	33	9,200	1,260	590	1,960	327	2.76	7.93	27	33	3,100	600	64
Acenaphthene	µg/kg	dw	26	38	32,000	3,150	645	6,420	1,260	3.93	17.4	37	33	3,100	530	73
Fluorene	µg/kg	dw	36	36	29,000	3,050	670	5,960	993	3.17	10.9	27	43	3,100	557	66
Phenanthrene	µg/kg	dw	52	60	82,000	7,290	2,050	15,600	2,160	3.75	14.9	11	43	1,900	226	58
Anthracene	µg/kg	dw	38	66	22,000	3,110	1,050	5,310	861	2.61	6.53	25	33	3,100	668	70
2-Methylnaphthalene	µg/kg	dw	47	47	53,000	6,920	3,500	10,800	1,570	3.01	10.1	16	41	940	113	57.5
Fluoranthene	µg/kg	dw	48	89	58,000	5,820	2,200	11,400	1,640	3.43	12.1	15	43	3,100	728	64
Pyrene	µg/kg	dw	45	110	43,000	5,020	2,000	9,390	1,400	3.17	9.65	18	43	3,100	722	79
Benz(a)anthracene	.g/kg	dw	39	79	25,000	2,670	950	4,880	781	3.33	12.2	24	43	3,100	685	79
Chrysene	µg/kg	dw	42	61	25,000	2,650	1,050	4,910	757	3.34	11.8	21	43	3,100	775	440
Benzo(b)fluoranthene	µg/kg	dw	35	48	16,000	1,790	720	3,210	543	3.34	12.0	28	33	3,100	672	79
Benzo(k)fluoranthene	µg/kg	dw	35	53	16,000	1,880	700	3,410	577	3.15	10.1	28	33	3,100	672	79
Benzo(a)pyrene	µg/kg	dw	35	67	17,000	2,270	790	4,000	676	2.97	8.53	28	33	3,100	672	79
Indeno(1,2,3-cd)pyrene	µg/kg	dw	29	47	9,500	1,360	530	2,150	399	2.81	7.95	34	33	3,100	584	71.5
Dibenz(a,h)anthracene	µg/kg	dw	20	53	4,600	684	305	1,130	253	2.83	7.94	43	33	3,100	575	73
Benzo(g,h,i)perylene	µg/kg	dw	27	74	8,600	1,509	610	2,290	441	2.51	5.55	36	33	3,100	587	71.5
Phenol	µg/kg	dw	17	160	5,800	2,550	2,300	1,710	414	0.64	-0.29	46	33	2,600	319	74.5
2-Methylphenol	µg/kg	dw	3	45	2,100	737	65	1,180	682	1.73		60	33	3,100	466	84.5
4-Methylphenol	µg/kg	dw	7	58	4,200	1,350	480	1,590	603	1.253	0.25	56	33	3,100	464	84.5

Table G1-5. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	DETECTS Minimum Detection	DETECTS Maximum Detection	DETECTS Mean	DETECTS Median	DETECTS Standard Deviation	DETECTS Standard Error	DETECTS Skewness	DETECTS Kurtosis	NON-DETECTS N	NON-DETECTS Minimum Detection Limit	NON-DETECTS Maximum Detection Limit	NON-DETECTS Mean	NON-DETECTS Median
2,4-Dimethylphenol	µg/kg	dw										63	170	16,000	2,310	430
2-Chlorophenol	µg/kg	dw										63	33	3,100	458	84
2,4-Dichlorophenol	µg/kg	dw										63	170	16,000	2,350	430
4-Chloro-3-methylphenol	µg/kg	dw										63	170	16,000	2,350	430
2,4,6-Trichlorophenol	µg/kg	dw										63	170	16,000	2,350	430
2,4,5-Trichlorophenol	µg/kg	dw										63	170	16,000	2,350	430
Pentachlorophenol	µg/kg	dw										63	850	80,000	11,800	2,200
2-Nitrophenol	µg/kg	dw										63	170	16,000	2,350	430
4-Nitrophenol	µg/kg	dw										63	850	80,000	11,800	2,200
2,4-Dinitrophenol	µg/kg	dw	1	330	330	330	330					62	850	80,000	11,900	2,150
2-Methyl-4,6-dinitrophenol	µg/kg	dw										63	850	80,000	11,800	2,200
Hexachloroethane	µg/kg	dw										63	33	3,100	464	84
Hexachlorobutadiene	µg/kg	dw	1	66	66	66	66					62	33	3,100	471	84.5
Hexachlorocyclopentadiene	µg/kg	dw										61	170	16,000	2,360	420
Bis(2-chloroethyl)ether	µg/kg	dw										63	33	3,100	464	84
4-Chlorophenyl-phenyl ether	µg/kg	dw										63	33	3,100	464	84
4-Bromophenyl-phenyl ether	µg/kg	dw										63	33	3,100	464	84
Bis(2-chloroethoxy)methane	µg/kg	dw										63	33	3,100	464	84
2,2'-Oxybis(1-chloropropane)	µg/kg	dw										63	33	3,100	464	84
Dimethyl phthalate	µg/kg	dw										63	33	3,100	464	84
Diethyl phthalate	µg/kg	dw										63	33	3,100	464	84
Di-n-butyl phthalate	µg/kg	dw	7	32	210	96	85	58.4	22.1	1.30	2.34	56	33	3,100	530	125
Butylbenzyl phthalate	µg/kg	dw										63	33	3,100	464	84
Bis(2-ethylhexyl)phthalate	µg/kg	dw	25	80	5,100	1,280	870	1,360	272	1.60	2.08	38	33	3,100	648	107
Di-n-octyl phthalate	µg/kg	dw										63	33	3,100	464	84
Isophorone	µg/kg	dw	1	340	340	340	340					62	33	3,100	471	84.5
Dibenzofuran	µg/kg	dw	29	68	23,000	2,330	480	4,650	863	3.53	14.3	34	33	3,100	448	69.5
Carbazole	µg/kg	dw	12	83	6,100	1,240	425	1,820	525	2.10	4.40	51	33	3,100	437	73
Nitrobenzene	µg/kg	dw										63	33	3,100	464	84
N-nitroso-di-n-propylamine	µg/kg	dw										63	33	3,100	464	84
2-Nitroaniline	µg/kg	dw										63	67	6,300	946	170
3-Nitroaniline	µg/kg	dw										63	850	80,000	11,900	2,200
4-Nitroaniline	µg/kg	dw										63	850	80,000	11,900	2,200
2,6-Dinitrotoluene	µg/kg	dw										63	170	16,000	2,380	430
2,4-Dinitrotoluene	µg/kg	dw										63	170	16,000	2,380	430
N-Nitrosodiphenylamine	µg/kg	dw										63	33	3,100	464	84
N-Nitrosodimethylamine	µg/kg	dw										63	170	16,000	2,380	430
4-Chloroaniline	µg/kg	dw	3	120	270	170	120	86.6	50.0	1.73		58	33	3,100	498	89.5
3,3-Dichlorobenzidine	µg/kg	dw										63	33	3,100	464	84
Pesticides/Polychlorinated Biphenyls																
alpha-BHC	µg/kg	dw	10	1.39	11.2	4.55	3.66	3.41	1.08	1.10	0.07	29	1.0	1.09	1.02	1.0
beta-BHC	µg/kg	dw	7	1.05	14.6	4.67	3.39	4.56	1.72	2.23	5.34	32	1.0	1.1	1.02	1.0
delta-BHC	µg/kg	dw	7	1.08	6.32	2.72	2.12	1.89	0.72	1.43	1.35	13	1.0	1.09	1.01	1.0
gamma-BHC (Lindane)	µg/kg	dw	1	18.6	18.6	18.6	18.6					42	1.0	1.1	1.02	1.0
Aldrin	µg/kg	dw	1	5.06	5.06	5.06	5.06					38	1.0	49.6	2.62	1.01
alpha-Chlordane	µg/kg	dw	18	1.05	20.6	3.88	2.22	5.05	1.19	2.77	7.55	32	1.0	1.1	1.02	1.0
gamma-Chlordane	µg/kg	dw	16	3.12	43.3	14.1	11.1	10.0	2.50	1.74	4.06	28	1.0	3.81	1.12	1.01
Dieldrin	µg/kg	dw	28	1.05	91.3	16.6	11.2	18.4	3.47	2.83	9.99	22	1.0	1.1	1.03	1.02
Endosulfan I	µg/kg	dw	5	1.25	5.69	3.21	2.70	1.83	0.82	0.51	-1.57	39	1.0	1.1	1.02	1.0

Table G1-5. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Endosulfan II	µg/kg	dw										43	1.0	1.1	1.02	1.0
Endosulfan sulfate	µg/kg	dw	13	1.11	18	6.42	4.24	5.23	1.45	1.19	0.60	18	1.0	1.1	1.04	1.03
Endrin	µg/kg	dw	2	2.02	4.28	3.15	3.15	1.60	1.13			40	1.0	1.1	1.02	1.0
Endrin aldehyde	µg/kg	dw	3	1.58	12	5.20	2.01	5.90	3.40	1.72		41	1.0	1.1	1.02	1.0
Endrin ketone	µg/kg	dw	3	4.07	10.2	6.72	5.88	3.15	1.82	1.11		44	1.0	1.1	1.02	1.0
Heptachlor	µg/kg	dw	5	1.42	14.4	6.06	3.20	5.46	2.44	1.10	-0.17	42	1.0	1.1	1.02	1.0
Heptachlor epoxide	µg/kg	dw	26	1.86	53.7	15.4	11.5	13.9	2.73	1.63	2.46	24	1.0	1.1	1.03	1.0
Methoxychlor	µg/kg	dw	4	1.96	6.3	3.58	3.03	2.07	1.04	0.89	-1.13	41	1.0	1.1	1.02	1.0
4,4'-DDD	µg/kg	dw	3	1.9	12.2	6.10	4.21	5.40	3.12	1.38		32	1.0	1.1	1.02	1.01
4,4'-DDE	µg/kg	dw	27	1.45	38.3	8.45	6.80	7.80	1.50	2.33	7.47	19	1.0	1.1	1.02	1.01
4,4'-DDT	µg/kg	dw	30	1.96	68.5	19.9	15.5	17.0	3.10	1.24	1.13	14	1.0	1.06	1.02	1.01
Toxaphene	µg/kg	dw										46	1.0	110	89.2	100
Aroclor 1016	µg/kg	dw										63	50	1,500	158	52.8
Aroclor 1221	µg/kg	dw	3	766	1,680	1,300	1,460	477	275	-1.33		60	50	1,500	163	53.4
Aroclor 1232	µg/kg	dw										63	50	1,500	158	52.8
Aroclor 1242	µg/kg	dw	43	19.9	17,900	1,160	320	2,830	431	5.26	30.6	20	50	545	108	50.1
Aroclor 1248	µg/kg	dw	6	61.7	5,150	1,220	620	1,950	795	2.33	5.55	57	50	1,500	157	52.8
Aroclor 1254	µg/kg	dw	35	19.7	9,430	583	270	1,580	267	5.47	31.3	28	50	1,500	177	51.1
Aroclor 1260	µg/kg	dw	40	12.7	1,880	228	108	390	61.7	3.27	11.1	23	50	500	101	51.2
Aroclor 1268	µg/kg	dw	4	20.4	376	130	62.8	167	83.7	1.76	3.05	59	50	1,500	165	52.9
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	9	0.71	15.5	7.72	8.01	5.20	1.73	-0.07	-1.20	5	0.10	0.15	0.11	0.10
Total TCDDs	ng/kg	dw	12	0.18	277	68.2	43.6	79.7	23.0	1.76	3.74	2	0.10	0.59	0.35	0.35
2,3,7,8-TCDF	ng/kg	dw	13	0.31	657	145	80.5	195	54.1	1.94	3.50	1	0.10	0.10	0.10	0.10
Total TCDFs	ng/kg	dw	14	1.1	3,330	802	615	1,010	271	1.76	2.58					
1,2,3,7,8-PeCDD	ng/kg	dw	11	0.15	37.5	15.6	17.7	12.8	3.86	0.26	-0.82	3	0.10	0.10	0.10	0.10
Total PeCDDs	ng/kg	dw	10	0.68	371	116	126	110	34.9	1.30	2.51	4	0.10	0.25	0.15	0.12
1,2,3,7,8-PeCDF	ng/kg	dw	12	0.10	214	50.1	27.6	64.6	18.7	1.88	3.27	2	0.10	0.10	0.10	0.10
2,3,4,7,8-PeCDF	ng/kg	dw	13	0.14	563	136	49.9	194	53.7	1.52	0.93	1	0.10	0.10	0.10	0.10
Total PeCDFs	ng/kg	dw	14	0.30	2,290	560	363	722	193	1.65	2.00					
1,2,3,4,7,8-HxCDD	ng/kg	dw	11	0.13	25.4	8.11	9.06	7.69	2.32	0.98	1.25	3	0.10	0.10	0.10	0.10
1,2,3,6,7,8-HxCDD	ng/kg	dw	11	0.40	118	40.2	32.5	39.4	11.9	0.64	-0.49	3	0.10	0.10	0.10	0.10
1,2,3,7,8,9-HxCDD	ng/kg	dw	11	0.38	104	31.5	29.5	31.9	9.61	1.10	1.37	3	0.10	0.10	0.10	0.10
Total HxCDDs	ng/kg	dw	12	0.32	1,100	326	102	386	111	0.84	-0.62	2	0.10	0.36	0.23	0.23
1,2,3,4,7,8-HxCDF	ng/kg	dw	12	0.22	431	90.6	61.1	119	34.4	2.42	6.69	2	0.11	0.20	0.16	0.16
1,2,3,6,7,8-HxCDF	ng/kg	dw	12	0.1	74.7	20.2	16.0	21.1	6.08	1.63	3.49	2	0.10	0.10	0.10	0.10
1,2,3,7,8,9-HxCDF	ng/kg	dw	9	1.32	21	4.86	2.29	6.33	2.11	2.58	6.85	5	0.10	0.15	0.11	0.10
2,3,4,6,7,8-HxCDF	ng/kg	dw	11	0.24	35.4	12.0	12.5	10.3	3.11	1.00	1.56	3	0.10	0.10	0.10	0.10
Total HxCDFs	ng/kg	dw	13	0.27	1,620	418	304	492	137	1.42	1.73	1	0.10	0.10	0.10	0.10
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	10	10.2	1,380	517	410	538	170	0.36	-1.72	4	0.22	1.50	0.59	0.32
Total HpCDDs	ng/kg	dw	10	8.98	2,850	1,100	796	1,180	373	0.38	-1.81	4	0.10	1.70	0.65	0.40
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	9	23.2	762	296	207	261	87.0	0.74	-0.72	5	0.16	2.50	1.07	0.33
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	11	0.31	195	37.6	23.6	53.9	16.3	2.94	9.24	3	0.10	0.10	0.10	0.10
Total HpCDFs	ng/kg	dw	12	0.28	2,710	622	336	816	235	1.74	3.15	2	0.10	0.10	0.10	0.10
OCDD	ng/kg	dw	10	73.5	12,300	3,090	1,280	4,310	1,360	1.51	1.33	4	1.20	4.80	2.30	1.60
OCDF	ng/kg	dw	11	3.6	1,720	511	417	510	154	1.41	2.29	3	0.17	0.36	0.24	0.18

Table G1-6. Summary Statistics for Lake Sediment Samples Collected by Honeywell/Exponent in 2000 (100 to 200 cm depth)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Total organic carbon	%	dw	40	2.92	28.5	7.64	7.26	3.97	0.63	3.83	19.8					
Total solids	%	dw	40	31.8	76.3	51.2	53.8	10.3	1.63	-0.18	-0.25					
Percent clay	%	dw	40	2	38	12.3	10	6.54	1.03	1.71	4.77					
Percent silt	%	dw	40	29	91	64.3	67	16.3	2.57	-0.15	-0.82					
Percent sand	%	dw	40	1	66	23.5	23	15.9	2.51	0.55	-0.21					
Total Metals and Cyanide																
Aluminum	mg/kg	dw	63	1,180	13,300	5,230	4,840	3,050	384	0.78	-0.11					
Antimony	mg/kg	dw	39	0.35	7.3	1.57	0.80	1.91	0.31	2.21	3.69	24	0.29	0.67	0.38	0.35
Arsenic	mg/kg	dw	60	0.44	38.9	9.23	7.35	8.54	1.10	1.64	2.63	3	0.38	0.42	0.40	0.41
Barium	mg/kg	dw	63	20.1	4,120	587	197	903	114	2.57	6.51					
Beryllium	mg/kg	dw	62	3.2E-02	0.81	0.38	0.35	0.19	0.02	0.28	-0.55	1	2.2E-02	2.2E-02	0.02	0.02
Cadmium	mg/kg	dw	46	5.7E-02	47.6	5.47	1.85	10.1	1.49	3.31	11.5	17	4.3E-02	0.18	0.07	0.05
Calcium	mg/kg	dw	63	48,700	344,000	253,000	270,000	72,800	9,170	-1.00	0.25					
Chromium	mg/kg	dw	63	2.7	11,300	487	27	1,820	229	5.10	26.7					
Cobalt	mg/kg	dw	61	0.2	938	27.1	2.9	132	16.8	6.28	41.2					
Copper	mg/kg	dw	63	2.2	546	111	73.4	131	16.5	1.88	3.25					
Cyanide	mg/kg	dw	24	1.5	24	6.24	6.35	4.49	0.92	2.73	10.7	39	0.65	1.6	0.98	0.93
Iron	mg/kg	dw	63	1,710	113,000	13,300	7,990	19,900	2,510	3.84	15.9					
Lead	mg/kg	dw	63	0.54	2,160	159	46	334	42.1	4.49	23.1					
Magnesium	mg/kg	dw	63	2,550	30,800	11,200	10,200	7,080	891	1.00	0.42					
Manganese	mg/kg	dw	63	71.7	3,400	367	247	532	67.1	4.93	25.1					
Total Mercury	mg/kg	dw	53	5.6E-02	87.1	9.59	2	18.8	2.58	2.86	8.12	10	4.3E-02	5.4E-02	0.05	0.05
Nickel	mg/kg	dw	63	2	4,640	174	23.5	744	93.7	5.49	29.7					
Potassium	mg/kg	dw	63	105	2,950	1,060	752	919	116	0.96	-0.43					
Selenium	mg/kg	dw	50	0.67	12.6	2.01	1.45	2.27	0.32	3.61	13.8	13	0.59	1.2	0.87	0.88
Silver	mg/kg	dw	34	0.17	28.5	2.80	1.35	5.05	0.87	4.35	21.3	29	0.12	0.49	0.16	0.14
Sodium	mg/kg	dw	63	1,910	55,000	10,000	6,760	8,240	1,040	2.84	13.2					
Thallium	mg/kg	dw	9	0.85	2.7	1.58	1.50	0.59	0.20	0.91	0.16	54	0.76	3.2	1.09	0.96
Vanadium	mg/kg	dw	63	1.9	512	29.7	10.8	82.0	10.3	5.16	27.1					
Zinc	mg/kg	dw	63	13.5	819	158	99	175	22.1	1.90	3.64					
Volatile Organic Compounds																
Benzene	µg/kg	dw	53	2	140,000	9,780	790	27,400	3,770	3.58	12.9	4	7.4	3,400	866	28.9
Toluene	µg/kg	dw	39	7.4	230,000	13,600	1,100	38,900	6,230	4.89	26.5	18	4	13,000	886	9.35
Ethylbenzene	µg/kg	dw	45	0.7	18,000	2,280	950	3,950	589	2.78	7.90	12	4	13,000	3,310	29
Styrene	µg/kg	dw	20	61	10,000	2,360	1,250	2,580	577	1.63	2.68	37	3	15,000	1,850	22
Xylene(m,p)	µg/kg	dw	14	14	93,000	11,400	1,700	24,700	6,610	3.18	10.7	4	7.4	8.8	8.28	8.45
Xylene(o)	µg/kg	dw	15	5.5	31,000	3,720	500	8,000	2,070	3.23	11.1	3	7.4	8.8	8.27	8.60
Xylene (Total)	µg/kg	dw	32	3	430,000	57,700	5,250	109,000	19,300	2.56	6.13	7	4	13,000	5,360	460
Chlorobenzene	µg/kg	dw	42	2	210,000	16,700	1,090	50,000	7,720	3.45	10.7	15	3	9,100	797	16
1,2-Dichlorobenzene	µg/kg	dw	21	110	24,000	4,800	1,300	6,990	1,530	1.77	2.23	42	33	3,700	379	60.5
1,3-Dichlorobenzene	µg/kg	dw	8	67	2,100	435	180	686	243	2.63	7.06	55	33	3,700	503	83
1,4-Dichlorobenzene	µg/kg	dw	27	64	24,000	4,360	1,600	6,020	1,160	2.16	4.56	36	33	3,700	392	60
1,2,4-Trichlorobenzene	µg/kg	dw	5	210	6,300	2,200	770	2,660	1,190	1.16	-0.05	58	33	3,700	431	77
Chloromethane	µg/kg	dw										57	7	30,000	4,390	61
Bromomethane	µg/kg	dw										57	7	30,000	4,390	61
Chloroethane	µg/kg	dw										57	7	30,000	4,390	61
Methylene chloride	µg/kg	dw	3	350	5,300	3,380	4,500	2,660	1,530	-1.56		54	4	30,000	4,240	49.5

Table G1-6. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
1,1-Dichloroethane	µg/kg	dw										57	3	15,000	2,210	49
Chloroform	µg/kg	dw										57	3	15,000	2,210	49
1,2-Dichloroethane	µg/kg	dw										57	3	15,000	2,210	49
1,1,1-Trichloroethane	µg/kg	dw										57	3	15,000	2,210	49
Carbon tetrachloride	µg/kg	dw										56	3	15,000	2,210	48
Bromodichloromethane	µg/kg	dw										57	3	15,000	2,210	49
1,2-Dichloropropane	µg/kg	dw										57	3	15,000	2,210	49
Dibromochloromethane	µg/kg	dw	1	7,000	7,000	7,000	7,000					55	3	15,000	2,060	49
1,1,2-Trichloroethane	µg/kg	dw										57	3	15,000	2,210	49
Bromoform	µg/kg	dw										57	3	15,000	2,210	49
1,1,2,2-Tetrachloroethane	µg/kg	dw										57	3	15,000	2,210	49
Vinyl chloride	µg/kg	dw										57	7	30,000	4,390	61
1,1-Dichloroethene	µg/kg	dw										57	3	15,000	2,210	49
cis-1,2-Dichloroethene	µg/kg	dw	3	4.2	15	9.73	10	5.40	3.12	-0.22		54	3	15,000	2,330	49.5
trans-1,2-Dichloroethene	µg/kg	dw										57	3	15,000	2,210	49
cis-1,3-Dichloropropene	µg/kg	dw										57	3	15,000	2,210	49
trans-1,3-Dichloropropene	µg/kg	dw										52	3	13,000	1,810	48
Trichloroethene	µg/kg	dw										57	3	15,000	2,210	49
Tetrachloroethene	µg/kg	dw	2	67	120	93.5	93.5	37.5	26.5			55	3	15,000	2,290	49
Acetone	µg/kg	dw	21	10	3,000	479	220	704	154	2.73	8.33	14	15	7,300	1,130	74.5
2-Butanone	µg/kg	dw	24	2.6	360	83.8	49	91.8	18.7	1.54	2.35	13	14	19,000	2,960	100
2-Hexanone	µg/kg	dw	1	4.5	4.5	4.5	4.5					56	7	30,000	4,510	97
4-Methyl-2-pentanone	µg/kg	dw	1	4.5	4.5	4.5	4.5					56	7	30,000	4,630	98.5
Carbon disulfide	µg/kg	dw	29	1	67	19.2	16	16.6	3.08	1.25	1.19	28	13	15,000	4,550	3,450
Semivolatile Organic Compounds																
Hexachlorobenzene	µg/kg	dw	2	91	110	100.5	100.5	13.4	9.50			61	33	3,700	472	86
Hexachlorobenzene (GC/ECD)	µg/kg	dw	31	1.1	356	66.7	36.2	88.8	16.0	2.04	3.85	19	1	1.1	1.02	1.00
Benzyl Alcohol	µg/kg	dw										63	170	19,000	2,360	430
2-Chloronaphthalene	µg/kg	dw										63	33	3,700	458	84
Naphthalene	µg/kg	dw	44	53	1,300,000	111,000	22,000	246,000	37,100	3.52	13.6	19	49	440	81.6	59
Acenaphthylene	µg/kg	dw	30	64	6,000	1,480	1,100	1,470	268	1.87	3.76	33	33	3,700	444	60
Acenaphthene	µg/kg	dw	28	91	25,000	3,920	1,750	5,860	1,110	2.42	6.05	35	49	3,700	408	63
Fluorene	µg/kg	dw	36	120	27,000	4,980	1,650	6,560	1,090	1.84	3.38	27	49	2,000	208	60
Phenanthrene	µg/kg	dw	48	67	71,000	11,500	2,750	17,600	2,540	2.01	3.50	15	49	94	61.7	59
Anthracene	µg/kg	dw	36	100	22,000	4,380	2,500	5,490	914	1.78	2.62	27	49	2,900	322	60
2-Methylnaphthalene	µg/kg	dw	37	94	120,000	15,000	6,200	23,200	3,810	3.02	11.3	26	33	930	130	60
Fluoranthene	µg/kg	dw	46	120	42,000	6,930	2,850	9,540	1,410	2.08	4.11	17	49	2,900	229	59
Pyrene	µg/kg	dw	46	71	36,000	5,940	2,350	7,650	1,130	1.97	4.42	17	49	2,900	382	59
Benz(a)anthracene	g/kg	dw	39	76	13,000	2,930	1,200	3,320	531	1.45	1.38	24	49	3,700	492	60
Chrysene	µg/kg	dw	40	64	14,000	2,990	1,450	3,420	540	1.55	1.92	23	49	3,700	511	61
Benzo(b)fluoranthene	µg/kg	dw	35	110	9,600	1,830	1,100	2,010	339	2.12	5.67	28	49	3,700	443	60.5
Benzo(k)fluoranthene	µg/kg	dw	35	130	9,500	1,930	1,100	2,090	352	1.88	4.08	28	49	3,700	443	60.5
Benzo(a)pyrene	µg/kg	dw	36	75	12,000	2,280	1,750	2,520	420	2.08	5.39	27	49	3,700	457	61
Indeno(1,2,3-cd)pyrene	µg/kg	dw	30	83	6,500	1,220	825	1,400	256	2.30	6.38	33	49	3,700	582	63
Dibenz(a,h)anthracene	µg/kg	dw	15	38	1,700	606	520	557	144	0.96	-0.24	48	33	3,700	515	78
Benzo(g,h,i)perylene	µg/kg	dw	28	94	6,900	1,480	1,250	1,450	274	2.30	6.71	35	49	3,700	499	72
Phenol	µg/kg	dw	19	130	16,000	3,070	1,900	3,880	891	2.52	6.85	44	33	3,700	434	61
2-Methylphenol	µg/kg	dw	1	2,300	2,300	2,300	2,300					62	33	3,700	465	84.5
4-Methylphenol	µg/kg	dw	8	85	4,700	1,420	740	1,710	604	1.38	0.70	55	33	3,700	466	82

Table G1-6. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
2,4-Dimethylphenol	µg/kg	dw	1	1,600	1,600	1,600	1,600					62	170	19,000	2,390	435
2-Chlorophenol	µg/kg	dw										63	33	3,700	458	84
2,4-Dichlorophenol	µg/kg	dw										63	170	19,000	2,360	430
4-Chloro-3-methylphenol	µg/kg	dw										63	170	19,000	2,360	430
2,4,6-Trichlorophenol	µg/kg	dw										63	170	19,000	2,360	430
2,4,5-Trichlorophenol	µg/kg	dw										63	170	19,000	2,360	430
Pentachlorophenol	µg/kg	dw										63	850	100,000	11,900	2,200
2-Nitrophenol	µg/kg	dw										63	170	19,000	2,360	430
4-Nitrophenol	µg/kg	dw										63	850	100,000	11,900	2,200
2,4-Dinitrophenol	µg/kg	dw										63	850	100,000	11,900	2,200
2-Methyl-4,6-dinitrophenol	µg/kg	dw										63	850	100,000	11,900	2,200
Hexachloroethane	µg/kg	dw										63	33	3,700	458	84
Hexachlorobutadiene	µg/kg	dw										63	33	3,700	458	84
Hexachlorocyclopentadiene	µg/kg	dw										62	170	19,000	2,340	430
Bis(2-chloroethyl)ether	µg/kg	dw										63	33	3,700	458	84
4-Chlorophenyl-phenyl ether	µg/kg	dw										63	33	3,700	458	84
4-Bromophenyl-phenyl ether	µg/kg	dw										63	33	3,700	458	84
Bis(2-chloroethoxy)methane	µg/kg	dw										63	33	3,700	458	84
2,2'-Oxybis(1-chloropropane)	µg/kg	dw										63	33	3,700	458	84
Dimethyl phthalate	µg/kg	dw										63	33	3,700	458	84
Diethyl phthalate	µg/kg	dw	1	1,800	1,800	1,800	1,800					62	33	3,700	465	85
Di-n-butyl phthalate	µg/kg	dw	4	29	180	116	127	72.3	36.1	-0.44	-3.33	59	33	3,700	501	92
Butylbenzyl phthalate	µg/kg	dw	1	130	130	130	130					62	33	3,700	465	85
Bis(2-ethylhexyl)phthalate	µg/kg	dw	20	29	3,800	1,010	355	1,290	289	1.27	0.06	43	33	3,700	633	280
Di-n-octyl phthalate	µg/kg	dw										63	33	3,700	458	84
Isophorone	µg/kg	dw										63	33	3,700	458	84
Dibenzofuran	µg/kg	dw	28	74	21,000	3,400	1,130	5,210	984	2.25	5.07	35	33	2,900	299	61
Carbazole	µg/kg	dw	17	56	4,500	1,120	440	1,280	311	1.52	1.72	46	33	3,700	457	62.5
Nitrobenzene	µg/kg	dw										63	33	3,700	458	84
N-nitroso-di-n-propylamine	µg/kg	dw										63	33	3,700	458	84
2-Nitroaniline	µg/kg	dw										63	67	7,500	932	170
3-Nitroaniline	µg/kg	dw										62	850	100,000	12,100	2,200
4-Nitroaniline	µg/kg	dw										63	850	100,000	11,900	2,200
2,6-Dinitrotoluene	µg/kg	dw										63	170	19,000	2,360	430
2,4-Dinitrotoluene	µg/kg	dw										63	170	19,000	2,360	430
N-Nitrosodiphenylamine	µg/kg	dw										63	33	3,700	458	84
N-Nitrosodimethylamine	µg/kg	dw										63	170	19,000	2,360	430
4-Chloroaniline	µg/kg	dw	3	80	450	290	340	190	110	-1.10		57	33	3,700	499	86
3,3-Dichlorobenzidine	µg/kg	dw										63	33	3,700	458	84
Pesticides/Polychlorinated Biphenyls																
alpha-BHC	µg/kg	dw	5	2.11	4.43	3.00	2.73	0.89	0.40	1.23	1.59	41	1.0	1.17	1.03	1.02
beta-BHC	µg/kg	dw	7	1.3	6.04	2.94	2.74	1.51	0.57	1.62	3.63	33	1.0	5.78	1.28	1.02
delta-BHC	µg/kg	dw	8	1.57	8.73	4.44	3.25	2.67	0.94	0.64	-1.35	13	1.0	1.05	1.01	1.00
gamma-BHC (Lindane)	µg/kg	dw	2	1.77	6.99	4.38	4.38	3.69	2.61			45	1.0	1.17	1.03	1.02
Aldrin	µg/kg	dw	3	1.41	4.38	2.72	2.38	1.51	0.87	0.97		42	1.0	9.57	1.32	1.02
alpha-Chlordane	µg/kg	dw	10	1.12	10.6	4.29	4.02	2.61	0.82	1.63	3.82	39	1.0	1.17	1.03	1.02
gamma-Chlordane	µg/kg	dw	14	1.04	36.8	8.87	4.96	9.49	2.54	2.16	5.59	35	1.0	3.75	1.13	1.02
Dieldrin	µg/kg	dw	22	1.25	41.2	8.24	3.97	10.8	2.31	2.53	5.86	29	1.0	1.17	1.04	1.02
Endosulfan I	µg/kg	dw	3	2.69	5.75	4.66	5.55	1.71	0.99	-1.71		44	1.0	1.17	1.03	1.02

Table G1-6. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Endosulfan II	µg/kg	dw	2	1.28	3.75	2.52	2.52	1.75	1.24			44	1.0	1.17	1.03	1.02
Endosulfan sulfate	µg/kg	dw	9	1.57	18.4	7.60	6.53	5.91	1.97	0.79	-0.48	25	1.0	1.17	1.04	1.02
Endrin	µg/kg	dw	1	1.5	1.5	1.50	1.50					42	1.0	1.17	1.03	1.02
Endrin aldehyde	µg/kg	dw	1	3.27	3.27	3.27	3.27					45	1.0	1.17	1.03	1.02
Endrin ketone	µg/kg	dw	6	1.29	6.35	3.39	3.16	1.95	0.80	0.52	-1.01	42	1.0	1.17	1.04	1.02
Heptachlor	µg/kg	dw	3	7.41	18.3	12.4	11.5	5.50	3.18	0.72		45	1.0	1.17	1.03	1.02
Heptachlor epoxide	µg/kg	dw	12	1.58	35.2	11.2	9.09	8.57	2.47	2.19	6.07	36	1.0	1.17	1.03	1.02
Methoxychlor	µg/kg	dw	7	1.03	10.1	3.61	2.89	3.05	1.15	2.01	4.51	37	1.0	1.17	1.03	1.02
4,4'-DDD	µg/kg	dw	5	2.23	16	9.70	11.8	6.55	2.93	-0.38	-3.02	42	1.0	1.17	1.03	1.02
4,4'-DDE	µg/kg	dw	11	1.47	16.9	6.22	4.26	5.06	1.53	1.62	1.51	28	1.0	1.17	1.04	1.02
4,4'-DDT	µg/kg	dw	25	1.3	67.2	14.0	6.32	17.0	3.40	2.02	3.53	20	1.0	1.1	1.03	1.02
Toxaphene	µg/kg	dw	2	100	100	100	100	0	0			46	1.0	117	90.4	102
Aroclor 1016	µg/kg	dw										63	50	522	96.4	52.1
Aroclor 1221	µg/kg	dw	2	1,030	4,460	2,750	2,750	2,430	1,720			61	50	522	97.9	52.1
Aroclor 1232	µg/kg	dw										63	50	522	96.4	52.1
Aroclor 1242	µg/kg	dw	41	12.1	1,810	315	152	402	62.8	2.25	4.85	22	50	54.2	50.9	50
Aroclor 1248	µg/kg	dw	2	90.2	1,540	815	815	1,030	725			61	50	522	97.9	52.1
Aroclor 1254	µg/kg	dw	26	26.4	1,440	266	123	357	70.0	2.36	5.37	37	50	522	102	51.2
Aroclor 1260	µg/kg	dw	21	21.2	1,600	256	108	388	84.6	2.52	6.92	42	50	522	104	51.4
Aroclor 1268	µg/kg	dw	6	13.5	237	105	103	77.4	31.6	0.88	1.27	57	50	522	92.4	52.1
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	7	0.37	36.6	6.4	1.05	13.4	5.05	2.60	6.83	6	0.1	1.0	0.29	0.16
Total TCDDs	ng/kg	dw	9	0.60	302	65.4	10.1	103	34.2	1.90	3.31	4	0.1	0.66	0.27	0.16
2,3,7,8-TCDF	ng/kg	dw	9	4.46	230	94.7	78.2	80.4	26.8	0.60	-0.90	4	0.1	0.12	0.11	0.11
Total TCDFs	ng/kg	dw	10	0.60	1,440	673	583	593	188	0.16	-2.05	3	0.1	0.12	0.11	0.12
1,2,3,7,8-PeCDD	ng/kg	dw	7	0.88	69.2	13.2	5.61	24.9	9.39	2.58	6.72	6	0.1	0.47	0.17	0.10
Total PeCDDs	ng/kg	dw	8	3.41	539	93.8	27.8	182	64.3	2.71	7.46	5	0.1	0.29	0.15	0.10
1,2,3,7,8-PeCDF	ng/kg	dw	9	1.50	68.8	27.6	19.9	24.6	8.20	0.63	-1.09	4	0.1	0.1	0.10	0.10
2,3,4,7,8-PeCDF	ng/kg	dw	9	3.02	164	73.4	72.6	62.1	20.7	0.18	-1.43	4	0.1	0.1	0.10	0.10
Total PeCDFs	ng/kg	dw	10	0.28	941	336	256	344	109	0.74	-0.95	3	0.1	0.1	0.10	0.10
1,2,3,4,7,8-HxCDD	ng/kg	dw	7	0.36	31.2	5.9	0.96	11.3	4.25	2.57	6.68	6	0.1	0.45	0.17	0.10
1,2,3,6,7,8-HxCDD	ng/kg	dw	8	0.62	219	32.3	5.15	75.6	26.7	2.81	7.93	5	0.1	0.17	0.11	0.10
1,2,3,7,8,9-HxCDD	ng/kg	dw	8	1.51	170	25.7	4.72	58.4	20.7	2.80	7.89	5	0.1	0.17	0.11	0.10
Total HxCDDs	ng/kg	dw	9	0.44	2,160	279	45	706	235	2.99	8.94	4	0.1	0.51	0.20	0.10
1,2,3,4,7,8-HxCDF	ng/kg	dw	10	0.24	151	51.6	24	59.2	18.7	0.96	-0.57	3	0.1	0.1	0.10	0.10
1,2,3,6,7,8-HxCDF	ng/kg	dw	10	0.13	46	11.8	4.63	15.0	4.74	1.60	2.12	3	0.1	0.1	0.10	0.10
1,2,3,7,8,9-HxCDF	ng/kg	dw	5	1.88	6.69	3.95	3.76	1.93	0.86	0.55	-0.81	8	0.1	0.61	0.21	0.14
2,3,4,6,7,8-HxCDF	ng/kg	dw	9	0.37	26.1	6.40	2.5	8.19	2.73	2.07	4.64	4	0.1	0.1	0.10	0.10
Total HxCDFs	ng/kg	dw	10	0.36	1,100	205	56	336	106	2.52	6.81	3	0.1	0.1	0.10	0.10
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	9	0.42	2,490	318	34.5	816	272	2.98	8.91	4	0.1	0.45	0.27	0.27
Total HpCDDs	ng/kg	dw	10	0.49	5,300	607	41.1	1,650	522	3.14	9.90	3	0.1	0.19	0.13	0.10
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	9	0.91	683	109	24.1	218	72.6	2.86	8.36	4	0.1	0.41	0.18	0.10
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	8	1.48	54.1	21.7	19.5	20.3	7.17	0.51	-1.33	5	0.1	0.17	0.11	0.10
Total HpCDFs	ng/kg	dw	10	0.41	2,120	284	58.1	650	206	3.07	9.55	3	0.1	0.1	0.10	0.10
OCDD	ng/kg	dw	8	9.06	22,600	3,170	314	7,870	2,780	2.81	7.91	5	0.49	1.6	0.99	0.93
OCDF	ng/kg	dw	8	24	1,840	397	121	620	219	2.27	5.34	5	0.1	0.35	0.25	0.26

Table G1-7. Summary Statistics for Lake Sediment Samples Collected by Honeywell/Exponent in 2000 (200 to 300 cm depth)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Total organic carbon	%	dw	17	4.39	9.03	6.37	6.09	1.22	0.30	0.65	0.31					
Total solids	%	dw	17	46	65.4	53.0	53.4	4.63	1.12	0.92	2.05					
Percent clay	%	dw	17	7	23	15.6	15.0	5.38	1.31	-0.14	-1.43					
Percent silt	%	dw	17	43	88	69.9	65.0	13.8	3.35	-0.13	-0.94					
Percent sand	%	dw	17	0	50	14.5	14.0	13.3	3.23	1.05	1.74					
Total Metals and Cyanide																
Aluminum	mg/kg	dw	26	2,350	13,700	6,950	6,170	3,130	614	0.72	-0.36					
Antimony	mg/kg	dw	9	0.5	2.70	1.11	0.83	0.74	0.25	1.50	1.64	17	0.3	0.6	0.40	0.37
Arsenic	mg/kg	dw	26	0.48	11.8	6.70	7.70	3.74	0.73	-0.45	-1.16					
Barium	mg/kg	dw	26	23.3	1,810	357	127	475	93.2	2.07	3.58					
Beryllium	mg/kg	dw	26	5.3E-02	0.7	0.43	0.42	0.17	0.03	-0.21	-0.43					
Cadmium	mg/kg	dw	19	8.9E-02	16.6	2.72	0.73	4.53	1.04	2.54	5.85	7	4.4E-02	8.3E-02	0.06	0.05
Calcium	mg/kg	dw	26	90,100	446,000	252,738	260,000	96,913	19,006	-0.10	-0.67					
Chromium	mg/kg	dw	26	4.1	260	39.6	24.2	52.8	10.36	3.28	12.43					
Cobalt	mg/kg	dw	26	0.52	6.9	3.58	3.50	1.65	0.32	0.42	-0.37					
Copper	mg/kg	dw	26	4.3	309	73.6	48.5	78.0	15.31	1.71	2.65					
Cyanide	mg/kg	dw	11	1.2	13	3.86	1.80	4.13	1.25	1.81	1.97	15	0.78	1.1	0.93	0.92
Iron	mg/kg	dw	26	3,300	22,600	10,400	8,340	5,580	1,090	1.01	-0.06					
Lead	mg/kg	dw	26	0.8	430	83.0	38.8	104	20.4	1.90	3.91					
Magnesium	mg/kg	dw	26	4,010	30,900	13,200	13,200	7,180	1,410	0.89	0.19					
Manganese	mg/kg	dw	26	123	908	367	314	196	38.3	1.73	2.47					
Total Mercury	mg/kg	dw	20	8.9E-02	125	26.0	2.65	35.3	7.90	1.49	1.85	6	4.4E-02	5.6E-02	0.05	0.05
Nickel	mg/kg	dw	26	3.7	106	25.7	22.9	21.5	4.21	2.24	7.08					
Potassium	mg/kg	dw	26	41	3,730	1,340	882	1,090	214	0.83	-0.52					
Selenium	mg/kg	dw	20	0.78	2	1.30	1.25	0.34	0.08	0.24	-0.55	6	0.63	1.4	0.97	1.0
Silver	mg/kg	dw	14	0.23	9.7	1.96	0.67	2.67	0.71	2.29	5.34	12	0.12	0.24	0.16	0.15
Sodium	mg/kg	dw	26	1,970	23,100	7,640	6,110	5,250	1,030	1.66	2.35					
Thallium	mg/kg	dw	2	1.6	1.7	1.65	1.65	0.07	0.05			24	0.77	1.5	1.06	0.96
Vanadium	mg/kg	dw	26	3.8	25	12.9	12.8	5.76	1.13	0.55	-0.27					
Zinc	mg/kg	dw	26	13.2	539	159	126	142	27.81	1.25	0.92					
Volatile Organic Compounds																
Benzene	µg/kg	dw	18	4.3	3,600	807.9	50.5	1,220	288	1.33	0.32	3	7.5	9.6	8.60	8.70
Toluene	µg/kg	dw	14	6.4	18,000	3,047	125	5,330	1,430	2.16	4.43	7	7.5	36	12.84	9.30
Ethylbenzene	µg/kg	dw	15	11	7,100	1,500	720	1,970	510	1.83	3.75	6	7.5	15	9.82	9.05
Styrene	µg/kg	dw	1	12,000	12,000	12,000	12,000					20	7.5	1,900	291	11.0
Xylene(m,p)	µg/kg	dw	16	16	68,000	12,700	2,450	19,700	4,920	1.86	3.24	5	7.5	9.6	8.78	8.80
Xylene(o)	µg/kg	dw	16	16	25,000	4,590	610	7,160	1,790	1.91	3.52	5	7.5	9.6	8.78	8.80
Xylene (Total)																
Chlorobenzene	µg/kg	dw	12	3.4	6,700	1,990	1,750	2,200	636	1.0	0.38	9	7.5	52	14.6	9.60
1,2-Dichlorobenzene	µg/kg	dw	5	1,100	29,000	13,300	9,100	11,100	4,980	0.63	-0.92	21	50	3,700	286	65.0
1,3-Dichlorobenzene	µg/kg	dw	5	78	650	270	170	227	102	1.61	2.59	21	50	3,700	678	74.0
1,4-Dichlorobenzene	µg/kg	dw	8	140	49,000	11,700	3,550	18,000	6,370	1.71	1.97	18	50	3,700	308	64.0
1,2,4-Trichlorobenzene	µg/kg	dw	3	360	9,700	5,690	7,000	4,810	2,780	-1.14		23	50	3,700	431	71.0
Chloromethane	µg/kg	dw										21	7.5	1,900	363	11.0
Bromomethane	µg/kg	dw										21	7.5	1,900	363	11.0
Chloroethane	µg/kg	dw										21	7.5	1,900	363	11.0
Methylene chloride	µg/kg	dw										21	7.5	1,900	363	11.0

Table G1-7. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
1,1-Dichloroethane	µg/kg	dw										21	7.5	1,900	363	11.0
Chloroform	µg/kg	dw										21	7.5	1,900	363	11.0
1,2-Dichloroethane	µg/kg	dw										21	7.5	1,900	363	11.0
1,1,1-Trichloroethane	µg/kg	dw										21	7.5	1,900	363	11.0
Carbon tetrachloride	µg/kg	dw										21	7.5	1,900	363	11.0
Bromodichloromethane	µg/kg	dw										21	7.5	1,900	363	11.0
1,2-Dichloropropane	µg/kg	dw										21	7.5	1,900	363	11.0
Dibromochloromethane	µg/kg	dw										21	7.5	1,900	363	11.0
1,1,2-Trichloroethane	µg/kg	dw										21	7.5	1,900	363	11.0
Bromoform	µg/kg	dw										21	7.5	1,900	363	11.0
1,1,2,2-Tetrachloroethane	µg/kg	dw										21	7.5	1,900	363	11.0
Vinyl chloride	µg/kg	dw	1	5.8	5.8	5.8	5.8					20	7.5	1,900	381	11.0
1,1-Dichloroethene	µg/kg	dw										21	7.5	1,900	363	11.0
cis-1,2-Dichloroethene	µg/kg	dw	4	3	22	7.83	3.15	9.45	4.73	2.0	4.0	17	7.5	1,900	443	10.0
trans-1,2-Dichloroethene	µg/kg	dw										21	7.5	1,900	363	11.0
cis-1,3-Dichloropropene	µg/kg	dw										21	7.5	1,900	363	11.0
trans-1,3-Dichloropropene	µg/kg	dw										21	7.5	1,900	363	11.0
Trichloroethene	µg/kg	dw	3	3.2	36	18.7	17.0	16.5	9.51	0.47		18	7.5	1,900	420	11.0
Tetrachloroethene	µg/kg	dw	1	2.2	2.2	2.20	2.20					20	7.5	1,900	381	11.0
Acetone	µg/kg	dw	15	14	1,000	296	240	323	83.4	1.52	1.50	6	35	7,700	4,900	7,100
2-Butanone	µg/kg	dw	16	3	250	65.7	46	68.9	17.2	1.57	2.44	5	19	3,800	2,920	3,600
2-Hexanone	µg/kg	dw	1	3.7	3.7	3.7	3.7					20	15	3,800	761	21.5
4-Methyl-2-pentanone	µg/kg	dw	1	4	4	4	4					20	15	3,800	761	21.5
Carbon disulfide	µg/kg	dw	12	4	93	21.4	12.5	24.0	6.92	2.81	8.63	9	19	3,800	1,650	150
Semivolatile Organic Compounds																
Hexachlorobenzene	µg/kg	dw	2	400	1,600	1,000	1,000	849	600			24	50	3,700	613	75.5
Hexachlorobenzene (GC/ECD)	µg/kg	dw	16	1.14	1,880	294	22.4	592	148	2.27	4.14	8	1.0	1.0	1.0	1.0
Benzyl Alcohol	µg/kg	dw										26	260	19,000	2,930	380
2-Chloronaphthalene	µg/kg	dw										26	50	3,700	571	73.5
Naphthalene	µg/kg	dw	14	120	210,000	70,700	13,500	84,100	22,500	0.66	-1.41	12	50	74	60.8	60.5
Acenaphthylene	µg/kg	dw	10	44	3,900	1,250	810	1,250	396	1.22	0.81	16	50	2,800	458	64.0
Acenaphthene	µg/kg	dw	9	370	85,000	12,700	3,800	27,300	9,110	2.91	8.60	17	50	3,700	541	64.0
Fluorene	µg/kg	dw	11	46	49,000	8,510	2,200	14,500	4,370	2.58	7.13	15	50	3,700	489	64.0
Phenanthrene	µg/kg	dw	17	87	130,000	13,900	2,900	31,200	7,560	3.61	13.9	9	50	3,700	464	59.0
Anthracene	µg/kg	dw	11	110	58,000	7,990	2,800	16,800	5,060	3.18	10.3	15	50	3,700	422	64.0
2-Methylnaphthalene	µg/kg	dw	13	62	53,000	11,200	8,700	14,200	3,950	2.37	6.55	13	50	99	63.8	62.0
Fluoranthene	µg/kg	dw	16	65	48,000	6,540	2,850	11,800	250	3.24	11.6	10	50	3,700	871	60.5
Pyrene	µg/kg	dw	16	83	37,000	5,700	3,150	9,340	2,340	2.83	9.01	10	50	3,700	871	60.5
Benz(a)anthracene	g/kg	dw	14	67	10,000	2,320	1,650	2,790	745	1.82	3.73	12	50	3,700	737	63.0
Chrysene	µg/kg	dw	15	76	9,300	2,170	1,600	2,580	666	1.70	3.22	11	50	3,700	798	62.0
Benzo(b)fluoranthene	µg/kg	dw	11	88	3,500	1,250	890	1,070	323	0.87	0.35	15	50	3,700	733	64.0
Benzo(k)fluoranthene	µg/kg	dw	13	66	3,900	1,250	900	1,170	325	1.04	0.61	13	50	3,700	688	64.0
Benzo(a)pyrene	µg/kg	dw	11	81	4,200	1,850	1,500	1,390	419	0.54	-0.84	15	50	3,700	604	64.0
Indeno(1,2,3-cd)pyrene	µg/kg	dw	8	150	1,800	1,020	925	608.8	215	4.9E-03	-1.65	18	50	3,700	724	64.0
Dibenz(a,h)anthracene	µg/kg	dw	8	63	820	443	430	287.8	102	0.01	-2.03	18	50	3,700	724	64.0
Benzo(g,h,i)perylene	µg/kg	dw	8	180	1,900	1,170	1,200	642.6	227	-0.26	-1.44	18	50	3,700	724	64.0
Phenol	µg/kg	dw	6	600	6,600	4,530	5,050	2,120	866	-1.55	2.80	20	50	630	127	64.5
2-Methylphenol	µg/kg	dw										26	50	3,700	571	73.5
4-Methylphenol	µg/kg	dw	1	110	110	110	110					25	50	3,700	591	74.0

Table G1-7. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
2,4-Dimethylphenol	µg/kg	dw										26	260	19,000	2,930	380
2-Chlorophenol	µg/kg	dw										26	50	3,700	571	73.5
2,4-Dichlorophenol	µg/kg	dw										26	260	19,000	2,930	380
4-Chloro-3-methylphenol	µg/kg	dw										26	260	19,000	2,930	380
2,4,6-Trichlorophenol	µg/kg	dw										26	260	19,000	2,930	380
2,4,5-Trichlorophenol	µg/kg	dw										26	260	19,000	2,930	380
Pentachlorophenol	µg/kg	dw										26	1,300	95,000	14,800	1,900
2-Nitrophenol	µg/kg	dw										26	260	19,000	2,930	380
4-Nitrophenol	µg/kg	dw										26	1,300	95,000	14,800	1,900
2,4-Dinitrophenol	µg/kg	dw										26	1,300	95,000	14,800	1,900
2-Methyl-4,6-dinitrophenol	µg/kg	dw										26	1,300	95,000	14,800	1,900
Hexachloroethane	µg/kg	dw										26	50	3,700	571	73.5
Hexachlorobutadiene	µg/kg	dw										26	50	3,700	571	73.5
Hexachlorocyclopentadiene	µg/kg	dw										26	260	19,000	2,930	380
Bis(2-chloroethyl)ether	µg/kg	dw										26	50	3,700	571	73.5
4-Chlorophenyl-phenyl ether	µg/kg	dw										26	50	3,700	571	73.5
4-Bromophenyl-phenyl ether	µg/kg	dw										26	50	3,700	571	73.5
Bis(2-chloroethoxy)methane	µg/kg	dw										26	50	3,700	571	73.5
2,2'-Oxybis(1-chloropropane)	µg/kg	dw										26	50	3,700	571	73.5
Dimethyl phthalate	µg/kg	dw										26	50	3,700	571	73.5
Diethyl phthalate	µg/kg	dw										26	50	3,700	571	73.5
Di-n-butyl phthalate	µg/kg	dw										26	50	3,700	623	115
Butylbenzyl phthalate	µg/kg	dw										26	50	3,700	571	73.5
Bis(2-ethylhexyl)phthalate	µg/kg	dw	9	32	620	261	220	180	60.0	0.97	0.74	17	50	3,700	837	140
Di-n-octyl phthalate	µg/kg	dw										26	50	3,700	571	73.5
Isophorone	µg/kg	dw										26	50	3,700	571	73.5
Dibenzofuran	µg/kg	dw	9	100	37,000	5,710	790	12,000	3,990	2.80	8.04	17	50	3,700	541	64.0
Carbazole	µg/kg	dw	6	40	21,000	3,900	310	8,400	3,430	2.42	5.90	20	50	3,700	598	64.5
Nitrobenzene	µg/kg	dw										26	50	3,700	571	73.5
N-nitroso-di-n-propylamine	µg/kg	dw										26	50	3,700	571	73.5
2-Nitroaniline	µg/kg	dw										26	100	7,500	1,170	150
3-Nitroaniline	µg/kg	dw										26	1,300	95,000	14,800	1,900
4-Nitroaniline	µg/kg	dw										26	1,300	95,000	14,800	1,900
2,6-Dinitrotoluene	µg/kg	dw										26	260	19,000	2,930	380
2,4-Dinitrotoluene	µg/kg	dw										26	260	19,000	2930	380
N-Nitrosodiphenylamine	µg/kg	dw										26	50	3,700	571	73.5
N-Nitrosodimethylamine	µg/kg	dw										26	260	19,000	2,930	380
4-Chloroaniline	µg/kg	dw										24	50	3,700	613	75.5
3,3-Dichlorobenzidine	µg/kg	dw	1	62	62	62	62					25	50	3,700	586	73.0
Pesticides/Polychlorinated Biphenyls																
alpha-BHC	µg/kg	dw	1	3.53	3.53	3.5	3.53					18	1.0	1.0	1.0	1.0
beta-BHC	µg/kg	dw	3	1.23	2.58	1.9	1.83	0.68	0.39	0.33		12	1.0	1.0	1.34	1.0
delta-BHC	µg/kg	dw										11	1.0	1.0	1.0	1.0
gamma-BHC (Lindane)	µg/kg	dw										18	1.0	1.0	1.0	1.0
Aldrin	µg/kg	dw	1	2.14	2.14	2.1	2.14					16	1.0	1.0	1.0	1.0
alpha-Chlordane	µg/kg	dw	1	1.29	1.29	1.3	1.29					18	1.0	1.0	1.0	1.0
gamma-Chlordane	µg/kg	dw	3	2.61	4.45	3.6	3.71	0.93	0.53	-0.57		15	1.0	6.39	1.36	1.0
Dieldrin	µg/kg	dw	13	1.06	13.2	4.6	3.47	3.27	0.91	1.67	3.36	12	1.0	1.0	1.0	1.0
Endosulfan I	µg/kg	dw	2	2.95	3.43	3.2	3.19	0.34	0.24			18	1.0	1.0	1.0	1.0

Table G1-7. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Endosulfan II	µg/kg	dw	2	2.23	4.11	3.2	3.17	1.33	0.94			18	1.0	1.0	1.0	1.0
Endosulfan sulfate	µg/kg	dw	6	1.87	29.8	10.4	6.60	10.1	4.14	1.83	3.51	5	1.0	1.0	1.0	1.0
Endrin	µg/kg	dw										14	1.0	1.0	1.0	1.0
Endrin aldehyde	µg/kg	dw	2	3.56	4.22	3.9	3.89	0.47	0.33			17	1.0	1.0	1.0	1.0
Endrin ketone	µg/kg	dw	3	3.45	5.29	4.6	5.04	1.0	0.58	-1.61		16	1.0	1.0	1.0	1.0
Heptachlor	µg/kg	dw	1	13.2	13.2	13.2	13.2					19	1.0	1.0	1.0	1.0
Heptachlor epoxide	µg/kg	dw	4	2.77	17.7	7.1	4.06	7.07	3.54	1.94	3.81	16	1.0	1.0	1.0	1.0
Methoxychlor	µg/kg	dw	3	11.1	97.8	40.7	13.1	49.5	28.6	1.73		18	1.0	1.0	1.0	1.0
4,4'-DDD	µg/kg	dw	6	5.18	26.7	16.1	16.4	8.48	3.46	-0.08	-1.51	13	1.0	1.0	1.0	1.0
4,4'-DDE	µg/kg	dw	5	1.94	5.64	3.1	2.22	1.56	0.70	1.55	1.94	12	1.0	1.0	1.0	1.0
4,4'-DDT	µg/kg	dw	10	2.56	72	12.5	5.4	21.0	6.65	3.08	9.60	8	1.0	1.0	1.0	1.0
Toxaphene	µg/kg	dw	1	100	100	100	100					18	1.0	100	89.0	100
Aroclor 1016	µg/kg	dw										26	50	1,000	168	50.0
Aroclor 1221	µg/kg	dw										26	50	1,000	168	50.0
Aroclor 1232	µg/kg	dw										26	50	1,000	168	50.0
Aroclor 1242	µg/kg	dw	12	14.5	492	194	190	123	35.6	1.0	2.52	14	50	1,000	144	50.0
Aroclor 1248	µg/kg	dw										26	50	1,000	168	50.0
Aroclor 1254	µg/kg	dw	6	96.8	180	124.5	108	33.4	13.65	1.19	-0.08	20	50	1,000	171	50.0
Aroclor 1260	µg/kg	dw	4	33.1	1,050	297	52.25	502	251	2.0	3.99	22	50	500	146	50.0
Aroclor 1268	µg/kg	dw	5	26.7	141	73.4	68.1	46.5	20.8	0.69	-0.53	21	50	1,000	187	50.0
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	2	1.21	5.03	3.12	3.12	2.7	1.91			4	0.1	0.15	0.12	0.11
Total TCDDs	ng/kg	dw	3	12.6	71.2	33.0	15.3	33.1	19.1	1.72		3	0.1	0.15	0.12	0.10
2,3,7,8-TCDF	ng/kg	dw	4	0.99	206	67.5	31.5	94.7	47.4	1.72	2.94	2	0.1	0.1	0.10	0.10
Total TCDFs	ng/kg	dw	4	21.2	1,270	450	255	559	279	1.74	3.23	2	0.1	0.1	0.10	0.10
1,2,3,7,8-PeCDD	ng/kg	dw	3	0.55	9.04	4.01	2.44	4.46	2.57	1.39		3	0.1	0.15	0.12	0.10
Total PeCDDs	ng/kg	dw	3	5.82	95.7	40.3	19.5	48.4	28.0	1.58		3	0.1	0.15	0.12	0.10
1,2,3,7,8-PeCDF	ng/kg	dw	4	0.47	102	30.0	8.82	48.3	24.1	1.93	3.74	2	0.1	0.1	0.10	0.10
2,3,4,7,8-PeCDF	ng/kg	dw	4	0.65	122	34.4	7.51	58.5	29.2	1.98	3.94	2	0.1	0.1	0.10	0.10
Total PeCDFs	ng/kg	dw	4	6.16	791	244	89.1	367	183	1.93	3.79	2	0.1	0.1	0.10	0.10
1,2,3,4,7,8-HxCDD	ng/kg	dw	3	0.19	4.87	2.69	3.01	2.36	1.36	-0.60		3	0.1	0.15	0.12	0.10
1,2,3,6,7,8-HxCDD	ng/kg	dw	3	0.56	32.4	13.8	8.52	16.6	9.57	1.29		3	0.1	0.15	0.12	0.10
1,2,3,7,8,9-HxCDD	ng/kg	dw	3	0.74	21.9	10.0	7.28	10.8	6.25	1.05		3	0.1	0.15	0.12	0.10
Total HxCDDs	ng/kg	dw	3	7.04	279	130	103	138	79.6	0.84		3	0.1	0.15	0.12	0.10
1,2,3,4,7,8-HxCDF	ng/kg	dw	5	0.15	203	49.2	2.75	87.6	39.2	2.05	4.23	1	0.1	0.1	0.10	0.10
1,2,3,6,7,8-HxCDF	ng/kg	dw	4	0.26	68.1	19.9	5.54	32.4	16.2	1.93	3.74	2	0.1	0.1	0.10	0.10
1,2,3,7,8,9-HxCDF	ng/kg	dw	2	1.68	20.2	10.9	10.9	13.1	9.26			4	0.1	0.31	0.17	0.13
2,3,4,6,7,8-HxCDF	ng/kg	dw	4	0.17	36.5	13.6	8.93	17.0	8.48	1.05	-0.25	2	0.1	0.1	0.10	0.10
Total HxCDFs	ng/kg	dw	4	1.52	680	211	81.4	319	159	1.79	3.19	2	0.1	0.1	0.10	0.10
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	4	0.26	421	144	77.0	198	98.9	1.34	1.15	2	0.18	0.59	0.39	0.39
Total HpCDDs	ng/kg	dw	6	0.18	831	198	3.67	340	139	1.73	2.49					
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	3	0.34	502	184	49.7	276	160	1.67		3	0.13	5.4	1.92	0.23
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	3	0.59	49.3	22.2	16.6	24.8	14.3	0.96		3	0.1	0.15	0.12	0.10
Total HpCDFs	ng/kg	dw	5	0.23	981	227	8.22	426	191	2.13	4.57	1	0.1	0.1	0.10	0.10
OCDD	ng/kg	dw	4	3.9	2,370	916	645	1,140	570	0.73	-1.95	2	0.91	1.0	0.96	0.96
OCDF	ng/kg	dw	3	5.07	499	236	205	248	143	0.56		3	0.15	0.45	0.25	0.15

Table G1-8. Summary Statistics for Lake Sediment Samples Collected by Honeywell/Exponent in 2000 (300 to 400 cm depth)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Total organic carbon	%	dw	18	3.08	12	6.3	6.13	2.08	0.49	1.13	2.14					
Total solids	%	dw	18	50.7	64.2	55.4	54.85	3.37	0.79	1.18	1.56					
Percent clay	%	dw	18	9	33	19.3	19.5	7.19	1.70	0.20	-1.06					
Percent silt	%	dw	18	49	89	65.9	65.5	11.9	2.82	0.44	-0.39					
Percent sand	%	dw	18	0	33	14.8	15.5	8.99	2.12	0.05	-0.68					
Total Metals and Cyanide																
Aluminum	mg/kg	dw	26	4,440	14,700	8,130	7,510	3,100	608	0.47	-0.93					
Antimony	mg/kg	dw	7	0.47	1.3	0.84	0.83	0.33	0.12	0.16	-1.94	19	0.3	0.7	0.39	0.35
Arsenic	mg/kg	dw	26	0.96	26.9	8.01	7.50	6.76	1.33	1.55	2.22					
Barium	mg/kg	dw	26	27.3	1,540	278	104	396	77.6	2.40	5.15					
Beryllium	mg/kg	dw	26	9.6E-02	1.2	0.48	0.44	0.24	0.05	1.38	2.48					
Cadmium	mg/kg	dw	19	7.8E-02	22.2	3.17	2.20	5.03	1.15	3.27	12.4	7	0.05	9.1E-02	0.06	0.05
Calcium	mg/kg	dw	26	70,900	559,000	228,000	222,000	114,000	22,300	0.88	1.22					
Chromium	mg/kg	dw	26	7.4	158	36.5	22.1	36.9	7.24	2.11	4.51					
Cobalt	mg/kg	dw	26	1.7	7.9	4.44	4.60	1.85	0.36	0.17	-1.05					
Copper	mg/kg	dw	26	6.3	277	68.7	45.8	73.7	14.4	1.49	1.47					
Cyanide	mg/kg	dw	9	0.95	28	7.76	3.40	9.25	3.08	1.53	1.97	17	0.78	1.6	0.95	0.91
Iron	mg/kg	dw	26	5,150	23,400	13,100	12,600	5,480	1,070	0.26	-1.21					
Lead	mg/kg	dw	26	2.3	320	77.0	43.2	94.0	18.4	1.35	0.60					
Magnesium	mg/kg	dw	26	5,500	25,800	12,800	10,200	6,280	1,230	0.82	-0.50					
Manganese	mg/kg	dw	26	199	1,400	392	312	271	53.1	2.77	8.09					
Total Mercury	mg/kg	dw	19	5.6E-02	110	16.9	2.40	30.2	6.93	2.14	4.37	7	4.4E-02	5.6E-02	0.05	0.05
Nickel	mg/kg	dw	26	7.2	71.6	25.9	22.1	16.7	3.27	1.21	1.25					
Potassium	mg/kg	dw	26	56.2	3,600	1,680	1,490	1,040	204	0.11	-1.12					
Selenium	mg/kg	dw	18	0.7	3.3	1.43	1.35	0.61	0.14	1.79	4.44	8	0.65	1.4	0.95	0.87
Silver	mg/kg	dw	14	0.21	9.7	1.78	0.66	2.52	0.67	2.71	8.18	12	0.12	0.28	0.16	0.14
Sodium	mg/kg	dw	26	2,780	26,400	10,200	7,270	6,830	1,340	1.00	-0.03					
Thallium	mg/kg	dw	5	0.88	2.3	1.29	1.10	0.58	0.26	1.98	4.09	21	0.77	1.8	1.04	0.91
Vanadium	mg/kg	dw	26	7.3	26	15.8	16.4	5.80	1.14	-0.10	-1.23					
Zinc	mg/kg	dw	26	26.5	613	158	100	151	29.7	1.65	2.24					
Volatile Organic Compounds																
Benzene	µg/kg	dw	14	4.2	9,300	1,200	32.5	2,560	683	2.83	8.61	5	7.8	9.8	8.84	9.1
Toluene	µg/kg	dw	9	11	16,000	4,610	54	6,630	2,210	1.18	-0.32	10	7.8	2,400	249	9.3
Ethylbenzene	µg/kg	dw	11	11	40,000	7,670	260	13,700	4,150	1.91	2.61	8	7.8	16	9.84	9.2
Styrene	µg/kg	dw	1	7,400	7,400	7,400	7,400					18	7.8	1,800	211	9.6
Xylene(m,p)	µg/kg	dw	12	8.4	200,000	4,800	345	66,500	19,200	1.62	1.80	7	7.8	9.8	8.96	9.1
Xylene(o)	µg/kg	dw	12	4.9	76,000	14,700	350	24,200	7,000	1.78	2.83	7	7.8	9.8	8.96	9.1
Xylene (Total)																
Chlorobenzene	µg/kg	dw	8	9.3	24,000	8,170	127	11,300	3,980	0.70	-2.03	11	7.8	16	9.6	9.2
1,2-Dichlorobenzene	µg/kg	dw	3	2,000	5,500	3,500	3,000	1,800	1,040	1.15		23	50	5,800	410	65.0
1,3-Dichlorobenzene	µg/kg	dw	2	120	180	150	150	42.4	30.0			24	50	5,800	546	66.0
1,4-Dichlorobenzene	µg/kg	dw	4	87	6,900	3,097	2,700	3,070	1,540	0.51	-2.08	22	50	5,800	426	65.0
1,2,4-Trichlorobenzene	µg/kg	dw	1	300	300	300	300					25	50	5,800	511	66.0
Chloromethane	µg/kg	dw										19	7.8	1,800	204	9.8
Bromomethane	µg/kg	dw										19	7.8	1,800	204	9.8
Chloroethane	µg/kg	dw										19	7.8	1,800	204	9.8
Methylene chloride	µg/kg	dw										19	7.8	1,800	204	9.8

Table G1-8. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
1,1-Dichloroethane	µg/kg	dw										19	7.8	1,800	204	9.8
Chloroform	µg/kg	dw										19	7.8	1,800	204	9.8
1,2-Dichloroethane	µg/kg	dw										19	7.8	1,800	204	9.8
1,1,1-Trichloroethane	µg/kg	dw										19	7.8	1,800	204	9.8
Carbon tetrachloride	µg/kg	dw										19	7.8	1,800	204	9.8
Bromodichloromethane	µg/kg	dw										19	7.8	1,800	204	9.8
1,2-Dichloropropane	µg/kg	dw										19	7.8	1,800	204	9.8
Dibromochloromethane	µg/kg	dw										19	7.8	1,800	204	9.8
1,1,2-Trichloroethane	µg/kg	dw										19	7.8	1,800	204	9.8
Bromoform	µg/kg	dw										19	7.8	1,800	204	9.8
1,1,2,2-Tetrachloroethane	µg/kg	dw										19	7.8	1,800	204	9.8
Vinyl chloride	µg/kg	dw										19	7.8	1,800	204	9.8
1,1-Dichloroethene	µg/kg	dw										19	7.8	1,800	204	9.8
cis-1,2-Dichloroethene	µg/kg	dw										19	7.8	1,800	204	9.8
trans-1,2-Dichloroethene	µg/kg	dw										19	7.8	1,800	204	9.8
cis-1,3-Dichloropropene	µg/kg	dw										19	7.8	1,800	204	9.8
trans-1,3-Dichloropropene	µg/kg	dw										19	7.8	1,800	204	9.8
Trichloroethene	µg/kg	dw										19	7.8	1,800	204	9.8
Tetrachloroethene	µg/kg	dw										19	7.8	1,800	204	9.8
Acetone	µg/kg	dw	14	18	840	225	150	242	64.6	1.59	2.18	5	37	7,300	2,860	310
2-Butanone	µg/kg	dw	16	4.4	250	74.2	40.5	73.5	18.4	1.07	0.46	3	20	3,600	2,310	3,300
2-Hexanone	µg/kg	dw	1	3.6	3.6	3.6	3.6					18	16	3,600	423	19.5
4-Methyl-2-pentanone	µg/kg	dw	1	3.6	3.6	3.6	3.6					18	16	3,600	423	19.5
Carbon disulfide	µg/kg	dw	11	4.4	55	20.3	19	14.0	4.22	1.54	3.34	8	17	3,600	882	26.0
Semivolatile Organic Compounds																
Hexachlorobenzene	µg/kg	dw										26	50	5,800	509	66.0
Hexachlorobenzene (GC/ECD)	µg/kg	dw	11	1.24	398	69.3	23.4	122	36.6	2.43	5.90	12	1.0	1.01	1.0	1.0
Benzyl Alcohol	µg/kg	dw										26	260	30,000	2,620	340
2-Chloronaphthalene	µg/kg	dw										26	50	5,800	509	66.0
Naphthalene	µg/kg	dw	11	36	250,000	57,360	8,900	82,600	24,900	1.56	1.83	15	50	110	64.5	63.0
Acenaphthylene	µg/kg	dw	10	75	8,000	1,760	1,300	2,360	747	2.39	6.41	16	50	460	88.8	62.5
Acenaphthene	µg/kg	dw	9	57	71,000	10,800	660	22,900	7,620	2.86	8.38	17	50	2,500	231	63.0
Fluorene	µg/kg	dw	8	740	35,000	10,500	5,850	12,400	4,370	1.41	1.14	18	50	460	86.8	63.0
Phenanthrene	µg/kg	dw	17	80	130,000	14,600	1,800	32,500	7,870	3.17	11.0	9	50	66	59.7	60.0
Anthracene	µg/kg	dw	12	63	42,000	6,450	855	12,200	3,510	2.66	7.58	14	50	2,500	267	63.0
2-Methylnaphthalene	µg/kg	dw	11	32	160,000	20,500	8,300	46,700	14,100	3.21	10.5	15	50	110	64.5	63.0
Fluoranthene	µg/kg	dw	16	76	35,000	5,860	1,300	9,750	2,440	2.19	4.82	10	50	2,500	304	61.0
Pyrene	µg/kg	dw	15	57	51,000	8,210	1,400	14,700	3,790	2.27	4.89	11	50	2,500	318	62.0
Benz(a)anthracene	g/kg	dw	11	90	19,000	4,300	950	6,450	1,950	1.70	1.86	15	50	2,500	253	63.0
Chrysene	µg/kg	dw	13	74	22,000	3,840	1,100	6,570	1,820	2.24	4.74	13	50	2,500	343	63.0
Benzo(b)fluoranthene	µg/kg	dw	11	86	6,800	1,740	750	2,270	684	1.64	1.67	15	50	2,500	306	63.0
Benzo(k)fluoranthene	µg/kg	dw	12	71	5,700	1,600	685	2,050	592	1.51	1.00	14	50	2,500	323	63.5
Benzo(a)pyrene	µg/kg	dw	10	97	12,000	3,560	980	4,700	1,490	1.40	0.41	16	50	2,500	290	63.0
Indeno(1,2,3-cd)pyrene	µg/kg	dw	9	140	4,700	1,480	560	1,580	527	1.34	0.82	17	50	2,500	277	63.0
Dibenz(a,h)anthracene	µg/kg	dw	6	140	1,500	561.7	315	538.8	220	1.33	0.85	20	50	5,800	584	65.0
Benzo(g,h,i)perylene	µg/kg	dw	10	71	6,300	1,700	565	2,100	663	1.50	1.43	16	50	2,500	290	63.0
Phenol	µg/kg	dw	5	360	7,100	4,050	3,800	2,840	1,270	-0.18	-1.80	21	50	5,800	391	64.0
2-Methylphenol	µg/kg	dw	1	5,400	5,400	5,400	5,400					25	50	5,800	495	66.0
4-Methylphenol	µg/kg	dw	5	61	5,300	2,170	670	2,600	1,160	0.60	-3.11	21	50	5,800	441	65.0

Table G1-8. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	DETECTS Minimum Detection	DETECTS Maximum Detection	DETECTS Mean	DETECTS Median	DETECTS Standard Deviation	DETECTS Standard Error	DETECTS Skewness	DETECTS Kurtosis	NON-DETECTS N	NON-DETECTS Minimum Detection Limit	NON-DETECTS Maximum Detection Limit	NON-DETECTS Mean	NON-DETECTS Median
2,4-Dimethylphenol	µg/kg	dw										26	260	30,000	2,620	340
2-Chlorophenol	µg/kg	dw										26	50	5,800	509	66.0
2,4-Dichlorophenol	µg/kg	dw										26	260	30,000	2,620	340
4-Chloro-3-methylphenol	µg/kg	dw										26	260	30,000	2,620	340
2,4,6-Trichlorophenol	µg/kg	dw										26	260	30,000	2,620	340
2,4,5-Trichlorophenol	µg/kg	dw										26	260	30,000	2,620	340
Pentachlorophenol	µg/kg	dw										26	1,300	150,000	13,100	1,700
2-Nitrophenol	µg/kg	dw										26	260	30,000	2,620	340
4-Nitrophenol	µg/kg	dw										26	1,300	150,000	13,100	1,700
2,4-Dinitrophenol	µg/kg	dw										26	1,300	150,000	13,100	1,700
2-Methyl-4,6-dinitrophenol	µg/kg	dw										26	1,300	150,000	13,100	1,700
Hexachloroethane	µg/kg	dw										26	50	5,800	509	66.0
Hexachlorobutadiene	µg/kg	dw										26	50	5,800	509	66.0
Hexachlorocyclopentadiene	µg/kg	dw										26	260	30,000	2,620	340
Bis(2-chloroethyl)ether	µg/kg	dw										26	50	5,800	509	66.0
4-Chlorophenyl-phenyl ether	µg/kg	dw										26	50	5,800	509	66.0
4-Bromophenyl-phenyl ether	µg/kg	dw										26	50	5,800	509	66.0
Bis(2-chloroethoxy)methane	µg/kg	dw										26	50	5,800	509	66.0
2,2'-Oxybis(1-chloropropane)	µg/kg	dw										26	50	5,800	509	66.0
Dimethyl phthalate	µg/kg	dw										26	50	5,800	509	66.0
Diethyl phthalate	µg/kg	dw										26	50	5,800	509	66.0
Di-n-butyl phthalate	µg/kg	dw	2	77	100	88.5	88.5	16.3	11.5			24	50	5,800	612	100
Butylbenzyl phthalate	µg/kg	dw										26	50	5,800	509	66.0
Bis(2-ethylhexyl)phthalate	µg/kg	dw	7	36	460	162	78	161	60.8	1.42	0.83	19	50	5,800	674	75.0
Di-n-octyl phthalate	µg/kg	dw										26	50	5,800	509	66.0
Isophorone	µg/kg	dw										26	50	5,800	509	66.0
Dibenzofuran	µg/kg	dw	7	240	7,400	2,450	1,300	2,720	1,030	1.27	0.51	19	50	630	115	63.0
Carbazole	µg/kg	dw	3	90	2,900	1,070	210	1,590	917	1.72		23	50	5,800	522	66.0
Nitrobenzene	µg/kg	dw										26	50	5,800	509	66.0
N-nitroso-di-n-propylamine	µg/kg	dw										26	50	5,800	509	66.0
2-Nitroaniline	µg/kg	dw										26	100	12,000	1,040	130
3-Nitroaniline	µg/kg	dw										25	1,300	150,000	13,600	1,700
4-Nitroaniline	µg/kg	dw										26	1,300	150,000	13,100	1,700
2,6-Dinitrotoluene	µg/kg	dw										26	260	30,000	2,620	340
2,4-Dinitrotoluene	µg/kg	dw										26	260	30,000	2,620	340
N-Nitrosodiphenylamine	µg/kg	dw										26	50	5,800	509	66.0
N-Nitrosodimethylamine	µg/kg	dw										26	260	30,000	2,620	340
4-Chloroaniline	µg/kg	dw										24	50	5,800	546	66.0
3,3-Dichlorobenzidine	µg/kg	dw										26	50	5,800	509	66.0
Pesticides/Polychlorinated Biphenyls																
alpha-BHC	µg/kg	dw	2	1.43	2.92	2.18	2.18	1.05	0.75			16	1.0	1.03	1.0	1.0
beta-BHC	µg/kg	dw	6	1.12	7.62	3.67	2.99	2.59	1.06	0.69	-1.12	15	1.0	1.03	1.0	1.0
delta-BHC	µg/kg	dw										11	1.0	1.03	1.0	1.0
gamma-BHC (Lindane)	µg/kg	dw										18	1.0	1.03	1.0	1.0
Aldrin	µg/kg	dw	1	1.66	1.66	1.66	1.66					15	1.0	1.03	1.0	1.0
alpha-Chlordane	µg/kg	dw	1	1.43	1.43	1.43	1.43					18	1.0	1.03	1.0	1.0
gamma-Chlordane	µg/kg	dw	3	1.59	4.28	2.75	2.39	1.38	0.80	1.10		15	1.0	1.03	1.0	1.0
Dieldrin	µg/kg	dw	9	1.05	7.83	3.91	3.45	1.95	0.65	0.83	1.28	14	1.0	1.03	1.0	1.0
Endosulfan I	µg/kg	dw	1	1.52	1.52	1.52	1.52					18	1.0	1.03	1.0	1.0

Table G1-8. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	DETECTS Minimum Detection	DETECTS Maximum Detection	DETECTS Mean	DETECTS Median	DETECTS Standard Deviation	DETECTS Standard Error	DETECTS Skewness	DETECTS Kurtosis	NON-DETECTS N	NON-DETECTS Minimum Detection Limit	NON-DETECTS Maximum Detection Limit	NON-DETECTS Mean	NON-DETECTS Median
Endosulfan II	µg/kg	dw	1	1.57	1.57	1.57	1.57					17	1.0	1.03	1.0	1.0
Endosulfan sulfate	µg/kg	dw	3	2.68	33.3	14.5	7.58	16.4	9.50	1.56		6	1.0	1.03	1.0	1.0
Endrin	µg/kg	dw										16	1.0	1.01	1.0	1.0
Endrin aldehyde	µg/kg	dw	1	2	2	2	2					17	1.0	1.03	1.0	1.0
Endrin ketone	µg/kg	dw	1	2.03	2.03	2.03	2.03					17	1.0	1.03	1.0	1.0
Heptachlor	µg/kg	dw	1	4.54	4.54	4.54	4.54					18	1.0	1.03	1.0	1.0
Heptachlor epoxide	µg/kg	dw	3	2.21	4.68	3.5	3.61	1.24	0.72	-0.40		16	1.0	1.03	1.0	1.0
Methoxychlor	µg/kg	dw										18	1.0	1.03	1.0	1.0
4,4'-DDD	µg/kg	dw	6	3.88	16	9.10	9.46	4.41	1.80	0.44	-0.15	17	1.0	1.03	1.0	1.0
4,4'-DDE	µg/kg	dw	2	3.11	4.28	3.70	3.70	0.83	0.58			16	1.0	1.03	1.0	1.0
4,4'-DDT	µg/kg	dw	8	1.04	35.4	8.44	4.84	11.1	3.93	2.62	7.10	9	1.0	1.03	1.0	1.0
Toxaphene	µg/kg	dw										18	1.0	103	89.2	100
Aroclor 1016	µg/kg	dw										26	50	1,000	123	50.0
Aroclor 1221	µg/kg	dw										26	50	1,000	123	50.0
Aroclor 1232	µg/kg	dw										26	50	1,000	123	50.0
Aroclor 1242	µg/kg	dw	7	14.7	229	152	130	77.9	29.5	-0.76	0.17	19	50	1,000	124	50.0
Aroclor 1248	µg/kg	dw										26	50	1,000	123	50.0
Aroclor 1254	µg/kg	dw	5	17.1	135	87.7	87.4	48.7	21.8	-0.62	-0.55	21	50	1,000	124	50.0
Aroclor 1260	µg/kg	dw	5	18.5	487	121	24	205	91.7	2.21	4.88	21	50	1,000	126	50.0
Aroclor 1268	µg/kg	dw	4	17.1	1,260	397	155	580	290	1.91	3.73	22	50	1,000	121	50.0
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	2	0.46	3.34	1.90	1.90	2.04	1.44			4	0.1	0.3	0.2	0.1
Total TCDDs	ng/kg	dw	3	0.38	50.9	20.2	9.2	27.0	15.6	1.53		3	0.1	0.3	0.2	0.1
2,3,7,8-TCDF	ng/kg	dw	3	6.53	176	82.6	65.2	86.1	49.7	0.87		3	0.1	0.1	0.1	0.1
Total TCDFs	ng/kg	dw	5	0.20	930	267	160	385	172	1.84	3.55	1	0.1	0.1	0.1	0.1
1,2,3,7,8-PeCDD	ng/kg	dw	2	0.93	9.98	5.45	5.45	6.40	4.53			4	0.1	0.18	0.1	0.1
Total PeCDDs	ng/kg	dw	2	13.4	67.3	40.4	40.4	38.1	27.0			4	0.1	0.18	0.1	0.1
1,2,3,7,8-PeCDF	ng/kg	dw	3	3	53.3	35.1	49	27.9	16.1	-1.69		3	0.1	0.1	0.1	0.1
2,3,4,7,8-PeCDF	ng/kg	dw	4	0.11	137	39.2	9.88	65.5	32.7	1.94	3.81	2	0.1	0.1	0.1	0.1
Total PeCDFs	ng/kg	dw	3	54	742	324	177	367	212	1.52		3	0.1	0.1	0.1	0.1
1,2,3,4,7,8-HxCDD	ng/kg	dw	2	1.12	3.58	2.35	2.35	1.74	1.23			4	0.1	0.17	0.1	0.1
1,2,3,6,7,8-HxCDD	ng/kg	dw	2	6.73	14.6	10.7	10.7	5.56	3.94			4	0.1	0.17	0.1	0.1
1,2,3,7,8,9-HxCDD	ng/kg	dw	2	4.14	12.2	8.17	8.17	5.70	4.03			4	0.1	0.17	0.1	0.1
Total HxCDDs	ng/kg	dw	4	0.24	102	43.4	35.7	51.3	25.7	0.31	-4.26	2	0.1	0.12	0.1	0.1
1,2,3,4,7,8-HxCDF	ng/kg	dw	4	0.14	147	65.2	56.8	75.6	37.8	0.18	-4.96	2	0.1	0.11	0.1	0.1
1,2,3,6,7,8-HxCDF	ng/kg	dw	3	1.65	33	21.6	30	17.3	9.99	-1.67		3	0.1	0.1	0.1	0.1
1,2,3,7,8,9-HxCDF	ng/kg	dw	2	2.72	7.79	5.26	5.26	3.59	2.54			4	0.1	0.37	0.2	0.1
2,3,4,6,7,8-HxCDF	ng/kg	dw	3	1.07	21.5	9.39	5.61	10.7	6.19	1.39		3	0.1	0.1	0.1	0.1
Total HxCDFs	ng/kg	dw	3	9.9	415	253	335	215	124	-1.47		3	0.1	0.1	0.1	0.1
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	5	0.11	108	37.1	0.45	51.6	23.1	0.81	-2.15	1	0.39	0.39	0.4	0.4
Total HpCDDs	ng/kg	dw	5	0.28	247	78.3	0.79	112.7	50.4	1.07	-0.74	1	0.1	0.1	0.1	0.1
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	3	1.68	176	93.9	104	87.6	50.6	-0.51		3	0.1	0.29	0.2	0.2
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	2	61	65	63.0	63	2.83	2.0			4	0.1	0.17	0.1	0.1
Total HpCDFs	ng/kg	dw	4	0.16	388	184	175	213	106	0.03	-5.82	2	0.1	0.1	0.1	0.1
OCDD	ng/kg	dw	3	1.77	888	456	477	444	256	-0.22		3	0.66	2.6	1.7	1.7
OCDF	ng/kg	dw	3	0.18	610	393	569	341	197	-1.70		3	0.12	0.5	0.3	0.3

Table G1-9. Summary Statistics for Lake Sediment Samples Collected by Honeywell/Exponent in 2000 (400 to 500 cm depth)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Total organic carbon	%	dw	17	0.49	44.5	7.7	6.05	9.62	2.33	3.91	15.9					
Total solids	%	dw	17	49.5	78	57.8	56.6	6.90	1.67	1.58	3.57					
Percent clay	%	dw	17	13	40	21.1	20	7.08	1.72	1.16	1.68					
Percent silt	%	dw	17	47	83	65.9	67	9.15	2.22	-0.47	0.16					
Percent sand	%	dw	17	2	36	13.0	12	7.83	1.90	1.50	3.96					
Total Metals and Cyanide																
Aluminum	mg/kg	dw	24	4,450	16,100	8,680	8,240	3,220	657	0.61	-0.46					
Antimony	mg/kg	dw	11	0.3	1.5	0.62	0.59	0.33	0.10	2.08	5.60	13	0.25	0.66	0.38	0.34
Arsenic	mg/kg	dw	24	0.89	29.2	6.75	3.75	6.83	1.39	2.06	4.36					
Barium	mg/kg	dw	24	26.7	1,050	205	106	264	53.8	2.37	4.85					
Beryllium	mg/kg	dw	24	0.15	1.4	0.49	0.47	0.24	0.05	2.44	8.93					
Cadmium	mg/kg	dw	14	8.1E-02	4.8	1.08	0.46	1.39	0.37	1.81	3.26	10	3.6E-02	9.7E-02	0.05	0.05
Calcium	mg/kg	dw	24	87,500	350,000	198,000	187,000	86,300	17,600	0.41	-1.22					
Chromium	mg/kg	dw	24	8.1	72.5	23.6	16.5	17.1	3.50	1.57	1.84					
Cobalt	mg/kg	dw	24	1.4	9.4	4.54	4.20	1.92	0.39	0.72	0.43					
Copper	mg/kg	dw	24	7.4	235	42.4	29.6	50.4	10.3	2.79	9.23					
Cyanide	mg/kg	dw	7	0.94	41	8.96	3.70	14.5	5.47	2.41	5.94	17	0.65	1.00	0.87	0.86
Iron	mg/kg	dw	24	5,310	26,400	14,000	14,100	5,780	1,180	0.40	-0.51					
Lead	mg/kg	dw	24	2.7	319	46.5	26.8	70.4	14.4	2.92	9.86					
Magnesium	mg/kg	dw	24	5,420	24,900	12,400	11,700	5,520	1,130	0.99	0.44					
Manganese	mg/kg	dw	24	219	1,220	420	334	253	51.6	2.41	5.49					
Total Mercury	mg/kg	dw	18	5.2E-02	28.9	3.56	0.77	7.17	1.69	3.06	9.91	6	3.6E-02	5.7E-02	0.05	0.05
Nickel	mg/kg	dw	24	8.2	85.1	22.5	16.7	17.0	3.48	2.40	7.29					
Potassium	mg/kg	dw	24	149	3,700	1,830	2,030	1,050	213	-0.15	-0.63					
Selenium	mg/kg	dw	21	0.5	2	1.18	1.20	0.37	0.08	0.38	0.06	3	0.63	1.3	0.89	0.73
Silver	mg/kg	dw	7	0.18	6.4	1.31	0.41	2.27	0.86	2.53	6.48	17	9.8E-02	0.26	0.15	0.13
Sodium	mg/kg	dw	24	4,190	25,100	11,500	9,300	6,440	1,310	0.76	-0.65					
Thallium	mg/kg	dw	2	1.2	1.8	1.50	1.50	0.42	0.30			22	0.64	1.7	0.98	0.91
Vanadium	mg/kg	dw	24	7.6	31	16.1	15.7	5.82	1.19	0.68	0.56					
Zinc	mg/kg	dw	24	25.4	574	104	71.1	112	22.9	3.48	14.0					
Volatile Organic Compounds																
Benzene	µg/kg	dw	9	2.3	6,300	959.7	48	2,100	698	2.58	6.82	10	6.3	10	8.61	8.7
Toluene	µg/kg	dw	8	2.1	8,900	2,260	26	3,870	1,370	1.42	0.04	11	6.3	10	8.69	8.9
Ethylbenzene	µg/kg	dw	7	23	15,000	2,450	99	5,570	2,100	2.58	6.73	12	6.3	18	9.47	8.9
Styrene	µg/kg	dw	1	150	150	150	150					18	6.3	1,800	197	9.4
Xylene(m,p)	µg/kg	dw	7	74	89,000	18,100	190	33,800	12,800	2.02	3.83	12	6.3	18	9.47	8.9
Xylene(o)	µg/kg	dw	7	44	34,000	6,720	100	12,800	4,840	2.12	4.37	12	6.3	18	9.47	8.9
Xylene (Total)																
Chlorobenzene	µg/kg	dw	5	2.9	9,400	2,740	7.2	4,160	1,860	1.37	0.92	14	6.3	86	14.9	8.90
1,2-Dichlorobenzene	µg/kg	dw	3	710	5,000	3,000	3,300	2,160	1,250	-0.61		21	41	1,100	111	61.0
1,3-Dichlorobenzene	µg/kg	dw	1	700	700	700	700					23	41	1,100	174	62.0
1,4-Dichlorobenzene	µg/kg	dw	3	3,000	4,400	3,770	3,900	709	410	-0.82		21	41	1,100	111	61.0
1,2,4-Trichlorobenzene	µg/kg	dw	1	440	440	440	440					23	41	1,100	174	62.0
Chloromethane	µg/kg	dw										19	6.3	1,800	191	9.4
Bromomethane	µg/kg	dw										19	6.3	1,800	191	9.4
Chloroethane	µg/kg	dw										19	6.3	1,800	191	9.4
Methylene chloride	µg/kg	dw										19	6.3	1,800	191	9.4

Table G1-9. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	DETECTS Minimum Detection	DETECTS Maximum Detection	DETECTS Mean	DETECTS Median	DETECTS Standard Deviation	DETECTS Standard Error	DETECTS Skewness	DETECTS Kurtosis	NON-DETECTS N	NON-DETECTS Minimum Detection Limit	NON-DETECTS Maximum Detection Limit	NON-DETECTS Mean	NON-DETECTS Median
1,1-Dichloroethane	µg/kg	dw										19	6.3	1,800	191	9.4
Chloroform	µg/kg	dw										19	6.3	1,800	191	9.4
1,2-Dichloroethane	µg/kg	dw										19	6.3	1,800	191	9.4
1,1,1-Trichloroethane	µg/kg	dw										19	6.3	1,800	191	9.4
Carbon tetrachloride	µg/kg	dw										19	6.3	1,800	191	9.4
Bromodichloromethane	µg/kg	dw										19	6.3	1,800	191	9.4
1,2-Dichloropropane	µg/kg	dw										19	6.3	1,800	191	9.4
Dibromochloromethane	µg/kg	dw										19	6.3	1,800	191	9.4
1,1,2-Trichloroethane	µg/kg	dw										19	6.3	1,800	191	9.4
Bromoform	µg/kg	dw										19	6.3	1,800	191	9.4
1,1,2,2-Tetrachloroethane	µg/kg	dw										19	6.3	1,800	191	9.4
Vinyl chloride	µg/kg	dw										19	6.3	1,800	191	9.4
1,1-Dichloroethene	µg/kg	dw										19	6.3	1,800	191	9.4
cis-1,2-Dichloroethene	µg/kg	dw										19	6.3	1,800	191	9.4
trans-1,2-Dichloroethene	µg/kg	dw										19	6.3	1,800	191	9.4
cis-1,3-Dichloropropene	µg/kg	dw										19	6.3	1,800	191	9.4
trans-1,3-Dichloropropene	µg/kg	dw										19	6.3	1,800	191	9.4
Trichloroethene	µg/kg	dw	2	14	110	62.0	62	67.9	48.0			17	6.3	1,800	208	9.4
Tetrachloroethene	µg/kg	dw										19	6.3	1,800	191	9.4
Acetone	µg/kg	dw	15	15	1,100	225	110	359	92.7	2.30	4.03	4	25	7,200	3,440	3,270
2-Butanone	µg/kg	dw	15	9.2	240	59.1	36	71.9	18.6	1.98	2.90	4	13	3,600	1,730	1,660
2-Hexanone	µg/kg	dw	1	6.5	6.5	6.5	6.5					18	13	3,600	408	19.0
4-Methyl-2-pentanone	µg/kg	dw	1	6.9	6.9	6.9	6.9					18	13	3,600	408	19.0
Carbon disulfide	µg/kg	dw	12	2.9	48	21.3	24.5	15.0	4.33	0.21	-1.14	7	9.4	3,600	999	20.0
Semivolatile Organic Compounds																
Hexachlorobenzene	µg/kg	dw										24	41	1,100	179	62.0
Hexachlorobenzene (GC/ECD)	µg/kg	dw	6	1.62	159	38.8	9.49	62.0	25.3	1.99	3.93	17	1	1	1	1
Benzyl Alcohol	µg/kg	dw										24	210	5,400	908	320
2-Chloronaphthalene	µg/kg	dw										24	41	1,100	179	62.0
Naphthalene	µg/kg	dw	10	59	85,000	20,800	2,750	30,700	9,710	1.47	1.00	14	41	66	58.3	59.5
Acenaphthylene	µg/kg	dw	7	74	3,300	1,080	300	1,430	539	1.18	-0.81	17	41	740	102	61.0
Acenaphthene	µg/kg	dw	7	170	16,000	3,490	400	5,890	2,230	2.09	4.25	17	41	920	152	61.0
Fluorene	µg/kg	dw	9	35	21,000	3,690	580	7,060	2,350	2.32	5.28	15	41	740	107	61.0
Phenanthrene	µg/kg	dw	14	94	60,000	6,900	935	16,200	4,340	3.15	10.3	10	41	66	56.8	57.5
Anthracene	µg/kg	dw	8	110	18,000	3,320	1,070	6,050	2,140	2.63	7.07	16	41	920	158	61.5
2-Methylnaphthalene	µg/kg	dw	9	120	12,000	3,860	2,400	4,610	1,540	1.20	-0.09	15	41	110	61.7	60.0
Fluoranthene	µg/kg	dw	13	100	40,000	4,960	830	10,800	3,000	3.28	11.2	11	41	740	119	58.0
Pyrene	µg/kg	dw	12	110	25,000	3,720	1,150	6,970	2,010	3.03	9.75	12	41	920	186	59.0
Benz(a)anthracene	.g/kg	dw	10	89	19,000	2,880	1,160	5,740	1,810	3.01	9.30	14	41	920	172	61.0
Chrysene	µg/kg	dw	12	58	18,000	2,340	605	5,020	1,450	3.26	10.9	12	41	920	186	59.0
Benzo(b)fluoranthene	µg/kg	dw	9	78	11,000	1,870	700	3,480	1,160	2.84	8.25	15	41	920	164	62.0
Benzo(k)fluoranthene	µg/kg	dw	9	110	11,000	1,920	790	3,460	1,150	2.84	8.25	15	41	920	164	62.0
Benzo(a)pyrene	µg/kg	dw	10	70	13,000	2,100	770	3,920	1,240	2.92	8.82	14	41	920	171	61.0
Indeno(1,2,3-cd)pyrene	µg/kg	dw	8	100	7,300	1,450	665	2,400	849	2.65	7.22	16	41	920	158	61.5
Dibenz(a,h)anthracene	µg/kg	dw	7	42	3,500	675.1	260	1,250	474	2.57	6.70	17	41	1,100	213	62.0
Benzo(g,h,i)perylene	µg/kg	dw	8	96	6,600	1,400	705	2,160	762	2.56	6.82	16	41	920	158	61.5
Phenol	µg/kg	dw	4	890	10,000	4,670	3,900	4,260	2,130	0.62	-2.33	20	41	300	71.4	60.5
2-Methylphenol	µg/kg	dw										24	41	1,100	179	62.0
4-Methylphenol	µg/kg	dw	5	67	5,900	1,580	860	2,440	1,090	2.10	4.52	19	41	1,100	130	62.0
2,4-Dimethylphenol	µg/kg	dw										24	210	5,400	908	320
2-Chlorophenol	µg/kg	dw										24	41	1,100	179	62.0

Table G1-9. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
2,4-Dichlorophenol	µg/kg	dw										24	210	5,400	908	320
4-Chloro-3-methylphenol	µg/kg	dw										24	210	5,400	908	320
2,4,6-Trichlorophenol	µg/kg	dw										24	210	5,400	908	320
2,4,5-Trichlorophenol	µg/kg	dw										24	210	5,400	908	320
Pentachlorophenol	µg/kg	dw										24	1,100	27,000	4,570	1,600
2-Nitrophenol	µg/kg	dw										24	210	5,400	908	320
4-Nitrophenol	µg/kg	dw										24	1,100	27,000	4,570	1,600
2,4-Dinitrophenol	µg/kg	dw										24	1,100	27,000	4,570	1,600
2-Methyl-4,6-dinitrophenol	µg/kg	dw										24	1,100	27,000	4,570	1,600
Hexachloroethane	µg/kg	dw										24	41	1,100	179	62.0
Hexachlorobutadiene	µg/kg	dw										24	41	1,100	179	62.0
Hexachlorocyclopentadiene	µg/kg	dw										24	210	5,400	908	320
Bis(2-chloroethyl)ether	µg/kg	dw										24	41	1,100	179	62.0
4-Chlorophenyl-phenyl ether	µg/kg	dw										24	41	1,100	179	62.0
4-Bromophenyl-phenyl ether	µg/kg	dw										24	41	1,100	179	62.0
Bis(2-chloroethoxy)methane	µg/kg	dw										24	41	1,100	179	62.0
2,2'-Oxybis(1-chloropropane)	µg/kg	dw										24	41	1,100	179	62.0
Dimethyl phthalate	µg/kg	dw										24	41	1,100	179	62.0
Diethyl phthalate	µg/kg	dw										24	41	1,100	179	62.0
Di-n-butyl phthalate	µg/kg	dw										24	50	1,100	231	62.5
Butylbenzyl phthalate	µg/kg	dw										24	41	1,100	179	62.0
Bis(2-ethylhexyl)phthalate	µg/kg	dw	4	33	560	193	88.5	247	123	1.92	3.76	20	37	1,100	190	61.5
Di-n-octyl phthalate	µg/kg	dw										24	41	1,100	179	62.0
Isophorone	µg/kg	dw										24	41	1,100	179	62.0
Dibenzofuran	µg/kg	dw	7	42	15,000	3,240	300	5,690	2,150	1.93	3.36	17	41	740	102	61.0
Carbazole	µg/kg	dw	6	48	3,900	1,140	76	1,710	699	1.18	-0.64	18	41	920	147	61.5
Nitrobenzene	µg/kg	dw										24	41	1,100	179	62.0
N-nitroso-di-n-propylamine	µg/kg	dw										24	41	1,100	179	62.0
2-Nitroaniline	µg/kg	dw										24	84	2,100	360	130
3-Nitroaniline	µg/kg	dw										24	1,100	27,000	4,570	1,600
4-Nitroaniline	µg/kg	dw										24	1,100	27,000	4,570	1,600
2,6-Dinitrotoluene	µg/kg	dw										24	210	5,400	908	320
2,4-Dinitrotoluene	µg/kg	dw										24	210	5,400	908	320
N-Nitrosodiphenylamine	µg/kg	dw										24	41	1,100	179	62.0
N-Nitrosodimethylamine	µg/kg	dw										24	210	5,400	908	320
4-Chloroaniline	µg/kg	dw										23	41	1,100	184	62.0
3,3-Dichlorobenzidine	µg/kg	dw										24	41	1,100	179	62.0
Pesticides/Polychlorinated Biphenyls																
alpha-BHC	µg/kg	dw	1	1.84	1.84	1.84	1.84					17	1.0	1.0	1.0	1.0
beta-BHC	µg/kg	dw	4	1.65	5.16	3.52	3.63	1.50	0.75	-0.37	-0.65	15	1.0	1.0	1.0	1.0
delta-BHC	µg/kg	dw										10	1.0	1.0	1.0	1.0
gamma-BHC (Lindane)	µg/kg	dw	2	1.62	1.69	1.66	1.66	0.05	0.03			16	1.0	1.0	1.0	1.0
Aldrin	µg/kg	dw	1	12.2	12.2	12.2	12.2					17	1.0	1.0	1.0	1.0
alpha-Chlordane	µg/kg	dw	2	1.38	3.74	2.56	2.56	1.67	1.18			17	1.0	1.0	1.0	1.0
gamma-Chlordane	µg/kg	dw	1	1.21	1.21	1.21	1.21					18	1.0	1.0	1.0	1.0
Dieldrin	µg/kg	dw	4	1.41	4.3	2.85	2.85	1.18	0.59	0.01	1.26	18	1.0	1.0	1.0	1.0
Endosulfan I	µg/kg	dw										18	1.0	1.0	1.0	1.0
Endosulfan II	µg/kg	dw										18	1.0	1.0	1.0	1.0
Endosulfan sulfate	µg/kg	dw	6	3	7.38	4.53	3.82	1.79	0.73	0.95	-0.62	5	1.0	1.0	1.0	1.0
Endrin	µg/kg	dw	1	3.59	3.59	3.59	3.59					17	1.0	1.0	1.0	1.0

Table G1-9. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Endrin aldehyde	µg/kg	dw	1	7.08	7.08	7.08	7.08					17	1.0	1.0	1.0	1.0
Endrin ketone	µg/kg	dw	1	5.65	5.65	5.65	5.65					17	1.0	1.0	1.0	1.0
Heptachlor	µg/kg	dw										18	1.0	1.0	1.0	1.0
Heptachlor epoxide	µg/kg	dw	1	2.22	2.22	2.22	2.22					16	1.0	1.0	1.0	1.0
Methoxychlor	µg/kg	dw	1	9.84	9.84	9.84	9.84					17	1.0	1.0	1.0	1.0
4,4'-DDD	µg/kg	dw	3	1.34	7.92	5.21	6.37	3.44	1.99	-1.34		17	1.0	1.0	1.0	1.0
4,4'-DDE	µg/kg	dw	2	2.54	2.82	2.68	2.68	0.20	0.14			17	1.0	1.0	1.0	1.0
4,4'-DDT	µg/kg	dw	4	3.7	5.83	4.66	4.55	0.91	0.46	0.60	-0.24	12	1.0	1.0	1.0	1.0
Toxaphene	µg/kg	dw										18	1.0	100	83.5	100
Aroclor 1016	µg/kg	dw										24	50	300	70.8	50.0
Aroclor 1221	µg/kg	dw										24	50	300	70.8	50.0
Aroclor 1232	µg/kg	dw										24	50	300	70.8	50.0
Aroclor 1242	µg/kg	dw	2	122	269	196	196	104	73.5			22	50	150	56.8	50.0
Aroclor 1248	µg/kg	dw										24	50	300	70.8	50.0
Aroclor 1254	µg/kg	dw	4	44.9	78.1	63.8	66	13.9	6.94	-0.92	1.68	20	50	300	65.0	50.0
Aroclor 1260	µg/kg	dw	2	12.2	66.7	39.5	39.5	38.5	27.3			22	50	150	61.4	50.0
Aroclor 1268	µg/kg	dw	1	355	355	355	355					23	50	300	67.4	50.0
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	2	0.26	3	1.63	1.63	1.94	1.37			5	0.1	0.18	0.1	0.1
Total TCDDs	ng/kg	dw	2	5.94	35.1	20.5	20.5	20.6	14.6			5	0.1	0.18	0.1	0.1
2,3,7,8-TCDF	ng/kg	dw	3	1.69	46.5	18.1	6	24.7	14.3	1.67		4	0.1	0.1	0.1	0.1
Total TCDFs	ng/kg	dw	5	0.14	428	102	39.5	183	82.0	2.17	4.75	2	0.1	0.1	0.1	0.1
1,2,3,7,8-PeCDD	ng/kg	dw	2	0.51	6.08	3.29	3.29	3.94	2.79			5	0.1	0.18	0.1	0.1
Total PeCDDs	ng/kg	dw	2	3.46	32.1	17.8	17.8	20.3	14.3			5	0.1	0.18	0.1	0.1
1,2,3,7,8-PeCDF	ng/kg	dw	3	0.65	12.1	5.05	2.40	6.17	3.56	1.58		4	0.1	0.1	0.1	0.1
2,3,4,7,8-PeCDF	ng/kg	dw	3	1.3	28.2	10.6	2.22	15.3	8.82	1.72		4	0.1	0.1	0.1	0.1
Total PeCDFs	ng/kg	dw	3	8.41	179	70.5	24.2	94.3	54.4	1.68		4	0.1	0.1	0.1	0.1
1,2,3,4,7,8-HxCDD	ng/kg	dw	2	0.46	1.29	0.88	0.88	0.59	0.41			5	0.1	0.18	0.1	0.1
1,2,3,6,7,8-HxCDD	ng/kg	dw	2	1.99	6.9	4.45	4.45	3.47	2.46			5	0.1	0.18	0.1	0.1
1,2,3,7,8,9-HxCDD	ng/kg	dw	2	1.36	5.53	3.45	3.45	2.95	2.09			5	0.1	0.18	0.1	0.1
Total HxCDDs	ng/kg	dw	2	19.9	32.3	26.1	26.1	8.77	6.20			5	0.1	0.18	0.1	0.1
1,2,3,4,7,8-HxCDF	ng/kg	dw	3	0.69	54	19.7	4.41	29.8	17.2	1.70		4	0.1	0.1	0.1	0.1
1,2,3,6,7,8-HxCDF	ng/kg	dw	3	0.49	9.31	3.71	1.34	4.9	2.81	1.67		4	0.1	0.1	0.1	0.1
1,2,3,7,8,9-HxCDF	ng/kg	dw	1	1.62	1.62	1.62	1.62					6	0.1	0.19	0.1	0.1
2,3,4,6,7,8-HxCDF	ng/kg	dw	3	0.28	3.52	1.60	1.0	1.7	0.98	1.39		4	0.1	0.1	0.1	0.1
Total HxCDFs	ng/kg	dw	3	3.11	104	44.5	26.5	52.8	30.5	1.36		4	0.1	0.1	0.1	0.1
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	4	0.24	27.1	9.34	5.0	12.6	6.32	1.36	1.23	3	0.27	0.34	0.3	0.3
Total HpCDDs	ng/kg	dw	7	0.24	62.5	11.4	0.64	23.2	8.76	2.38	5.75					
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	4	0.13	23.6	10.7	9.55	12.0	6.01	0.16	-5.04	3	0.1	0.14	0.1	0.1
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	2	1.3	15.4	8.35	8.35	10.0	7.05			5	0.1	0.18	0.1	0.1
Total HpCDFs	ng/kg	dw	3	0.81	55.5	33.0	42.7	28.6	16.5	-1.35		4	0.1	0.1	0.1	0.1
OCDD	ng/kg	dw	2	18	249	134	134	163	116			5	0.81	2.2	1.7	2.0
OCDF	ng/kg	dw	2	35.5	90.2	62.9	62.9	38.7	27.4			5	0.17	0.28	0.2	0.2

Table G1-10. Summary Statistics for Lake Sediment Samples Collected by Honeywell/Exponent in 2000 (500 to 600 cm depth)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Total organic carbon	%	dw	19	0.49	9.9	5.90	6.02	2.09	0.48	-0.50	1.71					
Total solids	%	dw	19	50	83	59.0	56	7.63	1.75	1.81	4.48					
Percent clay	%	dw	19	10	42	23.2	21	8.25	1.89	1.07	1.04					
Percent silt	%	dw	19	42	77	65.2	68	8.62	1.98	-1.24	1.68					
Percent sand	%	dw	19	0	35	11.7	12	7.53	1.73	1.53	4.42					
Total Metals and Cyanide																
Aluminum	mg/kg	dw	26	3,500	15,100	8,600	7,550	3,360	660	0.56	-0.85					
Antimony	mg/kg	dw	9	0.35	1	0.70	0.73	0.22	0.07	-0.55	-0.77	17	0.23	0.73	0.35	0.34
Arsenic	mg/kg	dw	26	1.3	67.2	7.90	2.85	14.0	2.74	3.68	14.2					
Barium	mg/kg	dw	26	30	954	147	101	179	35.2	4.08	17.8					
Beryllium	mg/kg	dw	26	3.8E-02	2.4	0.54	0.43	0.47	0.09	3.12	10.7					
Cadmium	mg/kg	dw	13	7.3E-02	3.5	0.98	0.47	1.15	0.32	1.21	0.27	13	3.4E-02	0.11	0.05	0.05
Calcium	mg/kg	dw	26	46,700	345,000	192,000	192,000	82,100	16,100	0.33	-0.51					
Chromium	mg/kg	dw	26	7.9	68.7	20.1	14.8	15.1	2.97	2.08	4.24					
Cobalt	mg/kg	dw	26	1.4	13.9	4.71	4.05	2.62	0.51	1.97	5.21					
Copper	mg/kg	dw	26	6.8	131	34.2	14.2	36.9	7.24	1.57	1.47					
Cyanide	mg/kg	dw	6	0.98	37	11.2	4.50	14.2	5.81	1.54	1.76	20	0.6	1.50	0.90	0.91
Iron	mg/kg	dw	26	4,270	43,500	1,400	13,100	8,130	1,590	1.94	5.41					
Lead	mg/kg	dw	26	2.7	205	32.2	7.75	51.3	10.1	2.36	5.21					
Magnesium	mg/kg	dw	26	6,230	24,100	11,800	9,360	5,590	1,100	0.72	-0.76					
Manganese	mg/kg	dw	26	168	1,490	398	329	282	55.23	3.11	10.1					
Total Mercury	mg/kg	dw	16	5.5E-02	6.2	1.21	0.66	1.67	0.42	2.16	4.92	10	4.2E-02	0.055	0.05	0.05
Nickel	mg/kg	dw	26	8.7	62.9	18.4	14.7	12.3	2.42	2.39	6.43					
Potassium	mg/kg	dw	26	111	3,550	1,890	1,950	962	189	-0.32	-0.15					
Selenium	mg/kg	dw	23	0.71	2.5	1.24	1.10	0.47	0.10	1.20	1.22	3	0.45	0.90	0.65	0.60
Silver	mg/kg	dw	7	0.2	1.3	0.70	0.66	0.43	0.16	0.21	-1.77	19	9.1E-02	0.29	0.14	0.13
Sodium	mg/kg	dw	26	5,120	31,400	14,300	12,500	7,590	1,490	0.84	-0.13					
Thallium	mg/kg	dw										26	0.59	1.90	0.94	0.89
Vanadium	mg/kg	dw	26	5.2	51	16.5	14.2	9.85	1.93	2.16	5.72					
Zinc	mg/kg	dw	26	24.7	252	84.9	51.2	67.7	13.3	1.41	0.82					
Volatile Organic Compounds																
Benzene	µg/kg	dw	6	2.2	4,400	917.6	102	1,740	710	2.26	5.16	14	6	20	9.28	8.70
Toluene	µg/kg	dw	6	8.9	20,000	4,140	856	7,870	3,210	2.32	5.46	14	6	10	8.56	8.70
Ethylbenzene	µg/kg	dw	5	9.3	4,900	1,240	640	2,070	925	2.11	4.54	15	6	20	9.33	9.00
Styrene	µg/kg	dw	2	420	3,200	1,810	1,810	1,970	1,390			18	6	1,500	92.2	9.20
Xylene(m,p)	µg/kg	dw	6	3	56,000	12,400	3,080	21,900	8,940	2.20	4.98	14	6	20	9.32	8.70
Xylene(o)	µg/kg	dw	5	7.9	14,000	4,070	1,500	5,890	2,630	1.70	2.74	15	6	20	9.33	9.00
Xylene (Total)																
Chlorobenzene	µg/kg	dw	2	1,400	16,000	8,700	8,700	10,300	7,300			18	6	80	13.3	9.20
1,2-Dichlorobenzene	µg/kg	dw	2	1,400	1,600	1,500	1,500	141	100			24	40	500	90.2	61.0
1,3-Dichlorobenzene	µg/kg	dw										26	40	790	126	61.0
1,4-Dichlorobenzene	µg/kg	dw	2	2,400	3,100	2,750	2,750	495	350			24	40	500	90.2	61.0
1,2,4-Trichlorobenzene	µg/kg	dw										26	40	790	126	61.0
Chloromethane	µg/kg	dw										20	6	1,500	162	9.35
Bromomethane	µg/kg	dw										20	6	1,500	162	9.35
Chloroethane	µg/kg	dw										20	6	1,500	162	9.35
Methylene chloride	µg/kg	dw										20	6	1,500	162	9.35

Table G1-10. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	DETECTS Minimum Detection	DETECTS Maximum Detection	DETECTS Mean	DETECTS Median	DETECTS Standard Deviation	DETECTS Standard Error	DETECTS Skewness	DETECTS Kurtosis	NON-DETECTS N	NON-DETECTS Minimum Detection Limit	NON-DETECTS Maximum Detection Limit	NON-DETECTS Mean	NON-DETECTS Median
1,1-Dichloroethane	µg/kg	dw										20	6	1,500	162	9.35
Chloroform	µg/kg	dw										20	6	1,500	162	9.35
1,2-Dichloroethane	µg/kg	dw										20	6	1,500	162	9.35
1,1,1-Trichloroethane	µg/kg	dw										20	6	1,500	162	9.35
Carbon tetrachloride	µg/kg	dw										20	6	1,500	162	9.35
Bromodichloromethane	µg/kg	dw										20	6	1,500	162	9.35
1,2-Dichloropropane	µg/kg	dw										20	6	1,500	162	9.35
Dibromochloromethane	µg/kg	dw										20	6	1,500	162	9.35
1,1,2-Trichloroethane	µg/kg	dw										20	6	1,500	162	9.35
Bromoform	µg/kg	dw										20	6	1,500	162	9.35
1,1,2,2-Tetrachloroethane	µg/kg	dw										20	6	1,500	162	9.35
Vinyl chloride	µg/kg	dw										20	6	1,500	162	9.35
1,1-Dichloroethene	µg/kg	dw										20	6	1,500	162	9.35
cis-1,2-Dichloroethene	µg/kg	dw										20	6	1,500	162	9.35
trans-1,2-Dichloroethene	µg/kg	dw										20	6	1,500	162	9.35
cis-1,3-Dichloropropene	µg/kg	dw										20	6	1,500	162	9.35
trans-1,3-Dichloropropene	µg/kg	dw										20	6	1,500	162	9.35
Trichloroethene	µg/kg	dw	3	2.4	15	10.5	14.0	7.00	4.04	-1.69		17	6	1,500	188	9.30
Tetrachloroethene	µg/kg	dw										20	6	1,500	162	9.35
Acetone	µg/kg	dw	16	20	1,100	237	125	346	86.5	2.27	4.09	4	24	6,100	3,040	3,020
2-Butanone	µg/kg	dw	16	1.4	230	50.1	32	60.3	15.1	2.23	5.05	4	18	3,000	1,510	1,510
2-Hexanone	µg/kg	dw	2	4.4	4.5	4.45	4.45	0.07	0.05			18	12	3,000	357	19.0
4-Methyl-2-pentanone	µg/kg	dw	2	3.5	5.6	4.55	4.55	1.48	1.05			18	12	3,000	357	19.0
Carbon disulfide	µg/kg	dw	11	2.3	48	27.4	31	16.2	4.90	-0.49	-0.93	9	9.4	3,000	698	19.0
Semivolatile Organic Compounds																
Hexachlorobenzene	µg/kg	dw										26	40	790	125.5	61.0
Hexachlorobenzene (GC/ECD)	µg/kg	dw	6	1.02	35	9.01	2.66	13.3	5.43	2.05	4.17	18	1.0	1.0	1.0	1.0
Benzyl Alcohol	µg/kg	dw										26	200	4,100	647	310
2-Chloronaphthalene	µg/kg	dw										26	40	790	126	61.0
Naphthalene	µg/kg	dw	9	57	67,000	14,800	1,100	23,400	7,790	1.70	2.45	17	40	130	65.3	56.0
Acenaphthylene	µg/kg	dw	7	50	1,300	551	350	517.8	196	0.72	-1.41	19	40	130	64.8	60.0
Acenaphthene	µg/kg	dw	7	57	2,400	988	520	905.4	342	0.56	-1.41	19	40	790	116.3	61.0
Fluorene	µg/kg	dw	9	42	3,200	945	390	1,090	362	1.33	0.95	17	40	130	65.3	56.0
Phenanthrene	µg/kg	dw	13	140	11,000	2,720	480	3,950	1,100	1.45	0.51	13	40	63	55.4	55.0
Anthracene	µg/kg	dw	9	84	3,700	1,210	760	1,330	443	1.09	-0.14	17	40	130	65.3	56.0
2-Methylnaphthalene	µg/kg	dw	9	44	5,000	2,160	1,800	1,920	642	0.49	-1.55	17	40	130	65.3	56.0
Fluoranthene	µg/kg	dw	13	130	6,900	1,580	580	2,190	608	1.67	1.77	13	40	63	55.4	55.0
Pyrene	µg/kg	dw	13	170	9,500	2,060	490	3,230	897	1.93	2.49	13	40	63	55.4	55.0
Benz(a)anthracene	g/kg	dw	12	71	3,800	863	230	1,240	359	1.72	1.96	14	40	310	73.6	55.0
Chrysene	µg/kg	dw	11	81	3,600	913	280	1,230	370	1.51	1.09	15	40	310	77.3	55.0
Benzo(b)fluoranthene	µg/kg	dw	9	36	1,500	504	170	585	195	0.93	-1.14	17	40	790	122	56.0
Benzo(k)fluoranthene	µg/kg	dw	9	49	1,800	563	230	658	219	1.09	-0.36	17	40	790	122	56.0
Benzo(a)pyrene	µg/kg	dw	8	75	2,800	964	395	1,130	401	1.08	-0.65	18	40	790	119	58.5
Indeno(1,2,3-cd)pyrene	µg/kg	dw	5	120	1,200	662	640	486	217	0.04	-2.72	21	40	790	111	61.0
Dibenz(a,h)anthracene	µg/kg	dw	4	54	550	270	238	245	122	0.31	-4.17	22	40	790	129	61.0
Benzo(g,h,i)perylene	µg/kg	dw	6	93	1,800	737	460	737	301	0.79	-1.56	20	40	790	113	61.0
Phenol	µg/kg	dw	4	1,500	8,600	3,850	2,650	3,290	1,640	1.61	2.41	22	40	190	69.7	61.0
2-Methylphenol	µg/kg	dw										26	40	790	126	61.0
4-Methylphenol	µg/kg	dw	3	99	2,800	1,600	1,900	1,380	794	-0.94		23	40	790	120	61.0
2,4-Dimethylphenol	µg/kg	dw										26	200	4,100	647	310
2-Chlorophenol	µg/kg	dw										26	40	790	126	61.0
2,4-Dichlorophenol	µg/kg	dw										26	200	4,100	647	310
4-Chloro-3-methylphenol	µg/kg	dw										26	200	4,100	647	310
2,4,6-Trichlorophenol	µg/kg	dw										26	200	4,100	647	310

Table G1-10. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	DETECTS Minimum Detection	DETECTS Maximum Detection	DETECTS Mean	DETECTS Median	DETECTS Standard Deviation	DETECTS Standard Error	DETECTS Skewness	DETECTS Kurtosis	NON-DETECTS N	NON-DETECTS Minimum Detection Limit	NON-DETECTS Maximum Detection Limit	NON-DETECTS Mean	NON-DETECTS Median
2,4,5-Trichlorophenol	µg/kg	dw										26	200	4,100	647	310
Pentachlorophenol	µg/kg	dw										26	1,000	20,000	3,230	1,600
2-Nitrophenol	µg/kg	dw										26	200	4,100	647	310
4-Nitrophenol	µg/kg	dw										26	1,000	20,000	3,230	1,600
2,4-Dinitrophenol	µg/kg	dw										26	1,000	20,000	3,230	1,600
2-Methyl-4,6-dinitrophenol	µg/kg	dw										26	1,000	20,000	3,230	1,600
Hexachloroethane	µg/kg	dw										26	40	790	126	61.0
Hexachlorobutadiene	µg/kg	dw										26	40	790	126	61.0
Hexachlorocyclopentadiene	µg/kg	dw										26	200	4,100	647	310
Bis(2-chloroethyl)ether	µg/kg	dw										26	40	790	126	61.0
4-Chlorophenyl-phenyl ether	µg/kg	dw										26	40	790	126	61.0
4-Bromophenyl-phenyl ether	µg/kg	dw										26	40	790	126	61.0
Bis(2-chloroethoxy)methane	µg/kg	dw										26	40	790	126	61.0
2,2'-Oxybis(1-chloropropane)	µg/kg	dw										26	40	790	126	61.0
Dimethyl phthalate	µg/kg	dw										26	40	790	126	61.0
Diethyl phthalate	µg/kg	dw										26	40	790	126	61.0
Di-n-butyl phthalate	µg/kg	dw	1	32	32	32.0	32					25	52	790	159	62.0
Butylbenzyl phthalate	µg/kg	dw	1	38	38	38.0	38					25	40	790	128	61.0
Bis(2-ethylhexyl)phthalate	µg/kg	dw	2	43	810	427	427	542	384			24	52	790	132	61.0
Di-n-octyl phthalate	µg/kg	dw										26	40	790	126	61.0
Isophorone	µg/kg	dw										26	40	790	126	61.0
Dibenzofuran	µg/kg	dw	5	78	2,300	690	370	920	412	2.00	4.14	21	40	310	76.4	61.0
Carbazole	µg/kg	dw	2	120	930	525	525	573	405			24	40	790	107	61.0
Nitrobenzene	µg/kg	dw										26	40	790	126	61.0
N-nitroso-di-n-propylamine	µg/kg	dw										26	40	790	126	61.0
2-Nitroaniline	µg/kg	dw										26	81	1,600	254	120
3-Nitroaniline	µg/kg	dw										26	1,000	20,000	3,230	1,600
4-Nitroaniline	µg/kg	dw										26	1,000	20,000	3,230	1,600
2,6-Dinitrotoluene	µg/kg	dw										26	200	4,100	647	310
2,4-Dinitrotoluene	µg/kg	dw										26	200	4,100	647	310
N-Nitrosodiphenylamine	µg/kg	dw										26	40	790	126	61.0
N-Nitrosodimethylamine	µg/kg	dw										26	200	4,100	647	310
4-Chloroaniline	µg/kg	dw										24	40	790	131	61.0
3,3-Dichlorobenzidine	µg/kg	dw										26	40	790	126	61.0
Pesticides/Polychlorinated Biphenyls																
alpha-BHC	µg/kg	dw										21	1.0	1.0	1.0	1.0
beta-BHC	µg/kg	dw	5	1.1	4.5	2.37	2.36	1.40	0.62	0.90	0.40	15	1.0	1.0	1.0	1.0
delta-BHC	µg/kg	dw										11	1.0	1.0	1.0	1.0
gamma-BHC (Lindane)	µg/kg	dw										20	1.0	1.0	1.0	1.0
Aldrin	µg/kg	dw	1	3.71	3.71	3.71	3.71					20	1.0	1.0	1.0	1.0
alpha-Chlordane	µg/kg	dw	2	2.16	2.47	2.32	2.32	0.22	0.15			20	1.0	1.0	1.0	1.0
gamma-Chlordane	µg/kg	dw	2	1.53	3.38	2.46	2.46	1.31	0.92			21	1.0	1.0	1.0	1.0
Dieldrin	µg/kg	dw	3	1.22	4.96	2.53	1.42	2.10	1.21	1.71		21	1.0	1.0	1.0	1.0
Endosulfan I	µg/kg	dw	1	1.73	1.73	1.73	1.73					21	1.0	1.0	1.0	1.0
Endosulfan II	µg/kg	dw	1	1.37	1.37	1.37	1.37					20	1.0	1.0	1.0	1.0
Endosulfan sulfate	µg/kg	dw	4	1.32	5.72	3.03	2.55	1.93	0.97	1.22	1.24	6	1.0	1.0	1.0	1.0
Endrin	µg/kg	dw	3	2.44	3.28	2.77	2.58	0.45	0.26	1.55		19	1.0	1.0	1.0	1.0
Endrin aldehyde	µg/kg	dw	1	3.15	3.15	3.15	3.15					20	1.0	1.0	1.0	1.0
Endrin ketone	µg/kg	dw	1	5.44	5.44	5.44	5.44					20	1.0	1.0	1.0	1.0
Heptachlor	µg/kg	dw										21	1.0	1.0	1.0	1.0
Heptachlor epoxide	µg/kg	dw	1	5.5	5.5	5.50	5.50					21	1.0	1.0	1.0	1.0
Methoxychlor	µg/kg	dw										21	1.0	8.68	1.4	1.0
4,4'-DDD	µg/kg	dw	1	2.44	2.44	2.44	2.44					20	1.0	1.0	1.0	1.0
4,4'-DDE	µg/kg	dw	1	8.74	8.74	8.74	8.74					20	1.0	1.0	1.0	1.0

Table G1-10. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
4,4'-DDT	µg/kg	dw	5	3.42	7.04	4.5	4	1.5	0.66	1.934	3.907	16	1.0	1.0	1.0	1.0
Toxaphene	µg/kg	dw										21	1.0	100	90.6	100
Aroclor 1016	µg/kg	dw										26	50	200	61.5	50.0
Aroclor 1221	µg/kg	dw										26	50	200	61.5	50.0
Aroclor 1232	µg/kg	dw										26	50	200	61.5	50.0
Aroclor 1242	µg/kg	dw	3	17.5	104	62.5	66	43.4	25.0	-0.36		23	50	150	56.5	50.0
Aroclor 1248	µg/kg	dw										26	50	200	61.5	50.0
Aroclor 1254	µg/kg	dw	3	13.1	36.9	24.8	24.4	11.9	6.87	0.15		23	50	200	63.0	50.0
Aroclor 1260	µg/kg	dw	2	13.5	35	24.3	24.3	15.2	10.8			24	50	200	62.5	50.0
Aroclor 1268	µg/kg	dw										26	50	200	61.5	50.0
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	1	0.13	0.13	0.13	0.13					6	0.1	0.22	0.1	0.1
Total TCDDs	ng/kg	dw	5	0.17	9.09	2.83	0.58	3.81	1.70	1.52	1.73	2	0.1	0.1	0.1	0.1
2,3,7,8-TCDF	ng/kg	dw	3	3.32	5.32	4.54	4.97	1.07	0.62	-1.53		4	0.1	0.1	0.1	0.1
Total TCDFs	ng/kg	dw	7	0.14	106	34.2	0.35	45.3	17.1	0.82	-1.28					
1,2,3,7,8-PeCDD	ng/kg	dw	2	0.38	0.52	0.45	0.45	0.10	0.07			5	0.1	0.2	0.1	0.1
Total PeCDDs	ng/kg	dw	2	2.45	2.84	2.65	2.65	0.28	0.20			5	0.1	0.2	0.1	0.1
1,2,3,7,8-PeCDF	ng/kg	dw	3	1.45	2.3	1.82	1.72	0.43	0.25	1.01		4	0.1	0.1	0.1	0.1
2,3,4,7,8-PeCDF	ng/kg	dw	3	2.47	3.11	2.75	2.67	0.33	0.19	1.03		4	0.1	0.1	0.1	0.1
Total PeCDFs	ng/kg	dw	3	24.3	35.5	29.3	28.2	5.69	3.28	0.86		4	0.1	0.1	0.1	0.1
1,2,3,4,7,8-HxCDD	ng/kg	dw	2	0.32	0.33	0.33	0.33	0.00	0.00			5	0.1	0.2	0.1	0.1
1,2,3,6,7,8-HxCDD	ng/kg	dw	2	0.56	1.1	0.83	0.83	0.39	0.27			5	0.1	0.2	0.1	0.1
1,2,3,7,8,9-HxCDD	ng/kg	dw	2	0.63	0.70	0.66	0.66	0.05	0.04			5	0.1	0.2	0.1	0.1
Total HxCDDs	ng/kg	dw	3	0.75	8.74	4.92	5.27	4.01	2.31	-0.39		4	0.1	0.1	0.1	0.1
1,2,3,4,7,8-HxCDF	ng/kg	dw	3	0.75	3.22	2.21	2.65	1.30	0.75	-1.36		4	0.1	0.1	0.1	0.1
1,2,3,6,7,8-HxCDF	ng/kg	dw	3	0.81	1.82	1.32	1.33	0.50	0.29	-0.09		4	0.1	0.1	0.1	0.1
1,2,3,7,8,9-HxCDF	ng/kg	dw										7	0.1	0.28	0.2	0.1
2,3,4,6,7,8-HxCDF	ng/kg	dw	3	0.55	1.44	0.96	0.88	0.45	0.26	0.75		4	0.1	0.1	0.1	0.1
Total HxCDFs	ng/kg	dw	3	5.36	23.6	14.7	15	9.12	5.27	-0.17		4	0.1	0.1	0.1	0.1
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	3	0.71	10.4	4.98	3.82	4.95	2.86	0.99		4	0.2	0.29	0.2	0.2
Total HpCDDs	ng/kg	dw	7	0.30	22.2	4.72	0.54	8.17	3.09	2.14	4.53					
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	3	1.16	23.1	10.2	6.37	11.5	6.62	1.34		4	0.1	0.32	0.2	0.1
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	2	0.59	0.82	0.70	0.70	0.16	0.11			5	0.1	0.2	0.1	0.1
Total HpCDFs	ng/kg	dw	3	1.16	37.7	16.0	9.03	19.2	11.1	1.41		4	0.1	0.1	0.1	0.1
OCDD	ng/kg	dw	3	1.58	88	33.1	9.70	47.7	27.6	1.68		4	1.0	1.9	1.4	1.3
OCDF	ng/kg	dw	3	0.15	18.6	7.61	4.07	9.72	5.61	1.42		4	0.1	0.37	0.2	0.2

Table G1-11. Summary Statistics for Lake Sediment Samples Collected by Honeywell/Exponent in 2000 (600 to 700 cm depth)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Total organic carbon	%	dw	15	3.07	9.3	5.97	6	1.60	0.41	0.49	0.66					
Total solids	%	dw	15	44.4	74.2	57.7	56.8	7.99	2.06	0.66	0.19					
Percent clay	%	dw	15	8	31	19.1	18	6.40	1.65	0.23	-0.43					
Percent silt	%	dw	15	58	86	71.4	70	7.66	1.98	0.16	-0.45					
Percent sand	%	dw	15	4	24	9.53	8	5.11	1.32	1.74	3.76					
Total Metals and Cyanide																
Aluminum	mg/kg	dw	24	2,330	16,500	8,680	7,680	4,000	816	0.48	-0.39					
Antimony	mg/kg	dw	9	0.23	0.91	0.51	0.43	0.24	0.08	0.73	-0.79	15	0.27	0.54	0.39	0.38
Arsenic	mg/kg	dw	24	0.71	44.5	6.37	3.90	9.01	1.84	3.69	15.0					
Barium	mg/kg	dw	24	38.3	1,170	189	99.3	285	58.2	3.07	8.60					
Beryllium	mg/kg	dw	24	0.14	2.1	0.52	0.45	0.38	0.08	3.20	13.1					
Cadmium	mg/kg	dw	14	5.7E-02	3.2	0.82	0.38	0.94	0.25	1.59	2.20	10	0.04	6.3E-02	0.05	0.05
Calcium	mg/kg	dw	24	77,200	414,000	208,000	176,000	96,300	19,700	0.37	-0.92					
Chromium	mg/kg	dw	24	5.2	89.8	20.4	15.5	16.8	3.42	3.32	13.3					
Cobalt	mg/kg	dw	24	0.74	11.8	4.5	4.2	2.6	0.53	0.99	1.37					
Copper	mg/kg	dw	24	5.7	92.3	28.2	16.8	24.0	4.90	1.39	1.14					
Cyanide	mg/kg	dw	7	1.1	24	11.6	6.60	10.2	3.87	0.30	-2.56	17	0.59	1.1	0.87	0.87
Iron	mg/kg	dw	24	3,850	28,400	13,300	13,200	7,010	1,430	0.39	-0.67					
Lead	mg/kg	dw	24	1.9	84.2	22.7	9.10	23.4	4.77	1.22	0.74					
Magnesium	mg/kg	dw	24	3,790	34,400	13,400	11,200	7,880	1,610	1.13	0.81					
Manganese	mg/kg	dw	24	166	1,350	437	329	308	62.8	1.95	3.20					
Total Mercury	mg/kg	dw	14	0.05	2.7	0.84	0.78	0.75	0.20	1.13	1.38	10	3.3E-02	9.8E-02	0.05	0.05
Nickel	mg/kg	dw	24	5.4	53	17.7	15.6	9.68	1.98	2.11	6.92					
Potassium	mg/kg	dw	24	29.3	3,820	1,770	1,810	1,190	244	0.06	-1.07					
Selenium	mg/kg	dw	22	0.61	3.5	1.28	1.20	0.66	0.14	2.12	5.39	2	0.53	0.97	0.75	0.75
Silver	mg/kg	dw	5	0.27	0.99	0.44	0.30	0.31	0.14	2.15	4.67	19	8.9E-02	0.26	0.15	0.13
Sodium	mg/kg	dw	24	4,870	30,200	16,100	16,600	7,050	1,440	0.20	-0.47					
Thallium	mg/kg	dw	1	1.6	1.6	1.6	1.6					23	0.58	1.7	0.98	0.88
Vanadium	mg/kg	dw	24	4.6	49.8	15.7	14.4	9.38	1.91	2.14	6.99					
Zinc	mg/kg	dw	24	26.3	189	74.4	63.2	40.9	8.35	1.11	0.98					
Volatile Organic Compounds																
Benzene	µg/kg	dw	8	2	3,600	740	140	1,230	434	2.26	5.37	10	7.8	10	8.85	8.85
Toluene	µg/kg	dw	7	8.2	19,000	4,440	2,200	6,570	2,480	2.41	6.04	11	7.8	10	8.85	8.90
Ethylbenzene	µg/kg	dw	7	2.8	11,000	2,293	1,200	3,880	1,470	2.53	6.54	11	7.8	10	8.85	8.90
Styrene	µg/kg	dw	4	270	1,000	558	480	351	176	0.67	-2.28	14	7.8	1,500	201	9.00
Xylene(m,p)	µg/kg	dw	8	2.8	120,000	22,100	8,600	40,300	14,200	2.63	7.16	10	7.8	10	8.80	8.85
Xylene(o)	µg/kg	dw	7	3	46,000	9,040	2,600	16,500	6,250	2.50	6.38	11	7.8	10	8.85	8.90
Xylene (Total)																
Chlorobenzene	µg/kg	dw	3	1,300	5,600	3,370	3,200	2,150	1,240	0.35		15	7.8	92	23.0	9.10
1,2-Dichlorobenzene	µg/kg	dw	3	870	2,100	1,490	1,500	615	355	-0.07		21	46	1,900	251	60.0
1,3-Dichlorobenzene	µg/kg	dw	1	2,400	2,400	2,400	2,400					23	46	1,900	298	62.0
1,4-Dichlorobenzene	µg/kg	dw	3	2,200	13,000	5,970	2,700	6,100	3,520	1.72		21	46	1,900	251	60.0
1,2,4-Trichlorobenzene	µg/kg	dw	1	950	950	950	950					23	46	1,900	298	62.0
Chloromethane	µg/kg	dw										18	7.8	1,700	264	9.25
Bromomethane	µg/kg	dw										18	7.8	1,700	264	9.25
Chloroethane	µg/kg	dw										18	7.8	1,700	264	9.25
Methylene chloride	µg/kg	dw										18	7.8	1,700	264	9.25

Table G1-11. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
1,1-Dichloroethane	µg/kg	dw										18	7.8	1,700	264	9.25
Chloroform	µg/kg	dw										18	7.8	1,700	264	9.25
1,2-Dichloroethane	µg/kg	dw										18	7.8	1,700	264	9.25
1,1,1-Trichloroethane	µg/kg	dw										18	7.8	1,700	264	9.25
Carbon tetrachloride	µg/kg	dw										18	7.8	1,700	264	9.25
Bromodichloromethane	µg/kg	dw										18	7.8	1,700	264	9.25
1,2-Dichloropropane	µg/kg	dw										18	7.8	1,700	264	9.25
Dibromochloromethane	µg/kg	dw										18	7.8	1,700	264	9.25
1,1,2-Trichloroethane	µg/kg	dw										18	7.8	1,700	264	9.25
Bromoform	µg/kg	dw										18	7.8	1,700	264	9.25
1,1,2,2-Tetrachloroethane	µg/kg	dw										18	7.8	1,700	264	9.25
Vinyl chloride	µg/kg	dw										18	7.8	1,700	264	9.25
1,1-Dichloroethene	µg/kg	dw										18	7.8	1,700	264	9.25
cis-1,2-Dichloroethene	µg/kg	dw										18	7.8	1,700	264	9.25
trans-1,2-Dichloroethene	µg/kg	dw										18	7.8	1,700	264	9.25
cis-1,3-Dichloropropene	µg/kg	dw										18	7.8	1,700	264	9.25
trans-1,3-Dichloropropene	µg/kg	dw										18	7.8	1,700	264	9.25
Trichloroethene	µg/kg	dw										18	7.8	1,700	264	9.25
Tetrachloroethene	µg/kg	dw										18	7.8	1,700	264	9.25
Acetone	µg/kg	dw	14	14	1300	382	255	409	109	1.37	0.70	4	40	6,600	4,410	5,500
2-Butanone	µg/kg	dw	14	6.9	310	92.6	70.5	92.4	24.7	1.31	0.99	4	18	3,300	2,205	2,750
2-Hexanone	µg/kg	dw	2	3.2	3.8	3.50	3.50	0.42	0.30			16	16	3,300	591	19.5
4-Methyl-2-pentanone	µg/kg	dw	3	2.5	6.4	5.00	6.10	2.17	1.25	-1.69		15	16	3,300	629	20.0
Carbon disulfide	µg/kg	dw	12	2.1	60	23.4	20	19.9	5.74	0.60	-0.94	6	18	3,300	1,500	1,330
Semivolatile Organic Compounds																
Hexachlorobenzene	µg/kg	dw										24	46	1,900	300	63.0
Hexachlorobenzene (GC/ECD)	µg/kg	dw	6	1.02	50	14.8	7.78	18.4	7.53	1.83	3.37	16	1.0	1.06	1.0	1.0
Benzyl Alcohol	µg/kg	dw										24	230	10,000	1,550	325
2-Chloronaphthalene	µg/kg	dw										24	46	1,900	300	63.0
Naphthalene	µg/kg	dw	8	100	190,000	53,300	28,000	64,800	22,900	1.69	2.37	16	46	120	62.3	59.5
Acenaphthylene	µg/kg	dw	4	330	3,500	1,220	530	1,530	763	1.94	3.78	20	46	1,900	208	60.0
Acenaphthene	µg/kg	dw	4	80	38,000	10,400	1,850	18,400	9,200	1.99	3.95	20	46	1,900	242	61.0
Fluorene	µg/kg	dw	6	100	71,000	23,400	3,300	33,600	13,700	0.99	-1.69	18	46	870	144	60.0
Phenanthrene	µg/kg	dw	11	160	160,000	16,400	900	47,700	14,400	3.30	10.9	13	46	66	57.2	58.0
Anthracene	µg/kg	dw	4	260	45,000	12,000	1,330	22,000	11,000	1.99	3.98	20	46	1,900	242	61.0
2-Methylnaphthalene	µg/kg	dw	8	46	60,000	11,100	3,950	20,000	7,050	2.71	7.51	16	46	120	62.3	59.5
Fluoranthene	µg/kg	dw	10	230	56,000	6,580	740	17,400	550	3.14	9.89	14	46	1,900	189	58.5
Pyrene	µg/kg	dw	10	330	34,000	4,240	805	10,500	3,310	3.14	9.88	14	46	1,900	189	58.5
Benz(a)anthracene	g/kg	dw	7	150	11,000	1,970	490	4,000	1,510	2.61	6.86	17	46	1,900	254	60.0
Chrysene	µg/kg	dw	8	190	10,000	1,650	455	390	1,200	2.79	7.81	16	46	1,900	265	59.5
Benzo(b)fluoranthene	µg/kg	dw	7	130	3,900	793	320	1,380	521	2.58	6.73	17	46	1,900	257	60.0
Benzo(k)fluoranthene	µg/kg	dw	7	120	3,400	721	310	1,190	450	2.55	6.60	17	46	1,900	257	60.0
Benzo(a)pyrene	µg/kg	dw	4	340	3,400	1,220	560	1,460	730	1.96	3.89	20	46	1,900	236	61.0
Indeno(1,2,3-cd)pyrene	µg/kg	dw	4	190	1,300	525	305	520	260	1.93	3.80	20	46	1,900	236	61.0
Dibenz(a,h)anthracene	µg/kg	dw	2	94	150	122	122	39.6	28.0			22	46	1,900	312	63.0
Benzo(g,h,i)perylene	µg/kg	dw	4	210	1,200	513	320	461	231	1.92	3.76	20	46	1,900	236	61.0
Phenol	µg/kg	dw	6	940	9,100	3,940	2,850	3,000	1,220	1.20	0.82	18	46	340	77.5	59.5
2-Methylphenol	µg/kg	dw										24	46	1,900	300	63.0
4-Methylphenol	µg/kg	dw	7	95	4,700	1,250	350	1,710	646.58	1.75	2.69	17	46	1,900	313	64.0

Table G1-11. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
2,4-Dimethylphenol	µg/kg	dw										24	230	10,000	1,550	325
2-Chlorophenol	µg/kg	dw										24	46	1,900	300	63.0
2,4-Dichlorophenol	µg/kg	dw										24	230	10,000	1,550	325
4-Chloro-3-methylphenol	µg/kg	dw										24	230	10,000	1,550	325
2,4,6-Trichlorophenol	µg/kg	dw										24	230	10,000	1,550	325
2,4,5-Trichlorophenol	µg/kg	dw										24	230	10,000	1,550	325
Pentachlorophenol	µg/kg	dw										24	1,200	50,000	7,750	1,650
2-Nitrophenol	µg/kg	dw										24	230	10,000	1,550	325
4-Nitrophenol	µg/kg	dw										24	1,200	50,000	7,750	1,650
2,4-Dinitrophenol	µg/kg	dw										24	1,200	50,000	7,750	1,650
2-Methyl-4,6-dinitrophenol	µg/kg	dw										24	1,200	50,000	7,750	1,650
Hexachloroethane	µg/kg	dw										24	46	1,900	300	63.0
Hexachlorobutadiene	µg/kg	dw										24	46	1,900	300	63.0
Hexachlorocyclopentadiene	µg/kg	dw										24	230	10,000	1,550	325
Bis(2-chloroethyl)ether	µg/kg	dw										24	46	1,900	300	63.0
4-Chlorophenyl-phenyl ether	µg/kg	dw										24	46	1,900	300	63.0
4-Bromophenyl-phenyl ether	µg/kg	dw										24	46	1,900	300	63.0
Bis(2-chloroethoxy)methane	µg/kg	dw										24	46	1,900	300	63.0
2,2'-Oxybis(1-chloropropane)	µg/kg	dw										24	46	1,900	300	63.0
Dimethyl phthalate	µg/kg	dw										24	46	1,900	300	63.0
Diethyl phthalate	µg/kg	dw										24	46	1,900	300	63.0
Di-n-butyl phthalate	µg/kg	dw	1	59	59	59.0	59					23	46	1,900	324	64.0
Butylbenzyl phthalate	µg/kg	dw										24	46	1,900	300	63.0
Bis(2-ethylhexyl)phthalate	µg/kg	dw	3	38	200	126	140	81.9	47.3	-0.75		21	38	1,900	327	64.0
Di-n-octyl phthalate	µg/kg	dw										24	46	1,900	300	63.0
Isophorone	µg/kg	dw										24	46	1,900	300	63.0
Dibenzofuran	µg/kg	dw	4	51	37,000	9,740	955	18,200	9,090	1.99	3.98	20	46	1,900	239	61.0
Carbazole	µg/kg	dw	3	160	13,000	4,650	800	7,240	4,180	1.72		21	46	1,900	233	60.0
Nitrobenzene	µg/kg	dw										24	46	1,900	300	63.0
N-nitroso-di-n-propylamine	µg/kg	dw										24	46	1,900	300	63.0
2-Nitroaniline	µg/kg	dw										24	93	3,900	611	130
3-Nitroaniline	µg/kg	dw										23	1,200	50,000	8,030	1,700
4-Nitroaniline	µg/kg	dw										24	1,200	50,000	7,750	1,650
2,6-Dinitrotoluene	µg/kg	dw										24	230	10,000	1,550	325
2,4-Dinitrotoluene	µg/kg	dw										24	230	10,000	1,550	325
N-Nitrosodiphenylamine	µg/kg	dw										24	46	1,900	300	63.0
N-Nitrosodimethylamine	µg/kg	dw										24	230	10,000	1,550	325
4-Chloroaniline	µg/kg	dw										21	52	1,900	335	64.0
3,3-Dichlorobenzidine	µg/kg	dw										24	46	1,900	300	63.0
Pesticides/Polychlorinated Biphenyls																
alpha-BHC	µg/kg	dw										18	1.0	1.06	1.0	1.0
beta-BHC	µg/kg	dw	4	1.04	3.29	2.29	2.42	1.03	0.52	-0.45	-2.69	14	1.0	1.06	1.0	1.0
delta-BHC	µg/kg	dw										11	1.0	1.06	1.0	1.0
gamma-BHC (Lindane)	µg/kg	dw										18	1.0	1.06	1.0	1.0
Aldrin	µg/kg	dw	2	3.38	15.4	9.39	9.39	8.50	6.01			18	1.0	1.06	1.0	1.0
alpha-Chlordane	µg/kg	dw										19	1.0	1.06	1.0	1.0
gamma-Chlordane	µg/kg	dw										19	1.0	1.06	1.0	1.0
Dieldrin	µg/kg	dw	2	1.02	2.14	1.58	1.58	0.79	0.56			18	1.0	1.06	1.0	1.0
Endosulfan I	µg/kg	dw	1	1.28	1.28	1.28	1.28					19	1.0	1.06	1.0	1.0

Table G1-11. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Endosulfan II	µg/kg	dw	1	1.07	1.07	1.07	1.07					18	1.0	1.06	1.0	1.0
Endosulfan sulfate	µg/kg	dw	3	3.04	6.36	4.18	3.13	1.89	1.09	1.73		9	1.0	1.06	1.0	1.0
Endrin	µg/kg	dw										16	1.0	1.06	1.0	1.0
Endrin aldehyde	µg/kg	dw	1	11.2	11.2	11.2	11.2					17	1.0	1.06	1.0	1.0
Endrin ketone	µg/kg	dw	1	1.06	1.06	1.06	1.06					17	1.0	1.06	1.0	1.0
Heptachlor	µg/kg	dw	1	55.7	55.7	55.7	55.7					19	1.0	1.06	1.0	1.0
Heptachlor epoxide	µg/kg	dw	1	1.01	1.01	1.01	1.01					18	1.0	1.06	1.0	1.0
Methoxychlor	µg/kg	dw	1	17.3	17.3	17.3	17.3					17	1.0	1.06	1.0	1.0
4,4'-DDD	µg/kg	dw	1	2.71	2.71	2.71	2.71					18	1.0	1.06	1.0	1.0
4,4'-DDE	µg/kg	dw	1	5.66	5.66	5.66	5.66					19	1.0	1.06	1.0	1.0
4,4'-DDT	µg/kg	dw	3	3.51	12.2	6.52	3.84	4.92	2.84	1.72		14	1.0	1.06	1.0	1.0
Toxaphene	µg/kg	dw										19	1.0	106	89.9	100
Aroclor 1016	µg/kg	dw										24	50	300	65.4	50.0
Aroclor 1221	µg/kg	dw										24	50	300	65.4	50.0
Aroclor 1232	µg/kg	dw										24	50	300	65.4	50.0
Aroclor 1242	µg/kg	dw	3	13.6	516	215	114	266	153	1.46		21	50	66.7	50.9	50.0
Aroclor 1248	µg/kg	dw	1	17.7	17.7	17.7	17.7					23	50	300	66.1	50.0
Aroclor 1254	µg/kg	dw	2	11.5	32.9	22.2	22.2	15.1	10.7			22	50	300	66.8	50.0
Aroclor 1260	µg/kg	dw	3	11.4	53.7	29.5	23.4	21.8	12.6	1.16		21	50	300	62.8	50.0
Aroclor 1268	µg/kg	dw										24	50	300	65.4	50.0
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw										4	0.1	0.1	0.1	0.1
Total TCDDs	ng/kg	dw	1	6.77	6.77	6.77	6.77					3	0.1	0.1	0.1	0.1
2,3,7,8-TCDF	ng/kg	dw	1	0.86	0.86	0.86	0.86					3	0.1	0.1	0.1	0.1
Total TCDFs	ng/kg	dw	3	0.15	14.3	4.96	0.45	8.09	4.67	1.73		1	0.1	0.1	0.1	0.1
1,2,3,7,8-PeCDD	ng/kg	dw	1	0.27	0.27	0.27	0.27					3	0.1	0.1	0.1	0.1
Total PeCDDs	ng/kg	dw	1	4.67	4.67	4.67	4.67					3	0.1	0.1	0.1	0.1
1,2,3,7,8-PeCDF	ng/kg	dw	1	0.79	0.79	0.79	0.79					3	0.1	0.1	0.1	0.1
2,3,4,7,8-PeCDF	ng/kg	dw	1	0.72	0.72	0.72	0.72					3	0.1	0.1	0.1	0.1
Total PeCDFs	ng/kg	dw	1	8.24	8.24	8.24	8.24					3	0.1	0.1	0.1	0.1
1,2,3,4,7,8-HxCDD	ng/kg	dw	1	0.21	0.21	0.21	0.21					3	0.1	0.1	0.1	0.1
1,2,3,6,7,8-HxCDD	ng/kg	dw	1	0.41	0.41	0.41	0.41					3	0.1	0.1	0.1	0.1
1,2,3,7,8,9-HxCDD	ng/kg	dw	1	0.44	0.44	0.44	0.44					3	0.1	0.1	0.1	0.1
Total HxCDDs	ng/kg	dw	1	6.15	6.15	6.15	6.15					3	0.1	0.1	0.1	0.1
1,2,3,4,7,8-HxCDF	ng/kg	dw	3	0.10	1.29	0.52	0.18	0.66	0.38	1.71		1	0.1	0.1	0.1	0.1
1,2,3,6,7,8-HxCDF	ng/kg	dw	2	0.12	0.72	0.42	0.42	0.42	0.30			2	0.1	0.1	0.1	0.1
1,2,3,7,8,9-HxCDF	ng/kg	dw										4	0.1	0.1	0.1	0.1
2,3,4,6,7,8-HxCDF	ng/kg	dw	1	0.61	0.61	0.61	0.61					3	0.1	0.1	0.1	0.1
Total HxCDFs	ng/kg	dw	2	0.18	4.96	2.57	2.57	3.38	2.39			2	0.1	0.1	0.1	0.1
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	2	0.30	2.24	1.27	1.27	1.37	0.97			2	0.28	0.35	0.32	0.32
Total HpCDDs	ng/kg	dw	4	0.29	4.28	1.42	0.55	1.91	0.96	1.97	3.89					
1,2,3,4,6,7,8-HpCDF	ng/kg	dw										4	0.1	3.0	0.85	0.16
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	1	0.24	0.24	0.24	0.24					3	0.1	0.1	0.1	0.1
Total HpCDFs	ng/kg	dw	1	3.65	3.65	3.65	3.65					3	0.1	0.1	0.1	0.1
OCDD	ng/kg	dw	2	2.48	5.88	4.18	4.18	2.4	1.70			2	1.8	2.3	2.05	2.05
OCDF	ng/kg	dw	2	0.33	1.53	0.93	0.93	0.9	0.60			2	0.25	0.28	0.27	0.27

Table G1-12. Summary Statistics for Lake Sediment Samples Collected by Honeywell/Exponent in 2000 (700 to 800 cm depth)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Total organic carbon	%	dw	10	4.08	10.1	5.92	5.65	1.61	0.51	2.16	6.02					
Total solids	%	dw	10	53	64.1	58.6	58.4	3.64	1.15	0.03	-0.68					
Percent clay	%	dw	10	11	27	19.4	19.5	4.70	1.48	-0.45	0.27					
Percent silt	%	dw	10	68	76	70.4	70	2.55	0.81	1.15	1.38					
Percent sand	%	dw	10	4	21	10.3	9.50	5.12	1.62	0.96	0.83					
Total Metals and Cyanide																
Aluminum	mg/kg	dw	15	3,830	12,300	9,240	9,700	2,420	624	-0.61	0.00					
Antimony	mg/kg	dw	4	0.36	0.68	0.50	0.47	0.15	0.07	0.58	-2.41	11	0.3	0.58	0.36	0.34
Arsenic	mg/kg	dw	15	1.1	26.4	4.63	3.00	6.14	1.58	3.63	13.6					
Barium	mg/kg	dw	15	45.7	134	91.1	96.6	23.0	5.94	-0.34	0.14					
Beryllium	mg/kg	dw	15	0.22	0.99	0.48	0.49	0.18	0.05	1.44	4.33					
Cadmium	mg/kg	dw	5	8.2E-02	1.2	0.33	0.11	0.49	0.22	2.23	4.96	10	4.4E-02	7.1E-02	0.05	0.05
Calcium	mg/kg	dw	15	68,800	269,000	160,000	142,000	62,900	16,200	0.76	-0.65					
Chromium	mg/kg	dw	15	6.5	22.8	14.8	15	4.06	1.05	-0.09	0.36					
Cobalt	mg/kg	dw	15	1.6	7.9	4.65	4.60	1.86	0.48	-0.27	-0.48					
Copper	mg/kg	dw	15	7	33	16.4	15.1	6.33	1.64	1.29	2.35					
Cyanide	mg/kg	dw	2	6.6	12	9.30	9.30	3.82	2.70			13	0.78	1.2	0.91	0.89
Iron	mg/kg	dw	15	5,560	20,400	14,292	15,500	4,930	1,270	-0.77	-0.72					
Lead	mg/kg	dw	15	2.2	49.7	12.5	7.10	12.3	3.18	2.27	5.73					
Magnesium	mg/kg	dw	15	4,330	48,900	14,400	10,100	12,100	3,110	2.29	4.85					
Manganese	mg/kg	dw	15	235	671	334	296	110	28.4	2.18	6.20					
Total Mercury	mg/kg	dw	8	4.9E-02	0.85	0.35	0.25	0.32	0.11	0.63	-1.37	7	4.4E-02	5.1E-02	0.05	0.05
Nickel	mg/kg	dw	15	6.9	22.1	14.7	15.1	4.55	1.18	-0.40	-0.71					
Potassium	mg/kg	dw	15	88.9	3,080	1,990	2,260	933	241	-0.75	-0.53					
Selenium	mg/kg	dw	11	0.89	1.8	1.14	1.10	0.25	0.08	1.98	4.73	4	0.63	1.1	0.77	0.67
Silver	mg/kg	dw	1	0.26	0.26	0.3	0.26					14	0.12	0.19	0.14	0.13
Sodium	mg/kg	dw	15	6,780	35,000	18,700	17,200	6,750	1,740	0.77	1.50					
Thallium	mg/kg	dw	1	0.94	0.94	0.94	0.94					14	0.76	1.5	0.94	0.89
Vanadium	mg/kg	dw	15	5.9	22	15.6	16.6	4.44	1.15	-0.62	-0.05					
Zinc	mg/kg	dw	15	28.4	99.9	64.0	61.3	19.1	4.94	0.08	-0.23					
Volatile Organic Compounds																
Benzene	µg/kg	dw	2	9.1	34	21.6	21.55	17.6	12.5			10	7.4	9.9	8.87	8.80
Toluene	µg/kg	dw	2	36	230	133	133	137	97.0			10	7.4	9.9	8.87	8.80
Ethylbenzene	µg/kg	dw	2	27	90	58.5	58.5	44.5	31.5			10	7.4	9.9	8.87	8.80
Styrene	µg/kg	dw	2	20	62	41.0	41	29.7	21.0			10	7.4	9.9	8.87	8.80
Xylene(m,p)	µg/kg	dw	2	110	460	285	285	247	175			10	7.4	9.9	8.87	8.80
Xylene(o)	µg/kg	dw	2	48	180	114	114	93.3	66.0			10	7.4	9.9	8.87	8.80
Xylene (Total)																
Chlorobenzene	µg/kg	dw										12	7.4	15	9.73	9.10

Table G1-12. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
1,2-Dichlorobenzene	µg/kg	dw										15	49	100	62.3	59.0
1,3-Dichlorobenzene	µg/kg	dw										15	49	100	62.3	59.0
1,4-Dichlorobenzene	µg/kg	dw										15	49	100	62.3	59.0
1,2,4-Trichlorobenzene	µg/kg	dw										15	49	100	62.3	59.0
Chloromethane	µg/kg	dw										12	7.4	15	9.73	9.10
Bromomethane	µg/kg	dw										12	7.4	15	9.73	9.10
Chloroethane	µg/kg	dw										12	7.4	15	9.73	9.10
Methylene chloride	µg/kg	dw										12	7.4	15	9.73	9.10
1,1-Dichloroethane	µg/kg	dw										12	7.4	15	9.73	9.10
Chloroform	µg/kg	dw										12	7.4	15	9.73	9.10
1,2-Dichloroethane	µg/kg	dw										12	7.4	15	9.73	9.10
1,1,1-Trichloroethane	µg/kg	dw										12	7.4	15	9.73	9.10
Carbon tetrachloride	µg/kg	dw										12	7.4	15	9.73	9.10
Bromodichloromethane	µg/kg	dw										12	7.4	15	9.73	9.10
1,2-Dichloropropane	µg/kg	dw										12	7.4	15	9.73	9.10
Dibromochloromethane	µg/kg	dw										12	7.4	15	9.73	9.10
1,1,2-Trichloroethane	µg/kg	dw										12	7.4	15	9.73	9.10
Bromoform	µg/kg	dw										12	7.4	15	9.73	9.10
1,1,2,2-Tetrachloroethane	µg/kg	dw										12	7.4	15	9.73	9.10
Vinyl chloride	µg/kg	dw										12	7.4	15	9.73	9.10
1,1-Dichloroethene	µg/kg	dw										12	7.4	15	9.73	9.10
cis-1,2-Dichloroethene	µg/kg	dw										12	7.4	15	9.73	9.10
trans-1,2-Dichloroethene	µg/kg	dw										12	7.4	15	9.73	9.10
cis-1,3-Dichloropropene	µg/kg	dw										12	7.4	15	9.73	9.10
trans-1,3-Dichloropropene	µg/kg	dw										12	7.4	15	9.73	9.10
Trichloroethene	µg/kg	dw	1	3.1	3.1	3.1	3.1					11	7.4	15	9.43	8.90
Tetrachloroethene	µg/kg	dw										12	7.4	15	9.73	9.10
Acetone	µg/kg	dw	12	13	1,100	357	215	355	103	1.13	0.15					
2-Butanone	µg/kg	dw	12	7.3	260	90.8	61	83.3	24.0	0.76	-0.47					
2-Hexanone	µg/kg	dw	3	3	7.3	5.43	6.00	2.21	1.27	-1.08		9	16	30	20.4	19.0
4-Methyl-2-pentanone	µg/kg	dw	4	1.9	12	6.23	5.50	4.68	2.34	0.55	-2.49	8	16	30	20.8	19.0
Carbon disulfide	µg/kg	dw	9	5.4	45	29.9	36	12.2	4.07	-1.00	0.70	3	7.4	20	14.8	17.0
Semivolatile Organic Compounds																
Hexachlorobenzene	µg/kg	dw										15	49	100	62.3	59.0
Hexachlorobenzene (GC/ECD)	µg/kg	dw										12	1.0	1.0	1.0	1.0
Benzyl Alcohol	µg/kg	dw										15	250	520	321	300
2-Chloronaphthalene	µg/kg	dw										15	49	100	62.3	59.0
Naphthalene	µg/kg	dw	4	39	3,800	1,130	332	1,800	901	1.88	3.55	11	49	63	56.6	57.0
Acenaphthylene	µg/kg	dw	2	320	850	585	585	375	265			13	49	64	57.6	58.0
Acenaphthene	µg/kg	dw	3	76	430	205	110	195	113	1.67		12	49	64	57.3	57.5
Fluorene	µg/kg	dw	4	52	940	358	220	403	201	1.60	2.49	11	49	63	56.6	57.0
Phenanthrene	µg/kg	dw	5	240	4,300	1,520	490	1,740	780	1.34	0.80	10	49	63	56.1	56.5
Anthracene	µg/kg	dw	4	100	1,300	548	395	561	280	1.02	-0.40	11	49	63	56.6	57.0
2-Methylnaphthalene	µg/kg	dw	4	43	3,300	1,090	513	1,540	767	1.57	2.20	11	49	63	56.6	57.0
Fluoranthene	µg/kg	dw	6	66	2,100	663	370	745	304	1.92	3.84	9	49	63	56.1	57.0

Table G1-12. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Pyrene	µg/kg	dw	6	73	3,000	949	520	1,120	457	1.56	2.20	9	49	63	56.1	57.0
Benz(a)anthracene	g/kg	dw	5	110	1,200	448	300	453	203	1.55	2.28	10	49	63	56.1	56.5
Chrysene	µg/kg	dw	5	100	1,200	440	300	450	201	1.68	2.88	10	49	63	56.1	56.5
Benzo(b)fluoranthene	µg/kg	dw	4	51	460	213	170	175	87.4	1.32	2.31	11	49	63	56.6	57.0
Benzo(k)fluoranthene	µg/kg	dw	4	65	550	254	200	208	104	1.39	2.49	11	49	63	56.6	57.0
Benzo(a)pyrene	µg/kg	dw	4	72	1,200	523	410	484	242	1.23	1.85	11	49	63	56.6	57.0
Indeno(1,2,3-cd)pyrene	µg/kg	dw	3	110	360	207	150	134	77.5	1.56		12	49	63	57.1	57.5
Dibenz(a,h)anthracene	µg/kg	dw	1	92	92	92	92					14	49	100	60.6	58.5
Benzo(g,h,i)perylene	µg/kg	dw	3	120	600	323	250	248	143	1.21		12	49	63	57.1	57.5
Phenol	µg/kg	dw	3	85	2,200	1,400	1,900	1,140	661	-1.60		12	49	64	57.7	58.5
2-Methylphenol	µg/kg	dw	1	94	94	94	94					14	49	100	62.3	58.5
4-Methylphenol	µg/kg	dw	8	70	3,300	1,060	590	1,160	409	1.12	0.54	7	56	64	60.6	62.0
2,4-Dimethylphenol	µg/kg	dw										15	250	520	321	300
2-Chlorophenol	µg/kg	dw										15	49	100	62.3	59.0
2,4-Dichlorophenol	µg/kg	dw										15	250	520	321	300
4-Chloro-3-methylphenol	µg/kg	dw										15	250	520	321	300
2,4,6-Trichlorophenol	µg/kg	dw										15	250	520	321	300
2,4,5-Trichlorophenol	µg/kg	dw										15	250	520	321	300
Pentachlorophenol	µg/kg	dw										15	1,300	2,600	1,600	1,500
2-Nitrophenol	µg/kg	dw										15	250	520	321	300
4-Nitrophenol	µg/kg	dw										15	1,300	2,600	1,600	1,500
2,4-Dinitrophenol	µg/kg	dw										15	1,300	2,600	1,600	1,500
2-Methyl-4,6-dinitrophenol	µg/kg	dw										15	1,300	2,600	1,600	1,500
Hexachloroethane	µg/kg	dw										15	49	100	62.3	59.0
Hexachlorobutadiene	µg/kg	dw										15	49	100	62.3	59.0
Hexachlorocyclopentadiene	µg/kg	dw										15	250	520	321	300
Bis(2-chloroethyl)ether	µg/kg	dw										15	49	100	62.3	59.0
4-Chlorophenyl-phenyl ether	µg/kg	dw										15	49	100	62.3	59.0
4-Bromophenyl-phenyl ether	µg/kg	dw										15	49	100	62.3	59.0
Bis(2-chloroethoxy)methane	µg/kg	dw										15	49	100	62.3	59.0
2,2'-Oxybis(1-chloropropane)	µg/kg	dw										15	49	100	62.3	59.0
Dimethyl phthalate	µg/kg	dw										15	49	100	62.3	59.0
Diethyl phthalate	µg/kg	dw										15	49	100	62.3	59.0
Di-n-butyl phthalate	µg/kg	dw	1	49	49	49	49					14	49	540	96.7	59.0
Butylbenzyl phthalate	µg/kg	dw										15	49	100	62.3	59.0
Bis(2-ethylhexyl)phthalate	µg/kg	dw	1	34	34	34	34					14	49	300	80.1	58.5
Di-n-octyl phthalate	µg/kg	dw										15	49	100	62.3	59.0
Isophorone	µg/kg	dw										15	49	100	62.3	59.0
Dibenzofuran	µg/kg	dw	2	74	290	182	182	153	108			13	49	100	60.5	58.0
Carbazole	µg/kg	dw										15	49	100	62.3	59.0
Nitrobenzene	µg/kg	dw										15	49	100	62.3	59.0
N-nitroso-di-n-propylamine	µg/kg	dw										15	49	100	62.3	59.0
2-Nitroaniline	µg/kg	dw										15	100	200	127	120
3-Nitroaniline	µg/kg	dw										15	1,300	2,600	1,600	1,500
4-Nitroaniline	µg/kg	dw										15	1,300	2,600	1,600	1,500

Table G1-12. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
2,6-Dinitrotoluene	µg/kg	dw										15	250	520	321	300
2,4-Dinitrotoluene	µg/kg	dw										15	250	520	321	300
N-Nitrosodiphenylamine	µg/kg	dw										15	49	100	62.3	59.0
N-Nitrosodimethylamine	µg/kg	dw										15	250	520	321	300
4-Chloroaniline	µg/kg	dw										14	49	100	62.5	58.5
3,3-Dichlorobenzidine	µg/kg	dw										15	49	100	62.3	59.0
Pesticides/Polychlorinated Biphenyls																
alpha-BHC	µg/kg	dw										12	1.0	1.0	1.0	1.0
beta-BHC	µg/kg	dw	1	1.02	1.02	1.02	1.02					10	1.0	1.0	1.0	1.0
delta-BHC	µg/kg	dw										7	1.0	1.0	1.0	1.0
gamma-BHC (Lindane)	µg/kg	dw	2	1	1.19	1.10	1.10	0.13	0.10			12	1.0	1.0	1.0	1.0
Aldrin	µg/kg	dw										12	1.0	1.0	1.0	1.0
alpha-Chlordane	µg/kg	dw										12	1.0	1.0	1.0	1.0
gamma-Chlordane	µg/kg	dw										12	1.0	1.0	1.0	1.0
Dieldrin	µg/kg	dw	2	1.14	1.26	1.20	1.20	0.08	0.06			12	1.0	1.0	1.0	1.0
Endosulfan I	µg/kg	dw										12	1.0	1.0	1.0	1.0
Endosulfan II	µg/kg	dw										12	1.0	1.0	1.0	1.0
Endosulfan sulfate	µg/kg	dw	2	1.02	1.46	1.24	1.24	0.31	0.22			7	1.0	1.0	1.0	1.0
Endrin	µg/kg	dw										12	1.0	1.0	1.0	1.0
Endrin aldehyde	µg/kg	dw										12	1.0	1.0	1.0	1.0
Endrin ketone	µg/kg	dw										12	1.0	1.0	1.0	1.0
Heptachlor	µg/kg	dw										12	1.0	1.0	1.0	1.0
Heptachlor epoxide	µg/kg	dw	2	1.1	1.83	1.5	1.465	0.5	0.37			10	1.0	1.0	1.0	1.0
Methoxychlor	µg/kg	dw										12	1.0	1.0	1.0	1.0
4,4'-DDD	µg/kg	dw										12	1.0	1.0	1.0	1.0
4,4'-DDE	µg/kg	dw										12	1.0	1.0	1.0	1.0
4,4'-DDT	µg/kg	dw	4	1.01	2.65	1.58	1.32	0.73	0.37	1.75	3.31	9	1.0	1.0	1.0	1.0
Toxaphene	µg/kg	dw										12	1.0	100	83.5	100
Aroclor 1016	µg/kg	dw										15	50	300	83.3	50.0
Aroclor 1221	µg/kg	dw										15	50	300	83.3	50.0
Aroclor 1232	µg/kg	dw										15	50	300	83.3	50.0
Aroclor 1242	µg/kg	dw	2	23.6	162	92.8	92.8	97.9	69.2			13	50	300	88.5	50.0
Aroclor 1248	µg/kg	dw										15	50	300	83.3	50.0
Aroclor 1254	µg/kg	dw	1	15.5	15.5	15.5	15.5					14	50	300	85.7	50.0
Aroclor 1260	µg/kg	dw										15	50	300	83.3	50.0
Aroclor 1268	µg/kg	dw										15	50	300	83.3	50.0
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw										4	0.1	0.1	0.1	0.1
Total TCDDs	ng/kg	dw	1	0.88	0.88	0.88	0.88					3	0.1	0.1	0.1	0.1
2,3,7,8-TCDF	ng/kg	dw	1	0.13	0.13	0.13	0.13					3	0.1	0.1	0.1	0.1
Total TCDFs	ng/kg	dw	4	0.16	0.72	0.35	0.25	0.26	0.13	1.40	1.45					
1,2,3,7,8-PeCDD	ng/kg	dw										4	0.1	0.1	0.1	0.1
Total PeCDDs	ng/kg	dw	1	0.12	0.12	0.12	0.12					3	0.1	0.1	0.1	0.1
1,2,3,7,8-PeCDF	ng/kg	dw										4	0.1	0.1	0.1	0.1
2,3,4,7,8-PeCDF	ng/kg	dw										4	0.1	0.1	0.1	0.1

Table G1-12. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Total PeCDFs	ng/kg	dw										4	0.1	0.1	0.1	0.1
1,2,3,4,7,8-HxCDD	ng/kg	dw										4	0.1	0.1	0.1	0.1
1,2,3,6,7,8-HxCDD	ng/kg	dw										4	0.1	0.1	0.1	0.1
1,2,3,7,8,9-HxCDD	ng/kg	dw										4	0.1	0.1	0.1	0.1
Total HxCDDs	ng/kg	dw	2	0.17	0.42	0.29	0.29	0.17	0.12			2	0.1	0.1	0.1	0.1
1,2,3,4,7,8-HxCDF	ng/kg	dw	1	0.12	0.12	0.12	0.12					3	0.1	0.1	0.1	0.1
1,2,3,6,7,8-HxCDF	ng/kg	dw										4	0.1	0.1	0.1	0.1
1,2,3,7,8,9-HxCDF	ng/kg	dw										4	0.1	0.1	0.1	0.1
2,3,4,6,7,8-HxCDF	ng/kg	dw										4	0.1	0.1	0.1	0.1
Total HxCDFs	ng/kg	dw	1	0.12	0.12	0.12	0.12					3	0.1	0.1	0.1	0.1
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	1	0.27	0.27	0.27	0.27					3	0.22	0.38	0.28	0.25
Total HpCDDs	ng/kg	dw	4	0.22	0.76	0.46	0.44	0.23	0.11	0.54	0.40					
1,2,3,4,6,7,8-HpCDF	ng/kg	dw										4	0.10	0.15	0.12	0.11
1,2,3,4,7,8,9-HpCDF	ng/kg	dw										4	0.1	0.1	0.1	0.1
Total HpCDFs	ng/kg	dw										4	0.1	0.1	0.1	0.1
OCDD	ng/kg	dw	1	1.78	1.78	1.78	1.78					3	1.50	2.00	1.67	1.50
OCDF	ng/kg	dw	1	0.10	0.10	0.10	0.10					3	0.10	0.12	0.11	0.10

Table G1-101. Summary Statistics for Lower Ninemile Creek Water Samples Collected by Honeywell/Exponent in 1998 (base flow)

		DETECTS									NONDETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Parameters															
Conductivity	mS/cm	7	2.9	3.5	3.2	3.2	0.2	7.1E-02	0.1	0.9	0				
Dissolved oxygen, wt/vol	mg/L	7	6.4	9.1	7.7	7.3	1.0	0.4	0.4	-0.6	0				
Hardness	mg/L	7	1,020	1,720	1,314	1,380	273	103	0.3	-1.5	0				
pH	pH	7	7.5	8.0	7.7	7.5	0.2	9.2E-02	0.6	-2.1	0				
Salinity	percent	7	0.1	0.2	0.2	0.2	9.8E-03	3.7E-03	0.3	0.0	0				
Temperature	°C	7	16	22	18	16	2.5	1.0	0.8	-1.3	0				
Total chloride	mg/L	7	663	991	834	866	117	44	-0.5	-0.6	0				
Total dissolved solids	mg/L	7	2,680	3,640	3,164	3,160	402	152	0.0	-2.2	0				
Total suspended solids	mg/L	8	7.6	18	12	10	4.2	1.5	0.8	-1.0	0				
Total Metals and Cyanide															
Aluminum (dissolved)	µg/L-dis	0									7	13	17	14	13
Aluminum (unfiltered)	µg/L-unfil	6	100	298	176	143	81	33	0.9	-1.2	1	143	143	143	143
Antimony (dissolved)	µg/L-dis	1	1.7	1.7	1.7	1.7					6	1.4	1.9	1.5	1.4
Antimony (unfiltered)	µg/L-unfil	0									7	1.4	1.4	1.4	1.4
Arsenic (dissolved)	µg/L-dis	0									7	2.0	2.0	2.0	2.0
Arsenic (unfiltered)	µg/L-unfil	0									7	2.0	2.0	2.0	2.0
Barium (dissolved)	µg/L-dis	7	101	113	105	105	4.2	1.6	1.0	0.4	0				
Barium (unfiltered)	µg/L-unfil	7	98	113	105	104	5.0	1.9	0.2	-0.6	0				
Beryllium (dissolved)	µg/L-dis	0									7	0.2	0.2	0.2	0.2
Beryllium (unfiltered)	µg/L-unfil	0									7	0.2	0.2	0.2	0.2
Cadmium (dissolved)	µg/L-dis	0									7	0.4	4.3	2.1	0.4
Cadmium (unfiltered)	µg/L-unfil	0									7	0.4	4.3	2.1	0.4
Calcium (dissolved)	µg/L-dis	7	361,000	505,000	436,571	471,000	59,433	22,464	-0.4	-2.1	0				
Calcium (unfiltered)	µg/L-unfil	7	335,000	503,000	424,143	442,000	60,140	22,731	-0.5	-0.8	0				
Chromium (dissolved)	µg/L-dis	0									7	3.2	3.8	3.5	3.8
Chromium (unfiltered)	µg/L-unfil	0									7	3.2	3.8	3.5	3.8
Cobalt (dissolved)	µg/L-dis	0									7	2.7	3.2	2.9	2.7
Cobalt (unfiltered)	µg/L-unfil	0									7	2.7	3.2	2.9	2.7
Copper (dissolved)	µg/L-dis	1	2.5	2.5	2.5	2.5					6	1.7	2.0	1.8	1.7
Copper (unfiltered)	µg/L-unfil	3	2.1	4.8	3.2	2.8	1.4	0.8	1.3		4	1.7	1.7	1.7	1.7
Cyanide (dissolved)	µg/L-dis	0									7	10	10	10	10
Cyanide (unfiltered)	µg/L-unfil	0									7	10	10	10	10
Iron (dissolved)	µg/L-dis	0									7	3.3	11	7.4	8.0
Iron (unfiltered)	µg/L-unfil	7	574	994	769	763	163	62	0.3	-1.6	0				
Lead (dissolved)	µg/L-dis	0									7	1.1	1.1	1.1	1.1
Lead (unfiltered)	µg/L-unfil	1	1.7	1.7	1.7	1.7					6	1.1	1.1	1.1	1.1
Magnesium (dissolved)	µg/L-dis	7	40,100	51,900	46,043	48,600	5,249	1,984	-0.2	-2.6	0				
Magnesium (unfiltered)	µg/L-unfil	7	38,000	51,500	45,700	49,200	5,659	2,139	-0.5	-2.1	0				
Manganese (dissolved)	µg/L-dis	7	63	121	85	82	19	7.2	1.1	1.4	0				

Table G1-101. (cont.)

		DETECTS									NONDETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Manganese (unfiltered)	µg/L-unfil	7	76	144	109	117	23	8.8	-0.1	-0.6	0				
Methylmercury (dissolved)	µg/L-dis	5	7.0E-03	3.2E-02	2.1E-02	2.4E-02	1.1E-02	4.9E-03	-0.5	-2.1	3	6.0E-03	1.1E-02	9.3E-03	1.1E-02
Nickel (dissolved)	µg/L-dis	0									7	6.6	8.3	7.3	6.6
Nickel (unfiltered)	µg/L-unfil	0									7	6.6	8.3	7.6	8.2
Potassium (dissolved)	µg/L-dis	7	6,940	8,930	8,026	8,430	824	311	-0.4	-2.2	0				
Potassium (unfiltered)	µg/L-unfil	7	6,290	9,220	7,737	8,070	1,174	444	-0.2	-1.8	0				
Selenium (dissolved)	µg/L-dis	0									7	3.7	3.7	3.7	3.7
Selenium (unfiltered)	µg/L-unfil	0									7	3.7	3.7	3.7	3.7
Silver (dissolved)	µg/L-dis	0									7	2.9	3.0	2.9	2.9
Silver (unfiltered)	µg/L-unfil	0									7	2.9	3.0	2.9	2.9
Sodium (dissolved)	µg/L-dis	7	196,000	276,000	231,286	240,000	29,775	11,254	0.2	-1.3	0				
Sodium (unfiltered)	µg/L-unfil	7	174,000	274,000	228,143	235,000	38,155	14,421	-0.1	-1.2	0				
Thallium (dissolved)	µg/L-dis	0									7	4.7	4.7	4.7	4.7
Thallium (unfiltered)	µg/L-unfil	0									7	4.7	4.7	4.7	4.7
Total mercury (dissolved)	µg/L-dis	0									8	0.2	1.2	0.4	0.4
Total mercury (unfiltered)	µg/L-unfil	8	3.9	27	9.2	7.2	7.3	2.6	2.6	6.9	0				
Vanadium (dissolved)	µg/L-dis	2	3.3	5.8	4.6	4.6	1.8	1.3			5	3.2	3.4	3.3	3.4
Vanadium (unfiltered)	µg/L-unfil	4	3.8	5.6	4.4	4.1	0.8	0.4	1.6	2.5	3	3.2	3.4	3.3	3.2
Zinc (dissolved)	µg/L-dis	1	13	13	13	13					6	1.4	5.1	3.8	5.0
Zinc (unfiltered)	µg/L-unfil	2	17	21	19	19	2.4	1.7			5	5.4	26	13	8.4
Volatile Organic Compounds															
1,1,1-Trichloroethane	µg/L	0									7	10	10	10	10
1,1,2,2-Tetrachloroethane	µg/L	0									7	10	10	10	10
1,1,2-Trichloroethane	µg/L	0									7	10	10	10	10
1,1-Dichloroethane	µg/L	0									7	10	10	10	10
1,1-Dichloroethene	µg/L	0									7	10	10	10	10
1,2-Dichloroethane	µg/L	0									7	10	10	10	10
1,2-Dichloroethene isomers (Total)	µg/L	0									7	10	10	10	10
1,2-Dichloropropane	µg/L	0									7	10	10	10	10
2-Butanone	µg/L	0									7	10	10	10	10
2-Hexanone	µg/L	0									7	10	10	10	10
4-Methyl-2-pentanone	µg/L	0									7	10	10	10	10
Acetone	µg/L	0									7	8.7	10	9.8	10
Benzene	µg/L	0									7	10	10	10	10
Bromodichloromethane	µg/L	0									7	10	10	10	10
Bromoform	µg/L	0									7	10	10	10	10
Bromomethane	µg/L	0									7	10	10	10	10
Carbon disulfide	µg/L	0									7	10	10	10	10
Carbon tetrachloride	µg/L	0									7	10	10	10	10
Chlorobenzene	µg/L	5	1.2	1.6	1.4	1.4	0.2	8.9E-02	0.0	-3.0	2	10	10	10	10

Table G1-101. (cont.)

		DETECTS									NONDETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Chloroethane	µg/L	0									7	10	10	10	10
Chloroform	µg/L	0									7	10	10	10	10
Chloromethane	µg/L	0									7	10	10	10	10
cis-1,3-Dichloropropene	µg/L	0									7	10	10	10	10
Dibromochloromethane	µg/L	0									7	10	10	10	10
Ethylbenzene	µg/L	0									7	10	10	10	10
Methylene chloride	µg/L	0									7	10	10	10	10
Styrene	µg/L	0									7	10	10	10	10
Tetrachloroethene	µg/L	0									7	10	10	10	10
Toluene	µg/L	0									7	10	10	10	10
trans-1,3-Dichloropropene	µg/L	0									7	10	10	10	10
Trichloroethene	µg/L	0									7	10	10	10	10
Vinyl chloride	µg/L	0									7	10	10	10	10
Xylene isomers (Total)	µg/L	0									7	10	10	10	10
Semivolatile Organic Compounds															
1,2,4-Trichlorobenzene	µg/L	0									7	10	10	10	10
1,2-Dichlorobenzene	µg/L	0									7	10	10	10	10
1,3-Dichlorobenzene	µg/L	0									7	10	10	10	10
1,4-Dichlorobenzene	µg/L	0									7	10	10	10	10
2,2'-Oxybis[1-chloropropane]	µg/L	0									7	10	10	10	10
2,4,5-Trichlorophenol	µg/L	0									7	25	25	25	25
2,4,6-Trichlorophenol	µg/L	0									7	10	10	10	10
2,4-Dichlorophenol	µg/L	0									7	10	10	10	10
2,4-Dimethylphenol	µg/L	0									7	10	10	10	10
2,4-Dinitrophenol	µg/L	0									7	25	25	25	25
2,4-Dinitrotoluene	µg/L	0									7	10	10	10	10
2,6-Dinitrotoluene	µg/L	0									7	10	10	10	10
2-Chloronaphthalene	µg/L	0									7	10	10	10	10
2-Chlorophenol	µg/L	0									7	10	10	10	10
2-Methyl-4,6-dinitrophenol	µg/L	0									7	25	25	25	25
2-Methylphenol	µg/L	0									7	10	10	10	10
2-Nitroaniline	µg/L	0									7	25	25	25	25
2-Nitrophenol	µg/L	0									7	10	10	10	10
3,3'-Dichlorobenzidine	µg/L	0									7	10	10	10	10
3-Nitroaniline	µg/L	0									7	25	25	25	25
4-Bromophenyl-phenyl ether	µg/L	0									7	10	10	10	10
4-Chloro-3-methylphenol	µg/L	0									7	10	10	10	10
4-Chloroaniline	µg/L	0									7	10	10	10	10
4-Chlorophenyl-phenyl ether	µg/L	0									7	10	10	10	10
4-Methylphenol	µg/L	0									7	10	10	10	10

Table G1-101. (cont.)

		DETECTS									NONDETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
4-Nitroaniline	µg/L	0									7	25	25	25	25
4-Nitrophenol	µg/L	0									7	25	25	25	25
bis[2-chloroethoxy]methane	µg/L	0									7	10	10	10	10
bis[2-chloroethyl]ether	µg/L	0									7	10	10	10	10
bis[2-Ethylhexyl]phthalate	µg/L	0									7	10	40	16	10
Butylbenzyl phthalate	µg/L	0									7	10	10	10	10
Carbazole	µg/L	0									7	10	10	10	10
Dibenzofuran	µg/L	0									7	10	10	10	10
Diethyl phthalate	µg/L	0									7	10	10	10	10
Dimethyl phthalate	µg/L	0									7	10	10	10	10
Di-n-butyl phthalate	µg/L	0									7	10	10	10	10
Di-n-octyl phthalate	µg/L	0									7	10	10	10	10
Hexachlorobenzene (ECD)	µg/L	0									7	10	10	10	10
Hexachlorobenzene (MS)	µg/L	0									7	0.1	0.1	0.1	0.1
Hexachlorobutadiene	µg/L	0									7	10	10	10	10
Hexachlorocyclopentadiene	µg/L	0									7	10	10	10	10
Hexachloroethane	µg/L	0									7	10	10	10	10
Isophorone	µg/L	0									7	10	10	10	10
Nitrobenzene	µg/L	0									7	10	10	10	10
N-nitroso-di-n-propylamine	µg/L	0									7	10	10	10	10
N-nitrosodiphenylamine	µg/L	0									7	10	10	10	10
Pentachlorophenol	µg/L	0									7	25	25	25	25
Phenol	µg/L	0									7	10	10	10	10
Naphthalene	µg/L	0									7	10	10	10	10
Acenaphthene	µg/L	0									7	10	10	10	10
Acenaphthylene	µg/L	0									7	10	10	10	10
Fluorene	µg/L	0									7	10	10	10	10
Phenanthrene	µg/L	0									7	10	10	10	10
Anthracene	µg/L	0									7	10	10	10	10
2-Methylnaphthalene	µg/L	0									7	10	10	10	10
Fluoranthene	µg/L	0									7	10	10	10	10
Pyrene	µg/L	0									7	10	10	10	10
Benz(a)anthracene	µg/L	0									7	10	10	10	10
Chrysene	µg/L	0									7	10	10	10	10
Benzo(b)fluoranthene	µg/L	0									7	10	10	10	10
Benzo(k)fluoranthene	µg/L	0									7	10	10	10	10
Benzo(a)pyrene	µg/L	0									7	10	10	10	10
Indeno(1,2,3-cd)pyrene	µg/L	0									7	10	10	10	10
Dibenz(a,h)anthracene	µg/L	0									7	10	10	10	10
Benzo(ghi)perylene	µg/L	0									7	10	10	10	10

Table G1-101. (cont.)

		DETECTS									NONDETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Pesticides and Polychlorinated Biphenyls															
4,4'-DDD	µg/L	0									7	0.1	0.1	0.1	0.1
4,4'-DDE	µg/L	0									7	0.1	0.1	0.1	0.1
4,4'-DDT	µg/L	0									7	0.1	0.1	0.1	0.1
Aldrin	µg/L	0									7	5.0E-02	5.0E-02	5.0E-02	5.0E-02
alpha-BHC	µg/L	0									7	5.0E-02	5.0E-02	5.0E-02	5.0E-02
alpha-Chlordane	µg/L	0									7	5.0E-02	5.0E-02	5.0E-02	5.0E-02
alpha-Endosulfan	µg/L	0									7	5.0E-02	5.0E-02	5.0E-02	5.0E-02
beta-BHC	µg/L	0									7	5.0E-02	5.0E-02	5.0E-02	5.0E-02
beta-Endosulfan	µg/L	0									7	0.1	0.1	0.1	0.1
delta-BHC	µg/L	0									7	5.0E-02	5.0E-02	5.0E-02	5.0E-02
Dieldrin	µg/L	0									7	0.1	0.1	0.1	0.1
Endosulfan sulfate	µg/L	0									7	0.1	0.1	0.1	0.1
Endrin	µg/L	0									7	0.1	0.1	0.1	0.1
Endrin aldehyde	µg/L	0									7	0.1	0.1	0.1	0.1
Endrin ketone	µg/L	0									7	0.1	0.1	0.1	0.1
gamma-BHC	µg/L	0									7	5.0E-02	5.0E-02	5.0E-02	5.0E-02
gamma-Chlordane	µg/L	0									7	5.0E-02	5.0E-02	5.0E-02	5.0E-02
Heptachlor	µg/L	0									7	5.0E-02	5.0E-02	5.0E-02	5.0E-02
Heptachlor epoxide	µg/L	0									7	5.0E-02	5.0E-02	5.0E-02	5.0E-02
Methoxychlor	µg/L	0									7	0.5	0.5	0.5	0.5
Toxaphene	µg/L	0									7	5.0	5.0	5.0	5.0
Aroclor 1016	µg/L	0									7	1.0	1.0	1.0	1.0
Aroclor 1221	µg/L	0									7	2.0	2.0	2.0	2.0
Aroclor 1232	µg/L	0									7	1.0	1.0	1.0	1.0
Aroclor 1242	µg/L	0									7	1.0	1.0	1.0	1.0
Aroclor 1248	µg/L	0									7	1.0	1.0	1.0	1.0
Aroclor 1254	µg/L	0									7	1.0	1.0	1.0	1.0
Aroclor 1260	µg/L	0									7	1.0	1.0	1.0	1.0
Aroclor 1268	µg/L	0									7	1.0	1.0	1.0	1.0
Dioxins/Furans															
2,3,7,8-TCDD	pg/L	0									7	1.2	7.4	4.3	4.6
1,2,3,7,8-PeCDD	pg/L	0									7	1.1	6.8	3.5	3.9
1,2,3,4,6,7,8-HpCDD	pg/L	0									7	0.6	4.4	2.7	3.4
1,2,3,6,7,8-HxCDD	pg/L	0									7	1.7	7.8	4.3	3.3
1,2,3,7,8,9-HxCDD	pg/L	0									7	1.8	7.4	4.1	3.1
1,2,3,4,7,8-HxCDD	pg/L	0									7	1.7	7.1	4.0	3.0
OCDD	pg/L	0									7	2.5	17	7.8	8.0
2,3,7,8-TCDF	pg/L	0									7	1.4	6.0	4.3	5.1
1,2,3,7,8-PeCDF	pg/L	0									7	0.9	9.1	3.4	2.8

Table G1-101. (cont.)

		DETECTS									NONDETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
2,3,4,7,8-PeCDF	pg/L	0									7	0.9	9.7	3.5	2.7
1,2,3,6,7,8-HxCDF	pg/L	0									7	0.4	3.5	1.6	1.6
2,3,4,6,7,8-HxCDF	pg/L	0									7	0.4	3.8	1.7	1.7
1,2,3,7,8,9-HxCDF	pg/L	0									7	0.5	5.1	2.5	2.3
1,2,3,4,7,8-HxCDF	pg/L	0									7	0.3	3.6	1.6	1.6
1,2,3,4,6,7,8-HpCDF	pg/L	0									7	0.7	4.1	2.6	3.3
1,2,3,4,7,8,9-HpCDF	pg/L	0									7	0.8	5.2	3.1	3.2
OCDF	pg/L	0									7	1.8	26	6.4	3.6

Table G1-102. Exceedance Summary for Inorganics in Groundwater at Honeywell Sites

Analyte	N	No. of Detections	Sample ID (max. conc.)	Maximum Detection (μg/L)	Number of Samples Exceeding the Criteria	NYSDEC Class GA Groundwater Standard (μg/L)
Willis Ave. Site [1]						
Arsenic	69	40	WA-7I	956	10	25
Barium	69	65	WA-7S	1,820	4	1,000
Beryllium	69	20	WA-1D-F (filtered sample)	31	7	3
Cadmium	69	2	WA-3I-F (filtered sample)	11.6	1	5
Chromium	69	22	WA-4D	2,700	12	50
Copper	69	29	WA-4D	651	3	200
Cyanide	37	14	C-11	643	2	200
Iron	67	43	WA-4D	621,000	38	300
Lead	69	31	WA-7S	488	8	25
Magnesium	67	57	WA-4D	1,270,000	25	35,000
Manganese	67	49	WA-4D	20,400	29	300
Mercury	76	35	WA-7I	166	18	0.70
Selenium	57	8	P3-3D	21.8	4	10
Nickel	69	21	WA-4D	1,730	9	100
Sodium	69	60	WA-1I-F (filtered sample)	39,000	60	20,000
Semet Residue Ponds [2]						
Antimony	25	2	SP-2A FIL	344	2	3
Barium	25	25	SP-8B	37,600	8	1,000
Beryllium	25	3	SP-4C FIL/SP-4C	51	2	3
Cadmium	25	1	SP-3A	6	1	5
Chromium	25	7	SP-2A	103	1	50
Iron	25	18	SP-4C	277,000	18	300
Magnesium	25	24	SP-9A	149,000	13	35,000
Manganese	25	25	SP-6C	2,900	11	300
Selenium	6	5	SP-2A FIL	62	5	10
Sodium	25	25	SP-4C FIL	12,800,000	25	20,000
LCP Bridge Street Site [3]						
Antimony	5	3	GWMW-30S	5	3	3
Arsenic	5	4	GWMW-15S	158	1	25
Barium	5	5	GWMW-27S	1,340	1	1,000
Beryllium	5	3	GWMW-27S	5	2	3
Cadmium	17	3	GWMW-27S	11	1	5
Chromium	17	11	GWMW-15S	116	2	50
Copper	5	5	GWMW-27S	968	1	200
Cyanide	5	2	GWMW-27S	208	1	200
Iron	5	5	GWMW-15S	149,000	5	300
Lead	11	11	GWMW-27S	538	4	25
Magnesium	5	5	GWMW-15S	159,000	2	35,000
Manganese	5	5	GWMW-15S	3,680	2	300
Mercury	62	28	GWMW-27S	867	21	0.7
Nickel	5	5	GWMW-27S	375	2	100
Sodium	5	5	GWMW-15S	296,000	5	20,000

Table G1-102. (cont.)

Chemical	N	No. of Detections	Sample ID (max. conc.)	Maximum Detection (μg/L)	Number of Samples Exceeding the Criteria	NYSDEC Class GA Groundwater Standard (μg/L)
Wastebeds 9-15 [4]						
Antimony	18	2	WB-12U	5	2	3
Barium	18	17	WB-15CF	2,000	1	1,000
Chromium	18	12	WB-11U	100	1	50
Copper	18	10	MW-1	380	1	200
Iron	18	18	WB-11U	34,000	18	300
Magnsium	18	18	WB-11U	560,000	14	35,000
Manganese	18	17	WB-11U	12,000	10	300
Selenium	18	5	WB-11U	40	4	10
Sodium	18	18	WB-11U	4,100,000	18	20,000
Thallium	18	2	WB-12U	9	2	0.5
Semet Ponds Lakeshore Area From Semet/Willis Pump Test Report [5]						
Cadmium	5	5	OW-7	8.3	5	5
Chromium	5	5	OW-7	61	1	50
Iron	5	5	OW-7	46,600	5	300
Lead	5	5	OW-7	46	5	25
Magnesium	5	5	OW-5	81,700	5	35,000
Manganese	5	5	OW-6	3,150	5	300
Sodium	5	5	All 5 locations	2,000,000	5	20,000
Thallium	5	5	OW-6	54	5	0.5
Willis Ave. Lakeshore Area From Semet/Willis Pump Test Report [5]						
Cadmium	2	1	WA-1D	7.8	1	5
Iron	2	2	WA-1D	36,300	2	300
Lead	2	1	WA-1D	40	1	25
Magnesium	2	2	WA-2D	118,000	2	35,000
Manganese	2	2	WA-1D	3,210	2	300
Sodium	2	2	WA-2D	9,260,000	2	20,000
Thallium	2	1	WA-1D	52	1	0.5
Harbor Brook Site-Penn-Can Property [6]						
Antimony	7	4	HB-13	7	1	3
Arsenic	7	5	HB-13	89	1	25
Barium	7	7	HB-13	1,130	1	1,000
Beryllium	7	3	HB-13	7	1	3
Chromium	7	7	HB-13	395	3	50
Copper	7	7	HB-13	362	1	200
Iron	7	7	HB-13	361,000	6	300
Lead	7	7	HB-13	143	3	25
Magnesium	7	7	HB-13	621,000	2	35,000
Manganese	7	7	HB-13	10,500	3	300
Nickel	7	7	HB-13	394	2	100
Sodium	7	7	HB-12D	7,140,000	6	20,000

Table G1-102. (cont.)

Chemical	N	No. of Detections	Sample ID (max. conc.)	Maximum Detection (μg/L)	Number of Samples Exceeding the Criteria	NYSDEC Class GA Groundwater Standard (μg/L)
Harbor Brook Site-CSX Property[6]						
Chromium	4	4	HB-09	53	1	50
Iron	4	4	HB-09	4,410	4	300
Magnesium	4	4	HB-09	41,900	1	35,000
Manganese	4	4	HB-07S	886	1	300
Sodium	4	4	HB-09	1,310,000	3	20,000
Harbor Brook Site-Lakeshore Property[6]						
Antimony	15	3	HB-02S	3	1	3
Barium	15	15	HB-06S	10,100	1	1,000
Chromium	15	12	WB-BL	276	1	50
Iron	15	15	HB-01D	28,900	14	300
Lead	15	13	HB-02S	103	3	25
Magnesium	15	15	HB-01D	418,000	7	35,000
Manganese	15	15	HB-01D	6,650	7	300
Mercury	15	10	HB-05I	30	7	0.7
Nickel	15	13	HB-05I	222	2	100
Sodium	15	15	HB-02I	34,600,000	15	20,000
Thallium	15	2	HB-02I	88	2	0.5
Willis Ballfield Site[7]						
Antimony	12	8	BFMW-03S	15	4	3
Arsenic	12	9	BFMW-03S	32	1	25
Barium	12	12	BFMW-06D	2,540	2	1,000
Chromium	12	10	BFMW-03S	148	4	50
Copper	12	12	BFMW-06D	1,680	2	200
Iron	12	12	BFMW-03S	48,200	9	300
Lead	12	9	BFMW-03S	310	3	25
Magnesium	12	12	BFMW-03S	293,000	4	35,000
Manganese	12	12	BFMW-03S	1,550	3	300
Mercury	12	10	BFMW-06D	31	4	0.7
Selenium	12	9	BFMW-03S	31	1	10
Sodium	12	12	BFMW-06D	8,020,000	12	20,000
Thallium	12	3	BFMW-03D	10	3	0.5
Cyanide	12	10	BFMW-03D	280	3	200

Notes:

The data from an observation well used for background data in the LCP Bridge Street RI, GWMW-15S, was included in the LCP Site screening due to elevated levels of contaminants.

[1] O'Brien & Gere, June 1999 (Willis Avenue Chlorobenzene Site Remedial Investigation)

[2] O'Brien & Gere, October 1991 (Semet Residue Ponds Remedial Investigation)

[3] NYSDEC & TAMS, August 1998 (New York State Revision of the Remedial Investigation Report LCP Bridge Street Site)

[4] BBL, August 1999 (Supplemental Site Investigation Report Wastebeds 9 to 15)

[5] O'Brien & Gere, March 2002 (Pumping Tests; Semet Ponds and Willis Avenue Sites)

[6] O'Brien & Gere, September 2001 (Data Summary; Harbor Brook Preliminary Site Assessment)

[7] O'Brien & Gere, September 2001 (Data Summary; Ballfield Site Preliminary Site Assessment)

Table G1-103. Exceedance Summary for Organic Compounds in Groundwater at Honeywell Sites

Chemical	N	No. of Detections	Sample ID (max. conc.)	Maximum Detection (μg/L)	Number of Samples Exceeding the Criteria	NYSDEC Class GA Groundwater Standard (μg/L)
Willis Avenue Site [1]						
Volatile Organic Compounds						
Benzene	84	61	WA - 11	62,000	58	1
Toluene	84	25	WA - 2I	80,000	15	5
Ethylbenzene	84	11	WA-4I & HP-4-27	9.0	2	5
Xylene (total)	84	15	WA - 3S	98	10	5
1,2-Dichlopropane	84	2	WA - 7D	3.0	2	1
1,2-Dichloroethane	84	3	WA-7D	3.0	3	0.6
Chlorobenzene	84	34	WA - 2I	87,000	33	5
Methylene Chloride	84	4	WA-1I	1,300	3	5
Chloroform	84	9	WA-7S	52	2	7
Acetone	71	10	WA-7I	2,800	6	50
1,1,1-Trichloroethane	84	1	C-13	14	1	5
1,2,3-Trichlorobenzene	4	1	MW-111	150	1	5
Semivolatile Organic Compounds						
1,2,4-Trichlorobenzene	39	7	WA-1I	1000	7	5
1,2-Dichlorobenzene	66	20	WA-1I	29,000	19	3
1,3-Dichlorobenzene	73	13	WA-1I	9500	13	3
1,4-Dichlorobenzene	73	26	WA-1I	72,000	26	3
Benzo [k] fluoranthene	39	1	WA-6S	2.0	1	0.002
Chrysene	39	2	WA-7S	4.0	2	0.002
Naphthalene	39	22	PS - 3	230	10	10
Benzo [b] fluoranthene	39	1	WA-6S	5.0	1	0.002
Indeno (1, 2, 3 - cd) pyrene	39	2	WA-6S & WA-7S	2.0	2	0.002
2-Chloronapthalene	39	2	SP-3B	15	1	10
Hexachlorobenzene	39	1	MW - 111	2.0	1	0.04
Total Phenolic Compounds	34	21	WA-4I	1248	19	1
Semet Residue Ponds [2]						
Volatile Organic Compounds						
Benzene	44	30	SP-8B	55,000	29	1
Toluene	44	17	SP-8B	3,900	15	5
Ethylbenzene	44	1	SP-6A	9.0	1	5
Xylene (total)	44	6	SP-6A & SP-4A	210	4	5
1,2-Dichloroethane	22	1	SP-3C	2.0	1	0.6
Chlorobenzene	44	5	SP-3B	580	5	5
Semivolatile Organic Compounds						
Chrysene	23	1	SP-2A	2.0	1	0.002
Naphthalene	23	11	SP-8B	1,100	5	10
1,2-Dichlorobenzene	23	2	SP-3A	210	2	3
1,3-Dichlorobenzene	23	1	SP-3A	190	1	3
1,4-Dichlorobenzene	23	2	SP-3A	260	2	3
Analine	2	2	SP-8B	170	5	5
Diethylphthalate	23	9	SP-6B	320	1	50
Benzo[a]fluoranthene	23	1	SP-2A	1.0	1	0.002
Total Phenolic Compounds	23	15	SP-4B	13,600	15	1
Polychlorinated Biphenyls						
PCBs (summed Aroclors)	22	1	SP-2A	1.5	1	0.09
LCP Bridge Street Site [3]						
Volatile Organic Compounds						
Vinyl Chloride	16	1	WP-3	12	1	2
Chloroethane	16	1	WP-4	7.0	1	5
1,1-Dichloroethane	16	6	WP-2	39	5	5
1,2-Dichloroethene	16	6	P-2, WP-3, & WP-4	9.0	3	5
Benzene	20	2	S & GWMW-121S	2.0	2	1
Chloroform	21	5	GWMW-27S	200	5	7

Table G1-103. (cont.)

Chemical	N	No. of Detections	Sample ID (max. conc.)	Maximum Concentration (μg/L)	Number of Samples Exceeding the Criteria	NYSDEC Class GA Groundwater Standard (μg/L)
Semivolatile Organic Compounds						
Benzo[a]anthracene	12	1	GWMW-19S	0.2	1	0.002
Chrysene	12	1	GWMW-19S	0.2	1	0.002
Hexachlorobenzene	15	2	GWMW-27S	7.0	2	0.04
bis (2-ethylhexyl)phthalate	3	2	GWMW-112D	37	2	5
Naphthalene	12	4	GWMW-21S	43	1	10
Total Phenolic Compounds	12	3	GWMW-21I	62	3	1
Polychlorinated Biphenyls						
PCBs (summed Aroclors)	15	3	GWMW-30S	0.6	3	0.09
Wastebeds 9-15 [4]						
Volatile Organic Compounds						
1,1-Dichloroethane	48	2	WB-4L	11	2	5
1,1-Dichloroethene	48	2	WB-4L	2.9	2	0.7
1,2-Dichloroethane	48	8	WB-4L	27	8	0.6
2-Butanone	48	10	WB-10U	210	1	50
Acetone	48	21	WB-10U	580	9	50
Benzene	48	12	WB-15CF	37	12	1
Chlorobenzene	48	11	WB-4U	46	11	5
cis-1,2-Dichloroethene	48	2	WB-4L	5.5	1	5
Toluene	48	7	WB-7L	9.7	7	5
Semivolatile Organic Compounds						
1,2-Di-chlorobenzene (8270)	48	10	WB-15CF	33	10	3
1,2-Di-chlorobenzene (8260)	54	11	WB-15CF	31	11	3
1,4-Dichlorobenzene (8260)	48	11	WB-4U	46	10	3
1,4-Dichlorobenzene (8270)	54	11	WB-4U	39	11	3
Total Phenolic Compounds	54	16	WB-10U	4,410	16	1
Polychlorinated Biphenyls						
PCBs (summed Aroclors)	18	2	WB-12U	0.2	2	0.09
Semet Ponds Lakeshore Area From Semet/Willis Pump Test Report [5]						
Volatile Organic Compounds						
1,2,3-Trichlorobenzene	5	1	OW-4	52	1	5
1,2,4-Trichlorobenzene	5	1	OW-4	31	1	5
1,2,4-Trimethylbenzene	5	1	OW-4	18	1	5
1,2-Dichlorobenzene	5	1	OW-4	5.0	1	3
1,3,5-Trimethylbenzene	5	1	OW-4	9.0	1	5
1,3-Dichlorobenzene	5	1	OW-4	5.0	1	3
1,4-Dichlorobenzene	5	1	OW-4	7.0	1	3
Benzene	5	5	OW-11	10,000	5	1
Hexachlorobutadiene	5	1	OW-4	21	1	0.5
Naphthalene	5	1	OW-4	38	1	10
Xylene (total)	5	1	OW-4	6.0	1	5
n-Butylbenzene	5	1	OW-4	11	1	5
p-Isopropyltoluene	5	1	OW-4	6.0	1	5
Semivolatile Organic Compounds						
Phenol	5	2	OW-4 & OW-11	2.0	2	1
Willis Ave. Lakeshore Area From Semet/Willis Pump Test Report [5]						
Volatile Organic Compounds						
1,2,4-Trichlorobenzene	2	1	WA-1D	27	1	5
1,2-Dichlorobenzene	2	2	WA-1D	2,600	1	3
1,3-Dichlorobenzene	2	2	WA-1D	400	1	3
1,4-Dichlorobenzene	2	2	WA-1D	3,600	1	3
Benzene	2		WA-1D	9,400	1	1
Chlorobenzene	2	2	WA-1D	8,200	1	5
Semivolatile Organic Compounds						
1,2,4-Trichlorobenzene	2	1	WA-1D	17	1	5
1,2-Dichlorobenzene	2	2	WA-1D	2,200	1	3
1,3-Dichlorobenzene	2	1	WA-1D	330	1	3
1,4-Dichlorobenzene	2	2	WA-1D	3,400	1	3

Table G1-103. (cont.)

Chemical	N	No. of Detections	Sample ID (max. conc.)	Maximum Concentration (μg/L)	Number of Samples Exceeding the Criteria	NYSDEC Class GA Groundwater Standard (μg/L)
Phenol	2	1	WA-1D	2.0	1	1
Harbor Brook Site-Penn-Can Area [6]						
Volatile Organic Compounds						
1,1,1-Trichloroethane	10	10	HB-12S	32	2	5
1,2,4-Trimethylbenzene	10	9	HB-12I	900	4	5
1,3,5-Trimethylbenzene	10	6	HB-12I	320	3	5
Benzene	10	7	HB-13	11,000	6	1
Chloroform	10	6	HB-12D	240	2	7
Ethylbenzene	10	5	HB-13	1,000	3	5
Methylene chloride	10	4	HB-12D	200	2	5
Naphthalene	10	9	HB-12I & HB-13	18,000	6	10
Styrene	10	5	HB-13	17,000	3	5
Toluene	10	9	HB-13	6,000	4	5
Xylene (total)	10	9	HB-12I	4,800	4	5
Semivolatile Organic Compounds						
Not screened due to errors in data summary file						
Polychlorinated Biphenyls						
PCBs (summed Aroclors)	7	1	HB-11S	0.3	1	0.09
Pesticides						
γ-chlordane	7	2	HB-12I	7.0E-02	1	0.05
Harbor Brook Site-CSX Area [6]						
Volatile Organic Compounds						
1,2,4-Trimethylbenzene	5	3	HB-08I	650	2	5
1,3,5-Trimethylbenzene	5	2	HB-08I	240	2	5
Benzene	5	2	HB-08I	290	2	1
Ethylbenzene	5	2	HB-08I	160	2	5
Isopropylbenzene	5	1	HB-08I	17	1	5
Naphthalene	5	3	HB-08I	16,000	2	10
n-Propylbenzene	5	1	HB-08I	12	1	5
Styrene	5	2	HB-08I	310	2	5
Toluene	5	3	HB-08I	500	2	5
Xylene (total)	5	3	HB-08I	1,500	2	5
Semivolatile Organic Compounds						
1,2-Dichlorobenzene	5	1	HB-08I	5	1	3
2,4-Dimethylphenol	5	1	HB-08I	540	1	50
Acenapthene	5	2	HB-08I	130	2	20
bis(2-Ethylhexyl)phthalate	5	4	All well locations	10	4	10
Fluorene	5	2	HB-08I	110	2	50
Naphthalene	5	3	HB-08I	14000	2	10
Phenanthrene	5	1	HB-08I	60	1	50
Total Phenolic Compounds	5	3	HB-08I	836	2	1
Harbor Brook Site-Lakeshore Area [6]						
Volatile Organic Compounds						
1,2,3-Trichlorobenzene	28	1	HB-01S	19	1	5
1,2,4-Trichlorobenzene	28	2	HB-01S	68	2	5
1,2,4-Trimethylbenzene	28	22	WB-BU	820	17	5
1,2-Dichlorobenzene	28	12	HB-01S	3,800	9	3
1,3,5-Trimethylbenzene	28	20	WB-BU	290	15	5
1,3-Dichlorobenzene	28	3	HB-06S	12	2	3
1,4-Dichlorobenzene	28	11	HB-01S	1,500	9	3
Acetone	28	16	HB-05I	760	11	50
Benzene	28	23	HB-02S	3,900	19	1
Chlorobenzene	28	10	HB-01S	1,900	8	5
Chloroform	28	1	HB-02S	160	1	7
Ethylbenzene	28	18	WB-BU	270	12	5
Isopropylbenzene	28	6	HB-01S	80	3	5
Methylene chloride	28	3	HB-04S	200	2	5
Naphthalene	28	24	WB-BU	24,000	24	10

Table G1-103. (cont.)

Chemical	N	No. of Detections	Sample ID (max. conc.)	Maximum Concentration (μg/L)	Number of Samples Exceeding the Criteria	NYSDEC Class GA Groundwater Standard (μg/L)
n-Propylbenzene	28	2	HB-01S	9	2	5
p-Isopropyltoluene	28	3	HB-01S	20	1	5
sec-Butylbenzene	28	4	HB-01S	120	2	5
Styrene	28	12	HB-02S	850	9	5
tert-Butylbenzene	28	1	HB-01S	11	1	5
Toluene	28	22	HB-02S	5,700	16	5
Vinyl Chloride	28	7	HB-03S	5.0	4	2
Xylene (total)	28	22	WB-BU	3,500	18	5
Semivolatile Organic Compounds						
1,2,4-Trichlorobenzene	17	1	HB-01S	46	1	5
1,2-Dichlorobenzene	17	3	HB-01S	3,200	3	3
1,4-Dichlorobenzene	17	3	HB-01S	1,300	3	3
Acenaphthene	17	7	HB-02S	2,500	5	20
Anthracene	17	1	HB-02S	77	1	50
Benzo[a]anthracene	17	1	HB-02S	37	1	0.002
Benzo[a]pyrene	17	1	HB-02S	16	1	ND
Benzo[b]fluoranthene	17	1	HB-02S	20	1	0.002
bis(2-Ethylhexyl)phthalate	17	10	HB-02S & HB-06S	100	10	5
Chrysene	17	1	HB-02S	29	1	0.002
Fluoranthene	17	1	HB-02S	120	1	50
Fluorene	17	8	HB-02S	180	4	50
Naphthalene	17	12	WB-BU	15,000	12	10
Phenanthrene	17	7	HB-02S	340	3	50
Pyrene	17	1	HB-02S	90	1	50
Total Phenolic Compounds	17	13	HB-02S	49,500	12	1
Pesticides						
Aldrin	27	2	WA-08I	3.0E-02	2	ND
Ballfield Site [7]						
Volatile Organic Compounds						
Not screened due to uncertainties with data						
Semivolatile Organic Compounds						
Not screened due to uncertainties with data						

Notes:

The guidance value for xylene is intended for screening against the individual isomers, however, only total xylene was reported in the groundwater data.

The data from the Harbor Brook Site and the Ballfield Site Preliminary Site Assessments were taken from electronic files that accompanied the draft reports.

This data are validated, however, it appears as if some entries were dropped, causing uncertainties in the reported concentrations.

Honeywell/O'Brien & Gere has been requested to provide a finalized electronic data file with the RIs, however, this may not be submitted in time for the completion of the Onondaga Lake re-writes.

[1] O'Brien & Gere, June 1999 (Willis Avenue Chlorobenzene Site Remedial Investigation)

[2] O'Brien & Gere, October 1991 (Semet Residue Ponds Remedial Investigation)

[3] NYSDEC & TAMS, August 1998 (New York State Revision of the Remedial Investigation Report LCP Bridge Street Site)

[4] BBL, August 1999 (Supplemental Site Investigation Report Wastebeds 9 to 15)

[5] O'Brien & Gere, March 2002 (Pumping Tests; Semet Ponds and Willis Avenue Sites)

[6] O'Brien & Gere, September 2001 (Harbor Brook Preliminary Site Assessment; Data Summary)

[7] O'Brien & Gere, September 2001 (Ballfield Site Preliminary Site Assessment; Data Summary)

Table G1-104. Summary Statistics for Fish Tissue Collected from Onondaga Lake and Tributaries in 1992 (by PTI, Stearns and Wheler, and NYSDEC)

Analyte	Units	Number of Fish Analyzed	Number of Detected Values	Minimum Detected Value	Mean Detected Value	Geometric Mean Detected Value	Maximum Detected Value	Minimum Detection Limit	Mean Detection Limit	Geometric Mean Detection Limit	Maximum Detection Limit
Onondaga Lake											
Conventional Analytes											
Lipid	%-ww	211	211	0.3	3.2	2.1	17				
Percent lipid	%-ww	14	14	0.6	3.7	2.2	17				
Percent moisture	%-ww	14	14	72	77	77	80				
Total solids	%-dw	4	4	100	100	100	100				
Total Metals and Cyanide											
Aluminum	mg/kg-ww	4						4.9	6.4	6.2	9.3
Antimony	mg/kg-ww	4	2	1.8	2.0	1.9	2.1	2.2	2.5	2.4	2.7
Arsenic	mg/kg-ww	4						0.1	0.2	0.2	0.2
Barium	mg/kg-ww	4						0.2	0.2	0.2	0.2
Beryllium	mg/kg-ww	4						0.2	0.2	0.2	0.2
Cadmium	mg/kg-ww	8	4	1.0E-02	2.3E-02	2.1E-02	3.0E-02	0.2	0.2	0.2	0.2
Calcium	mg/kg-ww	4	4	79	665	462	1,080				
Chromium	mg/kg-ww	4	3	0.6	0.7	0.7	0.73	0.3	0.3	0.3	0.3
Cobalt	mg/kg-ww	4						0.3	0.4	0.4	0.5
Copper	mg/kg-ww	4	1	1.5	1.5	1.5	1.5	0.5	1.1	0.9	2.0
Iron	mg/kg-ww	4						7.2	9.1	8.9	11
Lead	mg/kg-ww	8	6	6.0E-02	0.1	0.1	0.29	0.1	0.2	0.2	0.2
Magnesium	mg/kg-ww	4	4	169	238	234	275				
Manganese	mg/kg-ww	4	2	0.2	0.3	0.3	0.36	0.2	0.2	0.2	0.2
Ionic mercury	mg/kg-ww	72	47	7.3E-03	5.2E-02	3.3E-02	0.261	5.0E-03	0.0	0.0	6.6E-02
Methylmercury	mg/kg-ww	211	211	2.9E-02	0.6	0.4	3.2				
Mercury	mg/kg-ww	68	68	0.19	1.0	0.8	5.1				
Nickel	mg/kg-ww	4						1.2	1.6	1.5	2.0
Potassium	mg/kg-ww	4	4	2,720	3,423	3,383	3,920				
Selenium	mg/kg-ww	4	1	0.86	0.86	0.86	0.86	0.1	0.2	0.2	0.2
Silver	mg/kg-ww	4						0.3	0.4	0.4	0.5
Sodium	mg/kg-ww	4	4	355	486	472	689				
Thallium	mg/kg-ww	4						0.1	0.2	0.2	0.2
Vanadium	mg/kg-ww	4						0.3	0.4	0.4	0.5
Zinc	mg/kg-ww	4	1	17	17	17	17	5.5	7.0	6.9	8.4
Cyanide	mg/kg-ww	4	1	1.0	1.0	1.0	1.0	0.4	0.5	0.5	0.5

Table G1-104. (cont.)

Analyte	Units	Number of Fish Analyzed	Number of Detected Values	Minimum Detected Value	Mean Detected Value	Geometric Mean Detected Value	Maximum Detected Value	Minimum Detection Limit	Mean Detection Limit	Geometric Mean Detection Limit	Maximum Detection Limit
Volatile Organic Compounds											
Aromatic Hydrocarbons											
Benzene	µg/kg-ww	4						10	10	10	10
Toluene	µg/kg-ww	4	1	5.0	5.0	5.0	5.0	10	10	10	10
Ethylbenzene	µg/kg-ww	4						10	10	10	10
Styrene	µg/kg-ww	4						10	10	10	10
Xylene (Total)	µg/kg-ww	4						10	10	10	10
Chlorinated Aromatic Hydrocarbons											
Chlorobenzene	µg/kg-ww	4						10	10	10	10
1,2-Dichlorobenzene	µg/kg-ww	8						25	90	63	160
1,3-Dichlorobenzene	µg/kg-ww	8						25	90	63	160
1,4-Dichlorobenzene	µg/kg-ww	8	3	37	45	44	58	25	53	37	160
1,2,4-Trichlorobenzene	µg/kg-ww	8						25	90	63	160
Halogenated Alkanes											
Chloromethane	µg/kg-ww	4						10	10	10	10
Bromomethane	µg/kg-ww	4						10	10	10	10
Chloroethane	µg/kg-ww	4						10	10	10	10
Methylene chloride	µg/kg-ww	4						10	10	10	10
1,1-Dichloroethane	µg/kg-ww	4						10	10	10	10
Chloroform	µg/kg-ww	4						10	10	10	10
1,2-Dichloroethane	µg/kg-ww	4						10	10	10	10
1,1,1-Trichloroethane	µg/kg-ww	4						10	10	10	10
Carbon tetrachloride	µg/kg-ww	4						10	10	10	10
Bromodichloromethane	µg/kg-ww	4						10	10	10	10
1,2-Dichloropropane	µg/kg-ww	4						10	10	10	10
Dibromochloromethane	µg/kg-ww	4						10	10	10	10
1,1,2-Trichloroethane	µg/kg-ww	4						10	10	10	10
Bromoform	µg/kg-ww	4						10	10	10	10
1,1,2,2-Tetrachloroethane	µg/kg-ww	4						10	10	10	10
Halogenated Alkenes											
1,2-Dichloroethene (Total)	µg/kg-ww	4						10	10	10	10
Vinyl chloride	µg/kg-ww	4						10	10	10	10
1,1-Dichloroethene	µg/kg-ww	4						10	10	10	10
cis-1,3-dichloropropene	µg/kg-ww	4						10	10	10	10
trans-1,3-dichloropropene	µg/kg-ww	4						10	10	10	10
Trichloroethene	µg/kg-ww	4						10	10	10	10
Tetrachloroethene	µg/kg-ww	4						10	10	10	10

Table G1-104. (cont.)

Analyte	Units	Number of Fish Analyzed	Number of Detected Values	Minimum Detected Value	Mean Detected Value	Geometric Mean Detected Value	Maximum Detected Value	Minimum Detection Limit	Mean Detection Limit	Geometric Mean Detection Limit	Maximum Detection Limit
Ketones											
Acetone	µg/kg-ww	4	4	50	115	100	180				
2-Butanone	µg/kg-ww	4	2	6.0	7.0	6.9	8.0	10	10	10	10
2-Hexanone	µg/kg-ww	4						10	10	10	10
4-Methyl-2-pentanone	µg/kg-ww	4						10	10	10	10
Miscellaneous Volatile Organic Compounds											
Carbon disulfide	µg/kg-ww	4						10	10	10	10
Isopropanol	µg/kg-ww	3	3	8.0	10	9.4	13				
Semivolatile Organic Compounds											
Chlorinated Aromatic Hydrocarbons											
Pentachlorobenzene	µg/kg-ww	4						25	26	26	27
Hexachlorobenzene	mg/kg-ww	18	11	2.0E-03	1.2E-02	7.5E-03	4.7E-02	2.5E-02	0.1	0.1	0.16
2-Chloronaphthalene	µg/kg-ww	8						25	90	63	160
1,2,4,5-Tetrachlorobenzene	µg/kg-ww	4						25	26	26	27
Low Molecular Weight Polycyclic Aromatic Hydrocarbons											
Naphthalene	µg/kg-ww	8	1	61	61	61	61	25	82	56	160
Acenaphthylene	µg/kg-ww	4						150	155	155	160
Acenaphthene	µg/kg-ww	8						25	90	63	160
Fluorene	µg/kg-ww	8						25	90	63	160
Phenanthrene	µg/kg-ww	8						25	90	63	160
Anthracene	µg/kg-ww	8						25	90	63	160
1-Methylnaphthalene	µg/kg-ww	4	4	520	1,253	1,085	2,300				
2-Methylnaphthalene	µg/kg-ww	8						25	90	63	160
High Molecular Weight Polycyclic Aromatic Hydrocarbons											
Fluoranthene	µg/kg-ww	8						25	90	63	160
Pyrene	µg/kg-ww	8						25	90	63	160
Benzo(a)anthracene	µg/kg-ww	8						25	90	63	160
Chrysene	µg/kg-ww	8						25	90	63	160
Benzo(b)fluoranthene	µg/kg-ww	8						25	90	63	160
Benzo(k)fluoranthene	µg/kg-ww	8						25	90	63	160
Indeno(1,2,3-cd)pyrene	µg/kg-ww	8						25	90	63	160
Benzo(a)pyrene	µg/kg-ww	8						25	90	63	160
Dibenz(a,h)anthracene	µg/kg-ww	8						25	90	63	160
Benzo(g,h,i)perylene	µg/kg-ww	8						25	90	63	160
Phenols											
Phenol	µg/kg-ww	8						49	51	51	54
2-Methylphenol	µg/kg-ww	8						49	51	51	54

Table G1-104. (cont.)

Analyte	Units	Number of Fish Analyzed	Number of Detected Values	Minimum Detected Value	Mean Detected Value	Geometric Mean Detected Value	Maximum Detected Value	Minimum Detection Limit	Mean Detection Limit	Geometric Mean Detection Limit	Maximum Detection Limit
4-Methylphenol	µg/kg-ww	4									
2,4-Dimethylphenol	µg/kg-ww	8						49	51	51	54
4,3-Methylphenol	µg/kg-ww	4						49	51	51	54
Substituted Phenols											
2-Chlorophenol	µg/kg-ww	8						49	51	51	54
2,4-Dichlorophenol	µg/kg-ww	8						49	51	51	54
4-Chloro-3-methylphenol	µg/kg-ww	8						49	51	51	54
2,4,6-Trichlorophenol	µg/kg-ww	8						49	51	51	54
2,4,5-Trichlorophenol	µg/kg-ww	8						49	51	51	54
Pentachlorophenol	µg/kg-ww	8						49	51	51	54
2-Nitrophenol	µg/kg-ww	8						49	51	51	54
4-Nitrophenol	µg/kg-ww	8						49	51	51	54
2,4-Dinitrophenol	µg/kg-ww	8						49	51	51	54
2-Methyl-4,6-dinitrophenol	µg/kg-ww	4									
2,3,4,6,-Tetrachlorophenol	µg/kg-ww	4						49	51	51	54
2,6-Dichlorophenol	µg/kg-ww	4						49	51	51	54
Chlorinated Aliphatic Hydrocarbons											
Hexachloroethane	µg/kg-ww	8						25	90	63	160
Hexachlorobutadiene	µg/kg-ww	8						25	90	63	160
Hexachlorocyclopentadiene	µg/kg-ww	8						25	90	63	160
Halogenated Ethers											
Bis(2-chloroethyl)ether	µg/kg-ww	8						25	90	63	160
4-Chlorophenyl-phenyl ether	µg/kg-ww	8						25	90	63	160
4-Bromophenyl-phenyl ether	µg/kg-ww	8						25	90	63	160
Bis(2-chloroethoxy)methane	µg/kg-ww	8						25	90	63	160
2,2'-Oxybis(1-chloropropane)	µg/kg-ww	8						25	90	63	160
Phthalates											
Dimethylphthalate	µg/kg-ww	8						25	90	63	160
Diethylphthalate	µg/kg-ww	8						25	90	63	160
Di-*n* -butylphthalate	µg/kg-ww	8	4	44	56	55	68	150	155	155	160
Butylbenzylphthalate	µg/kg-ww	8						25	90	63	160
Bis(2-ethylhexyl)phthalate	µg/kg-ww	8	3	44	803	188	2,300	25	210	112	430
Di-*n* -octylphthalate	µg/kg-ww	8						25	90	63	160
Oxygenated Compounds											
Isophorone	µg/kg-ww	8						25	90	63	160
Benzyl alcohol	µg/kg-ww	4						49	51	51	54
Benzoic acid	µg/kg-ww	4						49	51	51	54

Table G1-104. (cont.)

Analyte	Units	Number of Fish Analyzed	Number of Detected Values	Minimum Detected Value	Mean Detected Value	Geometric Mean Detected Value	Maximum Detected Value	Minimum Detection Limit	Mean Detection Limit	Geometric Mean Detection Limit	Maximum Detection Limit
Dibenzofuran	µg/kg-ww	8						25	90	63	160
Carbazole	µg/kg-ww	4						150	155	155	160
Organonitrogen Compounds											
Nitrobenzene	µg/kg-ww	8						25	90	63	160
N-nitroso-di-*n* -propylamine	µg/kg-ww	8						25	90	63	160
2-Nitroaniline	µg/kg-ww	8						25	209	101	400
3-Nitroaniline	µg/kg-ww	4						390	393	392	400
4-Nitroaniline	µg/kg-ww	8						25	209	101	400
2,6-Dinitrotoluene	µg/kg-ww	4						150	155	155	160
2,4-Dinitrotoluene	µg/kg-ww	8						25	90	63	160
N-Nitrosodiphenylamine(1)	µg/kg-ww	8						25	90	63	160
4-Chloroaniline	µg/kg-ww	8						25	90	63	160
3,3'-Dichlorobenzidine	µg/kg-ww										
1-Naphthylamine	µg/kg-ww	4						25	26	26	27
1-Nitrosopiperidine	µg/kg-ww	4						25	26	26	27
2-Picoline	µg/kg-ww	4						25	26	26	27
4,6-Dinitro-2-methylphenol	µg/kg-ww	4						49	51	51	54
4-Aminobiphenyl	µg/kg-ww	4						25	26	26	27
Diphenylhydrazine	µg/kg-ww	4						25	26	26	27
Azobenzene	µg/kg-ww	4						25	26	26	27
Benzidine	µg/kg-ww	4						25	26	26	27
Aniline	µg/kg-ww	4						25	26	26	27
1-Nitrosodibutylamine	µg/kg-ww	4						25	26	26	27
1-Nitroso-di-phenylamine	µg/kg-ww	4						25	26	26	27
p -Dimethylaminoazobenzene	µg/kg-ww	4						25	26	26	27
Pentachloronitrobenzene	µg/kg-ww	4						25	26	26	27
Phenacetin	µg/kg-ww	4						25	26	26	27
Pronamide	µg/kg-ww	4						25	26	26	27
Pesticides/Polychlorinated Biphenyls											
α-Hexachlorocyclohexane	µg/kg-ww	8						1.6	3.0	2.6	5.0
β-Hexachlorocyclohexane	µg/kg-ww	8						1.6	3.0	2.6	5.0
δ-Hexachlorocyclohexane	µg/kg-ww	9	3	1.7	2.3	2.3	2.8	1	3.3	2.9	5.0
γ-Hexachlorocyclohexane (Lindane)	µg/kg-ww	9	1	9,000	9,000	9,000	9,000	1.6	3.0	2.6	5.0
Hexachlorocyclohexane (sum)	µg/kg-ww	10	4	2	2,252	18	9,000	1	3.3	2.9	5.0
Aldrin	µg/kg-ww	8						1.6	3.0	2.6	5.0
Dieldrin	µg/kg-ww	18	6	5.0	10	8.6	19	3.1	4.3	4.3	5.0
Aldrin and dieldrin (Sum)	µg/kg-ww	18	6	5.0	10	8.6	19	1.6	3.9	3.6	5.0

Table G1-104. (cont.)

Analyte	Units	Number of Fish Analyzed	Number of Detected Values	Minimum Detected Value	Mean Detected Value	Geometric Mean Detected Value	Maximum Detected Value	Minimum Detection Limit	Mean Detection Limit	Geometric Mean Detection Limit	Maximum Detection Limit
α-Chlordane	µg/kg-ww	4	3	8.4	19	16	33	1.6	1.6	1.6	1.6
γ-Chlordane	µg/kg-ww	4						1.6	1.6	1.6	1.7
Methoxychlordane	µg/kg-ww	4						180	218	216	250
Oxychlordane	µg/kg-ww	10						10	10	10	10
cis -Chlordane	µg/kg-ww	10	5	5.0	10	9.2	20	5	5.0	5.0	5.0
trans -Chlordane	µg/kg-ww	10	2	6.0	7.5	7.3	9.0	5	5.0	5.0	5.0
Chlordane (Sum)	µg/kg-ww	18	10	8.4	28	21	90	1.6	45.1	17.9	100
α-Endosulfan	µg/kg-ww	8	3	3.5	5.2	4.9	8	1.6	3.8	3.5	5.0
β-Endosulfan	µg/kg-ww	8						3.1	3.8	3.7	5.0
Endosulfan sulfate	µg/kg-ww	8	1	4.2	4.2	4.2	4.2	3.1	3.8	3.8	5.0
Endrin	mg/kg-ww	8	4	6.5E-03	1.5E-02	1.2E-02	3.2E-02	3.6E-03	4.3E-03	4.3E-03	5.0E-03
Endrin aldehyde	µg/kg-ww	8						3.1	3.8	3.7	5.0
Endrin ketone	µg/kg-ww	4						3.1	3.2	3.2	3.3
Heptachlor	µg/kg-ww	8						1.6	3.0	2.6	5.0
Heptachlor epoxide	µg/kg-ww	8	1	4.0	4.0	4.0	4.0	1.6	3.2	2.8	5.0
Methoxychlor	µg/kg-ww	4						16	16.3	16.2	17
4,4'-DDD	µg/kg-ww	18	14	6.0	31	19	170	3.6	4.3	4.3	5.0
4,4'-DDE	µg/kg-ww	18	14	10	64	36	400	3.6	4.3	4.3	5.0
4,4'-DDT	µg/kg-ww	18	12	4.0	10	8.4	27	3.2	4.0	3.9	5.0
DDT and metabolites (Sum)	mg/kg-ww	18	14	2.0E-02	0.1	6.3E-02	0.6	3.6E-03	4.3E-03	4.3E-03	5.0E-03
Toxaphene	µg/kg-ww	8						160	297.5	264.1	500
Mirex	µg/kg-ww	10						2.0	2.0	2.0	2.0
Photomirex	µg/kg-ww	10						5.0	5.0	5.0	5.0
Mirex & photomirex	µg/kg-ww	10						7.0	7.0	7.0	7.0
Heptachlor and heptachlor epoxide (Sum)	µg/kg-ww	8	1	4.0	4.0	4.0	4.0	1.6	3.2	2.8	5
Aroclor 1016	µg/kg-ww	10	10	134	559	450	1,607				
Aroclor 1248	µg/kg-ww										
Aroclor 1254	µg/kg-ww	4	4	1,000	4,500	3,122	11,000				
Aroclor 1254 & Aroclor 1260	µg/kg-ww	10	10	220	574	485	1,531				
PCBs (Sum)	µg/kg-ww	14	14	504	2,094	1,336	11,000				
PCDD/PCDFs											
2,3,7,8-Tetrachlorodibenzofuran	µg/kg-ww	4	3	1.3E-02	3.2E-02	2.7E-02	5.4E-02	2.9E-03	2.9E-03	2.9E-03	2.9E-03
2,3,7,8-Tetrachlorodibenzodioxin	µg/kg-ww	4						3.6E-03	4.1E-03	4.0E-03	4.8E-03

Table G1-104. (cont.)

Analyte	Units	Number of Fish Analyzed	Number of Detected Values	Minimum Detected Value	Mean Detected Value	Geometric Mean Detected Value	Maximum Detected Value	Minimum Detection Limit	Mean Detection Limit	Geometric Mean Detection Limit	Maximum Detection Limit
Octachlorodibenzofuran	µg/kg-ww	4						5.8E-03	7.8E-03	7.6E-03	1.0E-02
Octachlorodibenzodioxin	µg/kg-ww	4						7.1E-03	9.8E-03	9.6E-03	1.1E-02
Total tetrachlorodibenzofurans	µg/kg-ww	4	3	1.3E-02	3.4E-02	2.8E-02	6.1E-02	3.8E-03	3.8E-03	3.8E-03	3.8E-03
Total tetrachlorodibenzodioxins	µg/kg-ww	4						4.0E-03	4.4E-03	4.4E-03	4.8E-03
Sum of pentachlorodibenzofurans	µg/kg-ww	4	2	2.3E-02	2.8E-02	2.7E-02	3.2E-02	4.5E-03	4.6E-03	4.5E-03	4.6E-03
Total pentachlorodibenzodioxins	µg/kg-ww	4						5.9E-03	7.5E-03	7.4E-03	8.5E-03
Sum of hexachlorodibenzofurans	µg/kg-ww	4						3.9E-03	4.9E-03	4.8E-03	5.9E-03
Sum of hexachlorodibenzodioxins	µg/kg-ww	4						6.8E-03	7.7E-03	7.7E-03	8.6E-03
Sum of heptachlorodibenzofurans	µg/kg-ww	4						2.1E-02	2.5E-02	2.5E-02	3.1E-02
Total heptachlorodibenzodioxins	µg/kg-ww	4						7.3E-03	8.7E-03	8.5E-03	1.0E-02
Mammalian TEQ (1/2 DL)	ng/kg-ww	4	3	3.1	5.3	4.9	7.8	2.0	2.0	2.0	2.0
Avian TEQ (1/2 DL)	ng/kg-ww	4	3	15	34	30	56	3.4	3.4	3.4	3.4
Miscellaneous											
3-Methylchloranthrene	µg/kg-ww	4						25	25	25	26
7,12-Dimethylbenzo(a)anthracene	µg/kg-ww	4						25	26	26	27
Dibenz(a,j)acridine	µg/kg-ww	4						25	25	25	26
Ethylmethane-sulfonate	µg/kg-ww	4						25	26	26	27
Methylmethane-sulfonate	µg/kg-ww	4						25	26	26	27
Transnonachlor	µg/kg-ww	8	4	5.0	9.3	8.5	16	5.0	5.0	5.0	5.0
Harbor Brook (Station W5, Site 704, Tributary F9)											
Conventional Analytes											
Lipid	%-ww	1	1	1.7	1.7	1.7	1.7				
Total Metals											
Methylmercury	mg/kg-ww	1	1	0.2	0.2	0.2	0.2				
Polychlorinated Biphenyls											
Aroclor 1016	µg/kg-ww	1						46	46	46	46
Aroclor 1221	µg/kg-ww	1						46	46	46	46
Aroclor 1232	µg/kg-ww	1						46	46	46	46
Aroclor 1242	µg/kg-ww	1						46	46	46	46
Aroclor 1248	µg/kg-ww	1	1	42	42	42	42				
Aroclor 1254	µg/kg-ww	1						46	46.0	46.0	46
Aroclor 1260	µg/kg-ww	1	1	35	35	35	35				
PCBs (Sum)	µg/kg-ww	1	1	77	77	77	77				

Table G1-104. (cont.)

Analyte	Units	Number of Fish Analyzed	Number of Detected Values	Minimum Detected Value	Mean Detected Value	Geometric Mean Detected Value	Maximum Detected Value	Minimum Detection Limit	Mean Detection Limit	Geometric Mean Detection Limit	Maximum Detection Limit
Ley Creek (Station W6, Site 700, Tributary F11)											
Conventional Analytes											
Lipid	%-ww	1	1	2.4	2.4	2.4	2.4				
Percent lipid	%-ww	17	17	0.1	0.6	0.3	3.0				
Percent moisture	%-ww	5	5	73	76	76	80				
Total Metals											
Ionic mercury	mg/kg-ww	1						1.3E-02	1.3E-02	1.3E-02	1.3E-02
Methylmercury	mg/kg-ww	1	1	0.1	0.1	0.1	0.1				
Polychlorinated Biphenyls											
Aroclor 1016	µg/kg-ww	18						100	138	118	500
Aroclor 1221	µg/kg-ww	18						100	249	218	1000
Aroclor 1232	µg/kg-ww	1						390	390	390	390
Aroclor 1242	µg/kg-ww	1						390	390	390	390
Aroclor 1248	µg/kg-ww	18	16	110	758	500	2,400	100	100	100	100
Aroclor 1254	µg/kg-ww	18						100	138	118	500
Aroclor 1260	µg/kg-ww	18	5	230	388	361	700	100	131	113	500
PCBs (Sum)	µg/kg-ww	18	16	160	926	637	2,650	100	100	100	100
East Flume (Station W7, Site 703, Tributary F12)											
Conventional Analytes											
Lipid	%-ww	2	2	2.2	2.9	2.8	3.6				
Total Metals											
Ionic mercury	mg/kg-ww	2						1.1E-02	1.4E-02	1.4E-02	1.7E-02
Methylmercury	mg/kg-ww	2	2	0.2	0.2	0.2	0.3				
Polychlorinated Biphenyls											
Aroclor 1016	µg/kg-ww	2						38	46	45	53
Aroclor 1221	µg/kg-ww	2						38	46	45	53
Aroclor 1232	µg/kg-ww	2						38	46	45	53
Aroclor 1242	µg/kg-ww	2						38	46	45	53
Aroclor 1248	µg/kg-ww	2	2	92	106	105	120				
Aroclor 1254	µg/kg-ww	2						38	46	45	53
Aroclor 1260	µg/kg-ww	2	2	51	51	51	51				
PCBs (Sum)	µg/kg-ww	2	2	143	157	156	171				
Bloody Creek (Station W9 Site 707 Tributary F14)											
Conventional Analytes											
Lipid	%-ww	1	1	1.6	1.6	1.6	1.6				
Total Metals											
Ionic mercury	mg/kg-ww	1						1.3E-02	1.3E-02	1.3E-02	1.3E-02

Table G1-104. (cont.)

Analyte	Units	Number of Fish Analyzed	Number of Detected Values	Minimum Detected Value	Mean Detected Value	Geometric Mean Detected Value	Maximum Detected Value	Minimum Detection Limit	Mean Detection Limit	Geometric Mean Detection Limit	Maximum Detection Limit
Methylmercury	mg/kg-ww	1	1	0.1	0.1	0.1	0.1				
Polychlorinated Biphenyls											
Aroclor 1016	µg/kg-ww	1						33	33	33	33
Aroclor 1221	µg/kg-ww	1						33	33	33	33
Aroclor 1232	µg/kg-ww	1						33	33	33	33
Aroclor 1242	µg/kg-ww	1						33	33	33	33
Aroclor 1248	µg/kg-ww	1	1	50	50	50	50				
Aroclor 1254	µg/kg-ww	1						33	33	33	33
Aroclor 1260	µg/kg-ww	1	1	47	47	47	47				
PCBs (Sum)	µg/kg-ww	1	1	97	97	97	97				
Ninemile Creek (Station W10, Site 701, Tributary F15)											
Conventional Analytes											
Lipid	%-ww	1	1	2.2	2.2	2.2	2.2				
Total Metals											
Ionic mercury	mg/kg-ww	1						1.3E-02	1.3E-02	1.3E-02	1.3E-02
Methylmercury	mg/kg-ww	1	1	0.2	0.2	0.2	0.2				
Polychlorinated Biphenyls											
Aroclor 1016	µg/kg-ww	1						18	18	18	18
Aroclor 1221	µg/kg-ww	1						18	18	18	18
Aroclor 1232	µg/kg-ww	1						18	18	18	18
Aroclor 1242	µg/kg-ww	1						18	18	18	18
Aroclor 1248	µg/kg-ww	1	1	41	41	41	41				
Aroclor 1254	µg/kg-ww	1						18	18	18	18
Aroclor 1260	µg/kg-ww	1	1	29	29	29	29				
PCBs (Sum)	µg/kg-ww	1	1	70	70	70	70				
Sawmill Creek (Station W11, Site 709, Tributary F16)											
Conventional Analytes											
Lipid	%-ww	1	1	1.4	1.4	1.4	1.4				
Total Metals											
Ionic mercury	mg/kg-ww	1						7.4E-03	7.4E-03	7.4E-03	7.4E-03
Methylmercury	mg/kg-ww	1	1	0.1	0.1	0.1	0.1				
Polychlorinated Biphenyls											
Aroclor 1016	µg/kg-ww	1						33	33	33	33
Aroclor 1221	µg/kg-ww	1						33	33	33	33
Aroclor 1232	µg/kg-ww	1						33	33	33	33
Aroclor 1242	µg/kg-ww	1						33	33	33	33
Aroclor 1248	µg/kg-ww	1						33	33	33	33
Aroclor 1254	µg/kg-ww	1						33	33	33	33
Aroclor 1260	µg/kg-ww	1						33	33	33	33
PCBs (Sum)	µg/kg-ww	1						33	33	33	33

Notes: TEQ – toxicity equivalent

Table G1-105. Summary Statistics for Adult Fish Tissue Collected from Onondaga Lake in 2000

Analyte	Units	Number of Fish Analyzed	Number of Detected Values	Minimum Detected Value	Mean Detected Value	Geometric Mean Detected Value	Maximum Detected Value	Minimum Detection Limit	Mean Detection Limit	Geometric Mean Detection Limit	Maximum detection limit
Conventional Analytes											
Lipid	%-ww	40	40	1.0	7.6	5.7	22				
Total solids	%-ww	40	40	21	29	28	42				
Total Metals and Cyanide											
Aluminum	mg/kg-ww	40	32	5.2	18	13	115	4.8	4.9	4.9	5.0
Antimony	mg/kg-ww	40						2.0E-02	3.7E-02	3.4E-02	5.0E-02
Arsenic	mg/kg-ww	40	19	0.5	1.1	1.0	2.0	0.5	0.5	0.5	0.5
Barium	mg/kg-ww	40	40	4.0E-02	2.3	1.2	6.7				
Beryllium	mg/kg-ww	40	14	2.0E-02	2.5E-02	2.4E-02	3.5E-02	2.0E-02	2.0E-02	2.0E-02	2.0E-02
Cadmium	mg/kg-ww	40	12	6.0E-02	0.2	0.2	0.9	5.0E-02	5.0E-02	5.0E-02	5.0E-02
Calcium	mg/kg-ww	40	40	389	32,462	18,105	90,400				
Chromium	mg/kg-ww	40	13	1.2	3.8	2.9	14	1.0	1.0	1.0	1.0
Cobalt	mg/kg-ww	40	37	2.0E-02	0.3	0.2	0.6	2.0E-02	2.0E-02	2.0E-02	2.0E-02
Copper	mg/kg-ww	40	40	1.3	4.2	3.2	19				
Cyanide	mg/kg-ww	40	2	1.7	8	4.9	14	0.4	0.5	0.5	0.9
Iron	mg/kg-ww	40	40	10	59	46	225				
Lead	mg/kg-ww	40	38	2.0E-02	0.3	0.2	1.9	2.0E-02	2.0E-02	2.0E-02	2.0E-02
Magnesium	mg/kg-ww	40	40	738	1,315	1,268	2,250				
Manganese	mg/kg-ww	40	40	0.44	6.5	3.6	45				
Mercury	mg/kg-ww	140	140	0.1	0.8	0.7	1.9				
Nickel	mg/kg-ww	40	40	0.3	3.1	2.2	14				
Potassium	mg/kg-ww	40	40	5,450	10,674	10,149	17,700				
Selenium	mg/kg-ww	40	24	1.0	1.4	1.4	2.4	1.0	1.0	1.0	1.0
Silver	mg/kg-ww	40	11	2.0E-02	3.5E-02	3.3E-02	5.0E-02	2.0E-02	2.0E-02	2.0E-02	2.0E-02
Sodium	mg/kg-ww	40	40	1,120	3,644	3,398	6,460				
Thallium	mg/kg-ww	40						2.0E-02	2.0E-02	2.0E-02	2.0E-02
Vanadium	mg/kg-ww	40	40	0.2	0.8	0.7	1.7				
Zinc	mg/kg-ww	40	40	20	108	79	425				
Semivolatile Organic Compounds											
Chlorinated Aromatic Hydrocarbons											
Hexachlorocyclohexane (sum)	µg/kg-ww	49	4	1.1	1.4	1.4	1.7	1.0	7.0	5.3	20
Hexachlorobenzene	mg/kg-ww	49	46	2.0E-03	4.8E-02	2.4E-02	0.3	2.0E-03	4.7E-03	3.4E-03	1.0E-02
Pesticides/Polychlorinated Biphenyls											
α-Hexachlorocyclohexane	µg/kg-ww	49						1.0	6.5	4.6	20
β-Hexachlorocyclohexane	µg/kg-ww	49						1.0	6.6	4.7	20
δ-Hexachlorocyclohexane	µg/kg-ww	49						2.1E-02	5.7	1.3	23
γ-Hexachlorocyclohexane	µg/kg-ww	49	4	1.0E-02	1.0	0.4	1.7	1.5E-03	5.1	0.4	20
Hexachlorocyclohexane (Sum)	µg/kg-ww	49	4	1.1	1.4	1.4	1.7	1.0	7.0	5.3	20
Aldrin	µg/kg-ww	49	1	3.0	3.0	3.0	3.0	1.0	6.7	4.9	20
Dieldrin	µg/kg-ww	49	37	1.2E-02	22	2.9	100	1.4E-02	2.6	0.2	20

Table G1-105. (cont.)

Analyte	Units	Number of Fish Analyzed	Number of Detected Values	Minimum Detected Value	Mean Detected Value	Geometric Mean Detected Value	Maximum Detected Value	Minimum Detection Limit	Mean Detection Limit	Geometric Mean Detection Limit	Maximum detection limit
α-Chlordane	µg/kg-ww	39	5	2.6	5.2	4.9	7.4	1.0	7.8	5.6	20
γ-Chlordane	µg/kg-ww	39	6	1.1	3.2	2.7	5.0	1.0	8.5	6.5	20
Oxychlordane	µg/kg-ww	10	3	5	6.7	6.3	10	5.0	5.0	5.0	5.0
cis-Chlordane	µg/kg-ww	10						5.0	5.0	5.0	5.0
trans-Chlordane	µg/kg-ww	10						5.0	5.0	5.0	5.0
cis-Nonachlor	µg/kg-ww	10						5.0	5.0	5.0	5.0
trans-Nonachlor	µg/kg-ww	10	1	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Chlordane (sum)	µg/kg-ww	49	9	1.1	7.8	6.3	15	1.0	7.0	5.1	20
α-Endosulfan	µg/kg-ww	49						3.6E-03	4.8	0.8	20
β-Endosulfan	µg/kg-ww	39						1.0	54	14	360
Endosulfan sulfate	µg/kg-ww	49	1	2.8	2.8	2.8	2.8	1.0	8.2	6.3	21
Endrin	mg/kg-ww	49	36	1.3E-03	1.6E-02	1.1E-02	4.6E-02	5.0E-03	6.9E-03	6.2E-03	2.0E-02
Endrin aldehyde	µg/kg-ww	49	1	4.9	4.9	4.9	4.9	2.6E-03	6.3	0.5	35
Endrin ketone	µg/kg-ww	39	1	2.5	2.5	2.5	2.5	5.4E-03	6.2	1.2	20
Heptachlor	µg/kg-ww	49						1.0	6.5	4.6	20
Heptachlor epoxide	µg/kg-ww	49	1	7.0	7.0	7.0	7.0	1.0	12	9.3	50
Heptachlor epoxide and heptachlor (sum)	µg/kg-ww	39						1.0	6.9	4.5	20
Methoxychlor	µg/kg-ww	39						1.0	7.8	5.6	20
Mirex	µg/kg-ww	10						2.0	2.0	2.0	2.0
Photomirex	µg/kg-ww	10						5.0	5.0	5.0	5.0
4,4'-DDD	µg/kg-ww	49	43	1.3	30	16	94	2.0	6.7	4.3	20
4,4'-DDE	µg/kg-ww	49	49	3	93	45	360				
4,4'-DDT	µg/kg-ww	49	45	1.6	12	7.9	45	10	13	12	20
DDT and metabolites (sum)	mg/kg-ww	49	49	5.0E-03	0.1	6.6E-02	0.5				
Ortho-para DDD	µg/kg-ww	10						5.0	5.0	5.0	5.0
Ortho-para DDE	µg/kg-ww	10						5.0	5.0	5.0	5.0
Ortho-para DDT	µg/kg-ww	10						5.0	5.0	5.0	5.0
Toxaphene	µg/kg-ww	39						50	986	726	2000
Aroclor 1016	µg/kg-ww	39						10	62	39	100
Aroclor 1221	µg/kg-ww	39						10	119	73	200
Aroclor 1232	µg/kg-ww	39						10	59	37	100
Aroclor 1242	µg/kg-ww	49	10	44	123	105	287	10	59	37	100
Aroclor 1248	µg/kg-ww	39	39	53	797	560	1,700				
Aroclor 1254	µg/kg-ww	39						10	59	37	100
Aroclor 1260	µg/kg-ww	39	39	35	559	372	2,300				
Aroclor 1268	µg/kg-ww	39						10	59	37	100
Aroclors 1254 and 1260	µg/kg-ww	10	10	63	193	160	489				
PCBs (sum)	µg/kg-ww	49	49	88	1,144	737	3,400				

Table G1-105. (cont.)

Analyte	Units	Number of Fish Analyzed	Number of Detected Values	Minimum Detected Value	Mean Detected Value	Geometric Mean Detected Value	Maximum Detected Value	Minimum Detection Limit	Mean Detection Limit	Geometric Mean Detection Limit	Maximum detection limit
Dioxins/Furans											
2,3,7,8-Tetrachlorodibenzofuran	ng/kg-ww	40	40	0.2	7.5	3.7	64				
Total tetrachlorodibenzofurans	ng/kg-ww	40	39	0.2	8.3	4.0	68	0.1	0.1	0.1	0.1
2,3,7,8-Tetrachlorodibenzodioxin	ng/kg-ww	40	38	0.2	1.3	0.9	4.0	0.1	0.1	0.1	0.2
Total tetrachlorodibenzodioxins	ng/kg-ww	40	26	0.2	1.6	1.2	4.0	0.1	0.1	0.1	0.4
1,2,3,7,8-Pentachlorodibenzofuran	ng/kg-ww	40	37	0.1	2.9	1.1	27	0.1	0.1	0.1	0.1
2,3,4,7,8-Pentachlorodibenzofuran	ng/kg-ww	40	39	0.1	14	3.4	114	0.1	0.1	0.1	0.1
Total pentachlorodibenzofurans	ng/kg-ww	40	34	0.3	20	6.7	149	0.1	0.1	0.1	0.1
1,2,3,7,8-Pentachlorodibenzodioxin	ng/kg-ww	40	32	0.1	1.7	1.0	6.4	0.1	0.1	0.1	0.1
Total pentachlorodibenzodioxins	ng/kg-ww	40	24	0.1	2.0	1.4	6.7	0.1	0.1	0.1	0.2
1,2,3,4,7,8-Hexachlorodibenzofuran	ng/kg-ww	40	33	0.1	2.3	0.7	21	0.1	0.1	0.1	0.1
1,2,3,6,7,8-Hexachlorodibenzofuran	ng/kg-ww	40	23	0.1	1.3	0.6	7.8	0.1	0.1	0.1	0.2
2,3,4,6,7,8-Hexachlorodibenzofuran	ng/kg-ww	40	21	0.2	0.6	0.5	1.9	0.1	0.1	0.1	0.2
1,2,3,7,8,9-Hexachlorodibenzofuran	ng/kg-ww	40	6	0.1	0.2	0.2	0.2	9.0E-02	0.1	0.1	0.2
Total hexachlorodibenzofurans	ng/kg-ww	40	29	0.1	4.1	1.2	31	0.1	0.1	0.1	0.1
1,2,3,4,7,8-Hexachlorodibenzodioxin	ng/kg-ww	40	20	0.2	0.6	0.5	1.9	0.1	0.1	0.1	0.2
1,2,3,6,7,8-Hexachlorodibenzodioxin	ng/kg-ww	40	35	0.1	1.4	0.8	6.4	0.1	0.1	0.1	0.2
1,2,3,7,8,9-Hexachlorodibenzodioxin	ng/kg-ww	40	22	0.1	0.5	0.4	1.2	0.1	0.1	0.1	0.2
Total hexachlorodibenzodioxins	ng/kg-ww	40	27	0.1	2.4	1.4	8.4	0.1	0.1	0.1	0.2
1,2,3,4,6,7,8-Heptachlorodibenzofuran	ng/kg-ww	40	26	0.1	0.6	0.5	1.8	9.0E-02	0.1	0.1	0.2
1,2,3,4,7,8,9-Heptachlorodibenzofuran	ng/kg-ww	40	9	0.1	0.2	0.2	0.4	9.0E-02	0.1	0.1	0.2
Total heptachlorodibenzofurans	ng/kg-ww	40	17	0.1	0.8	0.5	2.4	0.1	0.1	0.1	0.2
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	ng/kg-ww	40	32	0.1	2.0	0.9	8.1	0.1	0.1	0.1	0.2
Total heptachlorodibenzodioxins	ng/kg-ww	40	29	0.1	2.8	1.5	10	0.1	0.1	0.1	0.2
Octachlorodibenzofuran	ng/kg-ww	40	1	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.4
Octachlorodibenzodioxin	ng/kg-ww	40	16	2.1	4.4	4.0	13	0.3	0.7	0.6	1.4
Avian TEQ (1/2 DL)	ng/kg-ww	40	40	0.5	25	10	194				
Mammalian TEQ (1/2 DL)	ng/kg-ww	40	40	0.3	11	4.1	79				

Notes: TEQ – toxicity equivalent
MDL – maximum detection limit

Table G1-106. Summary Statistics for Juvenile Fish Tissue Collected from Onondaga Lake in 2000

Analyte	Units	Number of Fish Analyzed	Number of Detected Values	Minimum Detected Value	Mean Detected Value	Geometric Mean Detected Value	Maximum Detected Value	Minimum Detection Limit	Mean Detection Limit	Geometric Mean Detection Limit	Maximum Detection Limit
Conventional Analytes											
Lipid	%-ww	15	15	1.4	3.2	3.1	4.5				
Total solids	%-ww	15	15	19	23	23	26				
Total Metals and Cyanide											
Aluminum	mg/kg-ww	15	15	5	30	23	66				
Antimony	mg/kg-ww	15						5.0E-02	5.0E-02	5.0E-02	5.0E-02
Arsenic	mg/kg-ww	15	14	0.5	0.7	0.7	1.5	0.5	0.5	0.5	0.5
Barium	mg/kg-ww	15	15	0.7	3.6	3.3	5.2				
Beryllium	mg/kg-ww	15	10	2.0E-02	2.5E-02	2.4E-02	3.0E-02	2.0E-02	2.0E-02	2.0E-02	2.0E-02
Cadmium	mg/kg-ww	15	8	6.0E-02	0.1	0.1	0.2	5.0E-02	5.0E-02	5.0E-02	5.0E-02
Calcium	mg/kg-ww	15	15	34,700	43,720	43,299	57,400				
Chromium	mg/kg-ww	15	1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Cobalt	mg/kg-ww	15	15	0.5	0.6	0.6	0.8				
Copper	mg/kg-ww	15	15	2.0	3.1	3.0	4.9				
Iron	mg/kg-ww	15	15	36	80	74	137				
Lead	mg/kg-ww	15	15	6.0E-02	0.3	0.2	1.0				
Magnesium	mg/kg-ww	15	15	1,630	1,784	1,781	1,990				
Manganese	mg/kg-ww	15	15	2.6	7.9	7.3	14				
Mercury	µg/kg-ww	15	15	4.8E-02	0.1	9.8E-02	0.2				
Nickel	mg/kg-ww	15	15	6.6	8.8	8.6	13				
Potassium	mg/kg-ww	15	15	12,000	13,227	13,203	14,600				
Selenium	mg/kg-ww	15	11	1.1	1.5	1.4	2.6	1.0	1.0	1.0	1.0
Silver	mg/kg-ww	15	5	2.0E-02	2.6E-02	2.6E-02	3.0E-02	2.0E-02	2.0E-02	2.0E-02	2.0E-02
Sodium	mg/kg-ww	15	15	3,100	4,263	4,242	4,690				
Thallium	mg/kg-ww	15	1	2.0E-02	2.0E-02	2.0E-02	2.0E-02	2.0E-02	2.0E-02	2.0E-02	2.0E-02
Vanadium	mg/kg-ww	15	15	0.7	1.1	1.1	1.4				
Zinc	mg/kg-ww	15	15	81	116	114	154				
Cyanide	mg/kg-ww	15						0.5	0.7	0.7	0.8
Semivolatile Organic Compounds											
Chlorinated Aromatic Hydrocarbons											
Hexachlorobenzene (GC/ECD)	µg/kg-ww	15	11	6.3	21	17	47	10	10	10	10
Pesticides/Polychlorinated Biphenyls											
α-Hexachlorocyclohexane	µg/kg-ww	15						1.0	5.0	3.3	10
β-Hexachlorocyclohexane	µg/kg-ww	15	1	5.4	5.4	5.4	5.4	1.0	5.5	3.9	10
δ-Hexachlorocyclohexane	µg/kg-ww	15						1.0	4.9	3.2	10
γ-Hexachlorocyclohexane (Lindane)	µg/kg-ww	15						1.0	4.9	3.2	10
Aldrin	µg/kg-ww	15						1.0	4.9	3.2	10
Dieldrin	µg/kg-ww	15	12	2.9	8.8	6.8	26	10	10	10	10
Aldrin and dieldrin (Sum)	µg/kg-ww	15	12	2.9	8.8	6.8	26	10	10	10	10
α-Chlordane	µg/kg-ww	15						1.0	5.5	3.9	10

Table G1-106.

Analyte	Units	Number of Fish Analyzed	Number of Detected Values	Minimum Detected Value	Mean Detected Value	Geometric Mean Detected Value	Maximum Detected Value	Minimum Detection Limit	Mean Detection Limit	Geometric Mean Detection Limit	Maximum Detection Limit
γ-Chlordane	µg/kg-ww	15						1.0	6.3	4.8	10
Chlordane (Sum)	µg/kg-ww	15						1.0	5.4	3.7	10
α-Endosulfan	µg/kg-ww	15						1.0	4.9	3.2	10
β-Endosulfan	µg/kg-ww	15						1.0	4.9	3.2	10
Endosulfan sulfate	µg/kg-ww	15						1.0	5.1	3.4	10
Endrin	mg/kg-ww	15	10	1.5E-03	5.7E-03	3.2E-03	3.3E-02	1.0E-02	1.0E-02	1.0E-02	1.0E-02
Endrin aldehyde	µg/kg-ww	15						1.0	5.9	4.7	10
Endrin ketone	µg/kg-ww	15	1	5.2	5.2	5.2	5.2	1.0	5.9	4.3	10
Heptachlor	µg/kg-ww	15						1.0	5.1	3.2	12
Heptachlor epoxide	µg/kg-ww	15						3.0	9.4	8.2	25
Methoxychlor	µg/kg-ww	15						1.0	4.9	3.2	10
Toxaphene	µg/kg-ww	15						200	487	364	1,000
4,4'-DDD	µg/kg-ww	15	12	2.5	6.7	5.5	19	10	10	10	10
4,4'-DDE	µg/kg-ww	15	15	7.7	19	17	51				
4,4'-DDT	µg/kg-ww	15	8	1.5	4.5	3.1	17	2.0	7.7	6.3	10
DDT and metabolites (Sum)	mg/kg-ww	15	15	1.2E-02	2.7E-02	2.3E-02	8.7E-02				
Aroclor 1016	µg/kg-ww	15						10	64	40	100
Aroclor 1221	µg/kg-ww	15						20	128	80	200
Aroclor 1232	µg/kg-ww	15						10	64	40	100
Aroclor 1242	µg/kg-ww	15						10	64	40	100
Aroclor 1248	µg/kg-ww	15	15	86	446	289	2,100				
Aroclor 1254	µg/kg-ww	15						10	64	40	100
Aroclor 1260	µg/kg-ww	15	15	47	173	121	750				
Aroclor 1268	µg/kg-ww	15						10	64	40	100
PCBs (Sum)	µg/kg-ww	15	15	142	619	427	2,370				
Dioxins/Furans											
2,3,7,8-Tetrachlorodibenzofuran	ng/kg-ww	16	16	0.7	2.3	1.8	6.0				
Total tetrachlorodibenzofurans	ng/kg-ww	16	16	0.6	2.4	1.8	7.8				
2,3,7,8-Tetra-chlorodibenzo-dioxin	ng/kg-ww	16	12	0.2	0.4	0.4	0.8	0.1	0.1	0.1	0.2
Total tetrachlorodibenzodioxins	ng/kg-ww	16	11	0.2	0.8	0.6	2.3	0.1	0.1	0.1	0.2
1,2,3,7,8-Pentachlorodibenzofuran	ng/kg-ww	16	10	0.1	0.4	0.3	1.1	0.1	0.1	0.1	0.2
2,3,4,7,8-Pentachlorodibenzofuran	ng/kg-ww	16	14	0.2	1.1	0.7	5.6	0.1	0.2	0.1	0.2
Total pentachlorodibenzofurans	ng/kg-ww	16	14	0.2	1.6	0.9	7.1	0.1	0.1	0.1	0.1
1,2,3,7,8-Pentachlorodibenzodioxin	ng/kg-ww	16	12	0.1	0.3	0.3	0.6	0.1	0.1	0.1	0.2
Total pentachlorodibenzodioxins	ng/kg-ww	16	6	0.2	0.3	0.3	0.6	0.1	0.1	0.1	0.2
1,2,3,4,7,8-Hexachlorodibenzofuran	ng/kg-ww	16	8	0.1	0.3	0.2	0.6	0.1	0.1	0.1	0.2
1,2,3,6,7,8-Hexachlorodibenzofuran	ng/kg-ww	16	2	0.1	0.1	0.1	0.2	0.1	0.1	0.1	0.2
2,3,4,6,7,8-Hexachlorodibenzofuran	ng/kg-ww	16	1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
1,2,3,7,8,9-Hexachlorodibenzofuran	ng/kg-ww	16						0.1	0.1	0.1	0.2
Total hexachlorodibenzofurans	ng/kg-ww	16	5	0.2	0.4	0.3	0.7	0.1	0.1	0.1	0.2

Table G1-106.

Analyte	Units	Number of Fish Analyzed	Number of Detected Values	Minimum Detected Value	Mean Detected Value	Geometric Mean Detected Value	Maximum Detected Value	Minimum Detection Limit	Mean Detection Limit	Geometric Mean Detection Limit	Maximum Detection Limit
1,2,3,4,7,8-Hexachlorodibenzodioxin	ng/kg-ww	16						0.1	0.1	0.1	0.2
1,2,3,6,7,8-Hexachlorodibenzodioxin	ng/kg-ww	16	10	0.1	0.2	0.2	0.3	0.1	0.1	0.1	0.2
1,2,3,7,8,9-Hexachlorodibenzodioxin	ng/kg-ww	16	1	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.2
Total hexachlorodibenzodioxins	ng/kg-ww	16	4	0.1	0.2	0.2	0.3	0.1	0.1	0.1	0.2
1,2,3,4,6,7,8-Heptachlorodibenzofuran	ng/kg-ww	16	6	0.2	0.3	0.2	0.3	0.1	0.1	0.1	0.2
1,2,3,4,7,8,9-Heptachlorodibenzofuran	ng/kg-ww	16						0.1	0.1	0.1	0.2
Total heptachlorodibenzofurans	ng/kg-ww	16	5	0.3	0.4	0.4	0.5	0.1	0.1	0.1	0.2
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	ng/kg-ww	16	16	0.1	0.4	0.3	0.9				
Total heptachlorodibenzodioxins	ng/kg-ww	16	9	0.1	0.6	0.5	1.5	0.1	0.1	0.1	0.2
Octachlorodibenzofuran	ng/kg-ww	16	9	0.1	0.4	0.4	0.6	0.1	0.1	0.1	0.2
Octachlorodibenzodioxin	ng/kg-ww	16	7	2.1	3.2	3.1	4.3	0.5	0.9	0.8	1.6
Avian TEQ (1/2 DL)	ng/kg-ww	16	16	1.0	3.9	3.1	13				
Mammalian TEQ (1/2 DL)	ng/kg-ww	16	16	0.3	1.4	1.1	4.7				

Notes: TEQ – toxicity equivalent
MDL – maximum detection limit
ND – non-detect

Table G1-107. Summary Statistics for Fish Tissue Collected from Onondaga Lake from 1994 to 1999 (by NYSDEC)

Analyte	Units	Number of Fish Analyzed	Number of Detected Values	Minimum Detected Value	Mean Detected Value	Geometric Mean Detected Value	Maximum Detected Value	Minimum Detection Limit	Mean Detection Limit	Geometric Mean Detection Limit	Maximum Detection Limit
Conventional Analytes											
Percent lipid	%-ww	100	100	0.2	2.3	1.6	13				
Percent moisture	%-ww	100	100	57	78	78	99				
Total Metals and Cyanide											
Mercury	mg/kg-ww	561	561	0.2	1.0	1.0	3.3				
Semivolatile Organic Compounds											
Chlorinated Aromatic Hydrocarbons											
Hexachlorobenzene	mg/kg-ww	100	76	2.0E-03	1.1E-02	6.4E-03	0.1	2.0E-03	2.0E-03	2.0E-03	2.0E-03
Pesticides/Polychlorinated Biphenyls											
α–Ηεξαχηλοροχψχλοηεξανε	mg/kg-ww	28						5.0E-03	5.0E-03	5.0E-03	5.0E-03
β–Ηεξαχηλοροχψχλοηεξανε	mg/kg-ww	28						5.0E-03	5.0E-03	5.0E-03	5.0E-03
δ–Ηεξαχηλοροχψχλοηεξανε	mg/kg-ww	28						5.0E-03	5.0E-03	5.0E-03	5.0E-03
γ–Ηεξαχηλοροχψχλοηεξανε (Λινδανε)	mg/kg-ww	28						5.0E-03	5.0E-03	5.0E-03	5.0E-03
cis-Nonachlor	mg/kg-ww	28	5	5.0E-03	7.2E-03	6.7E-03	1.3E-02	5.0E-03	5.0E-03	5.0E-03	5.0E-03
trans-Nonachlor	mg/kg-ww	100	16	5.0E-03	7.8E-03	7.2E-03	1.3E-02	5.0E-03	5.0E-03	5.0E-03	5.0E-03
Oxychlordane	mg/kg-ww	100	26	5.0E-03	1.5E-02	1.3E-02	4.8E-02	5.0E-03	9.9E-03	9.8E-03	1.0E-02
cis-Chlordane	mg/kg-ww	100	19	5.0E-03	6.4E-03	6.0E-03	1.3E-02	5.0E-03	5.0E-03	5.0E-03	5.0E-03
trans-Chlordane	mg/kg-ww	100	11	5.0E-03	7.3E-03	6.9E-03	1.3E-02	5.0E-03	5.0E-03	5.0E-03	5.0E-03
Chlordane (Sum)	mg/kg-ww	100	44	5.0E-03	1.9E-02	1.4E-02	9.5E-02	5.0E-03	5.0E-03	5.0E-03	5.0E-03
Aldrin	mg/kg-ww	28						5.0E-03	5.0E-03	5.0E-03	5.0E-03
Dieldrin	mg/kg-ww	100	13	5.0E-03	6.7E-03	6.4E-03	1.2E-02	5.0E-03	5.0E-03	5.0E-03	5.0E-03
Aldrin and dieldrin (Sum)	mg/kg-ww	100	13	5.0E-03	6.7E-03	6.4E-03	1.2E-02	5.0E-03	5.0E-03	5.0E-03	5.0E-03
α–Ενδοσυλφαν	mg/kg-ww	28						5.0E-03	5.0E-03	5.0E-03	5.0E-03
β–Ενδοσυλφαν	mg/kg-ww	28						5.0E-03	5.0E-03	5.0E-03	5.0E-03
Endosulfan sulfate	mg/kg-ww	28						5.0E-03	5.0E-03	5.0E-03	5.0E-03
Endrin	mg/kg-ww	100						3.6E-03	5.0E-03	5.0E-03	5.0E-03
Endrin aldehyde	mg/kg-ww	28						5.0E-03	5.0E-03	5.0E-03	5.0E-03
Heptachlor	mg/kg-ww	28						5.0E-03	5.0E-03	5.0E-03	5.0E-03
Heptachlor epoxide	mg/kg-ww	28	6	5.0E-03	7.2E-03	6.8E-03	1.0E-02	5.0E-03	5.0E-03	5.0E-03	5.0E-03
Heptachlor and heptachlor epoxide (Sum)	mg/kg-ww	28	6	5.0E-03	7.2E-03	6.8E-03	1.0E-02	5.0E-03	5.0E-03	5.0E-03	5.0E-03
4,4'-DDD	mg/kg-ww	100	90	2.0E-03	9.2E-03	6.9E-03	5.2E-02	2.0E-03	2.0E-03	2.0E-03	2.0E-03
4,4'-DDE	mg/kg-ww	100	97	2.0E-03	2.3E-02	1.5E-02	0.2	2.0E-03	2.0E-03	2.0E-03	2.0E-03
4,4'-DDT	mg/kg-ww	100	82	2.0E-03	1.0E-02	6.7E-03	8.2E-02	2.0E-03	2.0E-03	2.0E-03	2.0E-03
DDT and metabolites (Sum)	mg/kg-ww	100	97	2.0E-03	4.6E-02	2.5E-02	0.6	2.0E-03	2.0E-03	2.0E-03	2.0E-03
Ortho-para DDD	mg/kg-ww	28	2	5.0E-03	5.0E-03	5.0E-03	5.0E-03	5.0E-03	5.0E-03	5.0E-03	5.0E-03
Ortho-para DDE	mg/kg-ww	28	7	5.0E-03	9.9E-03	8.6E-03	2.4E-02	5.0E-03	5.0E-03	5.0E-03	5.0E-03
Ortho-para DDT	mg/kg-ww	28						5.0E-03	5.0E-03	5.0E-03	5.0E-03
Ortho-para DDT sum	mg/kg-ww	28	7	5.0E-03	1.1E-02	9.7E-03	2.4E-02	5.0E-03	5.0E-03	5.0E-03	5.0E-03
Mirex	mg/kg-ww	100	3	2.0E-03	2.0E-03	2.0E-03	2.0E-03	2.0E-03	2.0E-03	2.0E-03	2.0E-03
Photomirex	mg/kg-ww	100						5.0E-03	5.0E-03	5.0E-03	5.0E-03

Table G1-107. (cont.)

Analyte	Units	Number of Fish Analyzed	Number of Detected Values	Minimum Detected Value	Mean Detected Value	Geometric Mean Detected Value	Maximum Detected Value	Minimum Detection Limit	Mean Detection Limit	Geometric Mean Detection Limit	Maximum Detection Limit
Mirex and photomirex	mg/kg-ww	7						7.0E-03	7.0E-03	7.0E-03	7.0E-03
Aroclor 1016	mg/kg-ww	65	60	2.2E-02	0.2	0.1	1.1	2.0E-02	2.0E-02	2.0E-02	2.0E-02
Aroclor 1242	mg/kg-ww	28	28	9.0E-02	0.4	0.3	2.0				
Aroclors 1254 and 1260	mg/kg-ww	100	98	2.0E-02	0.4	0.3	1.9	2.0E-02	2.0E-02	2.0E-02	2.0E-02
PCBs (Sum)	mg/kg-ww	100	98	3.0E-02	0.7	0.5	3.9	2.0E-02	2.0E-02	2.0E-02	2.0E-02
Dioxins/Furans											
2,3,7,8-Tetrachlorodibenzofuran	ng/kg-ww	23	23	0.2	9.1	3.8	40				
Total tetrachlorodibenzofurans	ng/kg-ww	8	8	0.7	2.7	1.8	8.7				
2,3,7,8-Tetrachlorodibenzodioxin	ng/kg-ww	23	20	0.1	1.0	0.7	3.1	0.2	0.7	0.6	1.1
Total tetrachlorodibenzodioxins	ng/kg-ww	8	7	0.1	0.3	0.3	0.5	0.9	0.9	0.9	0.9
1,2,3,7,8-Pentachlorodibenzofuran	ng/kg-ww	23	17	0.3	2.5	1.4	7.6	0.2	0.7	0.6	1.2
2,3,4,7,8-Pentachlorodibenzofuran	ng/kg-ww	23	23	0.3	13	4.2	71				
Sum of pentachlorodibenzofurans	ng/kg-ww	8	8	0.3	1.3	1.0	3.2				
1,2,3,7,8-Pentachlorodibenzodioxin	ng/kg-ww	23	16	0.3	1.7	1.2	4.7	0.6	1.5	1.3	3.3
Total pentachlorodibenzodioxins	ng/kg-ww	8	2	0.7	0.8	0.8	0.8	1.1	1.65	1.5	3.3
1,2,3,4,7,8-Hexachlorodibenzofuran	ng/kg-ww	23	16	0.2	1.9	0.9	7.2	0.2	1.3	1.0	2.8
1,2,3,6,7,8-Hexachlorodibenzofuran	ng/kg-ww	23	13	0.1	0.9	0.5	3.0	0.1	1.0	0.7	2.5
2,3,4,6,7,8-Hexachlorodibenzofuran	ng/kg-ww	23	13	0.1	0.5	0.3	1.4	0.1	1.2	0.8	3.2
1,2,3,7,8,9-Hexachlorodibenzofuran	ng/kg-ww	23						0.1	0.7	0.3	3.6
Sum of hexachlorodibenzofurans	ng/kg-ww	8	2	0.3	0.4	0.4	0.5	0.9	1.5	1.3	2.8
1,2,3,4,7,8-Hexachlorodibenzodioxin	ng/kg-ww	23	9	0.1	0.5	0.3	1.0	0.1	2.9	0.9	17
1,2,3,6,7,8-Hexachlorodibenzodioxin	ng/kg-ww	23	15	0.3	1.07	0.8	3.2	0.2	3.9	2.1	14
1,2,3,7,8,9-Hexachlorodibenzodioxin	ng/kg-ww	23	8	0.1	0.3	0.3	0.8	0.1	2.4	0.7	14
Sum of hexachlorodibenzodioxins	ng/kg-ww	8	2	0.4	0.4	0.4	0.4	1.6	5.1	3.8	14
1,2,3,4,6,7,8-Heptachlorodibenzofuran	ng/kg-ww	23	13	0.3	1.0	0.7	3.3	0.1	1.6	1.0	4.5
1,2,3,4,7,8,9-Heptachlorodibenzofuran	ng/kg-ww	23						1.0E-02	1.1	0.3	6.5
Sum of heptachlorodibenzofurans	ng/kg-ww	8						1.0	2.0	1.8	4.5
1,2,3,4,6,7,8-Heptachlorodibenzodioxin	ng/kg-ww	23	14	0.2	0.9	0.6	2.7	0.2	25	7.3	130
Total heptachlorodibenzodioxins	ng/kg-ww	8						1.9	28	11	130
Octachlorodibenzofuran	ng/kg-ww	23	8	0.1	0.3	0.2	0.6	0.1	2.2	0.8	10
Octachlorodibenzodioxin	ng/kg-ww	23	15	0.4	1.0	0.8	2.3	5.5	100	42	300
Mammalian TEQ (1/2 DL)	ng/kg-ww	23	23	1.0	11	5.7	46				
Avian TEQ (1/2 DL)	ng/kg-ww	23	23	1.9	25	13	94				

Notes: TEQ – toxicity equivalent

Table G1-108. Methylmercury in Fish from Onondaga Lake Collected by Honeywell/PTI in 1992

		Fillet					Whole Body				
		Methylmercury (mg/kg wet weight)		Methylmercury (lipid normalized mg/kg wet weight)			Methylmercury (mg/kg wet weight)		Methylmercury (lipid normalized mg/kg wet weight)		
Species	Age	Mean	Range	Mean	Range	Number of Fish	Mean	Range	Mean	Range	Number of Fish
White perch	0	1.2	--	38	--	1					
	3	1.1	--	46	--	1					
	4	1.2	0.7 - 1.6	54	23 - 93	9	1.1	0.9 - 1.2	19	13 - 34	7
	5	1.0	0.2 - 2.0	64	20 - 166	6	1.1	0.9 - 1.2	14	12 - 17	2
	6	1.1	0.7 - 1.6	40	18 - 81	3	0.5	--	23	--	1
Walleye	0	1.1	--	68	--	1					
	4	0.5	0.3 - 0.6	45	21 - 69	2					
	5	1.5	0.3 - 3.2	83	22 - 208	10					
	6	1.9	1.3 - 2.4	103	61 - 121	5					
	7	2.3	--	122	--	1					
	8	1.5	--	59	--	1					
Smallmouth bass	0	1.0	0.7 - 1.7	103	38 - 197	4					
	4	0.5	0.3 - 0.9	87	29 - 151	6					
	5	0.6	0.3 - 0.9	94	50 - 172	6					
	6	0.8	0.5 - 1.2	122	46 - 321	9	0.7	0.6 - 0.7	39	16 - 62	2
	7	0.8	0.3 - 1.2	121	46 - 240	4					
	8						0.8	0.8 - 1.0	24	20 - 27	3
	9	0.8	0.7 - 0.9	36	23 - 49	2	0.9	--	28	--	1
Gizzard shad	0	0.2	--	3.3	--	1					
	3	0.2	0.1 - 0.3	2.1	0.7 - 5.7	8	0.2	0.1 - 0.2	2.6	1.0 - 4.2	4
	4	0.3	0.2 - 0.4	3.4	1.7 - 7.5	7	0.2	2.9E-02 - 0.3	3.0	0.5 - 6.7	6
	5	0.2	0.1 - 0.3	3.7	2.0 - 7.8	4					
Catfish	0	0.7	0.5 - 0.9	24	13 - 34	4					
	5	0.8	--	17	--	1					
	6	0.7	--	11	--	1					
	7	0.9	--	78	--	1					
	8	0.8	0.6 - 1.1	32	7.9 - 47	4					
	10	0.8	0.6 - 1.0	36	17 - 57	5					
	11	0.4	0.3 - 0.7	17	3.1 - 25	3					
	12	0.7	0.5 - 0.8	16	10 - 22	2					
Carp	0	0.3	0.2 - 0.5	30	10 - 67	3					
	7	0.3	4.1E-02 - 0.6	22	2.2 - 68	6					
	8	0.4	0.2 - 0.6	14	6.5 - 24	5					
	9	0.6	0.1 - 0.8	31	8.4 - 64	6					
Bluegill	0	0.3	--	20	--	1					
	3						0.1	0.1 0.2	14	3.5 - 25	2
	4	0.2	4.9E-02 - 0.5	26	5.4 - 48	12	0.1	0.1 - 0.2	15	3.3 - 50	6
	5	0.3	5.0E-02 - 0.9	40	6.5 - 135	13	0.3	0.2 - 0.3	22	12 - 31	2
	6	0.2	--	35	--	1					
	7	0.9	0.8 - 0.9	132	126 - 137	2					

Note: All fish samples had detected methylmercury concentrations.

Table G-109. Concentration of Total Mercury in Adult Fish Collected by Honeywell/Exponent and NYSDEC from Onondaga Lake in 2000

		Fillet			Whole Body		
		Mercury (mg/kg wet weight)		Number	Mercury (mg/kg wet weight)		Number
Species	Age	Mean	Range	of Fish	Mean	Range	of Fish
Onondaga Lake							
Bluegill	1				0.2	--	1
	2				0.2	0.2 - 0.2	2
	3	0.4	--	1	0.4	0.3 - 0.6	3
	4	0.2	--	1			
Carp	7	0.4	0.4 - 0.5	2	0.2	--	1
	8	0.4	--	1	0.3	0.2 - 0.4	3
	9				0.3	--	1
	10	--	--	--			
	12				0.4	--	1
Catfish	9	0.5	--	1			
	12	0.7	--	1	0.5	0.4 - 0.7	2
	14				0.4	--	1
	16				0.9	--	1
Largemouth bass	3	0.7	0.3 - 1.1	6			
	4	0.9	0.3 - 1.5	35			
	5	1.3	0.9 - 1.9	11			
Smallmouth bass	3	0.5	0.4 - 0.7	21			
	4	0.7	0.5 - 1.1	9			
	5	1.0	0.6 - 1.5	14	0.5	--	1
	6	1.0	0.9 - 1.1	3	0.5	--	1
	8	1.5	--	1	1.0	1.0 - 1.1	2
Tributaries							
Carp	--	0.7	0.5 - 0.9	2	--	--	--
Smallmouth bass	--	0.7	0.6 - 0.8	2	--	--	--

Note: All fish samples had detected mercury concentrations.
Whole body values do not include fillet-remainder samples

Table G-110. Concentration of Total Mercury in Juvenile Fish Collected by Honeywell/Exponent from Onondaga Lake in 2000

			Whole Body Mercury (mg/kg wet weight)		
	Species	Age	Mean	Range	Number of Fish
Onondaga Lake					
	Largemouth bass	0	0.2	--	1
Tributaries					
	Bluegill	0	0.1	5.4E-02 - 0.2	7
	Largemouth bass	0	8.7E-02	7.9E-02 - 0.1	2
	Pumpkinseed	0	8.9E-02	4.8E-02 - 0.1	5

Note: All fish samples had detected mercury concentrations.

Table G1-111. Concentrations of Total PCBs in Fillet and Whole Body of Adult Fishes from Onondaga Lake Collected by NYSDEC in 1992

	Fillet					Whole Body				
	Total PCBs (mg/kg wet weight)		Total PCBs (lipid normalized mg/kg wet weight)		Number	Total PCBs (mg/kg wet weight)		Total PCBs (lipid normalized mg/kg wet weight)		Number
Species	Mean	Range	Mean	Range	of Fish	Mean	Range	Mean	Range	of Fish
Onondaga Lake										
Smallmouth bass	0.8	0.5 - 1.2	41	27 - 61	5	7.3	3.6 - 11	386	190 - 581	2
Walleye	1.5	0.7 - 3.1	77	35 - 161	5	--	--	--	--	--
White perch	--	--	--	--	--	1.7	1.0 - 2.4	44	26 - 62	2
Tributaries										
Carp	0.2	0.2 - 0.3	3,127	2.4 - 3.8	2	1.3	1.2 - 1.5	57	49 - 65	2
White Sucker	--	--	--	--	--	0.5	5.0E-02 - 1.1	25	23 - 48	2

Notes: Total PCBs are calculated by one of the following three methods:
Number of fish as presented are for Total PCBs. The lipid normalized number of fish is one less for bluegill (fillet), gizzard shad (fillet) and catfish (whole body) due to a lack of lipid data for these samples.

Table G1-112. Concentrations of Total PCBs in Fillet and Whole Body of Adult Fishes Collected by N YSDEC/Honeywell/Exponent from Onondaga Lake in 2000

	Fillet					Whole Body				
	Total PCBs (mg/kg wet weight)		Total PCBs (lipid normalized mg/kg wet weight)			Total PCBs (mg/kg wet weight)		Total PCBs (lipid normalized mg/kg wet weight)		
Species	Mean	Range	Mean	Range	Number of Fish	Mean	Range	Mean	Range	Number of Fish
Onondaga Lake										
Bluegill	0.2	0.1 - 0.4	15	13 - 16	2	0.4	0.3 - 0.65	14	7.6 - 19	4
Carp	0.8	0.6 - 1.0	8.6	4.1 - 11	3	2.0	0.5 - 2.8	16	4.2 - 25	6
Catfish	1.2	0.5 - 1.8	22	16 - 28	2	3.0	2.2 - 3.4	41	37 - 44	3
Largemouth bass	0.2	0.1 - 0.4	10	5.3 - 20	5	--	--	--	--	--
Smallmouth bass	0.4	0.3 - 0.8	22	16 - 41	5	1.6	0.6 - 2.43	27	20 - 41	4
Tributaries										
Carp	1.0	0.2 - 1.8	21	18 - 25	2	--	--	--	--	--
Smallmouth bass	0.2	8.8E-02 - 0.2	11	8.0 - 15	2	--	--	--	--	--

Note: Whole body values do not include fillet-remainder samples

Table G1-113. Dioxins/Furans in Fish Tissue Collected from Onondaga Lake by Honeywell/Exponent and NYSDEC from 1992 - 2000

	Juvenile Fish					Fillets					Whole Body				
	TEQs (Avian) (ng/kg-ww)		TEQs (Mammalian) (ng/kg-ww)		Number	TEQs (Avian) (ng/kg-ww)		TEQs (Mammalian) (ng/kg-ww)		Number	TEQs (Avian) (ng/kg-ww)		TEQs (Mammalian) (ng/kg-ww)		Number of
Species	**Mean**	**Range**	**Mean**	**Range**	**of Fish**	**Mean**	**Range**	**Mean**	**Range**	**of Fish**	**Mean**	**Range**	**Mean**	**Range**	**Fish**
Onondaga Lake															
Bluegill						1.0	0.5 - 1.5	0.4	0.3 - 0.6	2	4.1	1.9 - 6.4	1.5	0.7 - 2.5	5
Carp						51	10 - 101	23	5.1 - 41	4	56	18 - 128	26	6.2 - 62	6
Catfish						5.2	2.0 - 8.0	2.9	1.0 - 4.4	6	22	13 - 39	13	7.8 - 22	3
Largemouth bass	1	--	0.3	-- --	1	5.2	2.7 - 7.6	4.6	2.5 - 6.7	2	--	--	--	--	--
Smallmouth bass						3.6	2.8 - 4.4	2.6	2.4 - 2.8	2	11	1.7 - 16	3.4	1.0 - 6.2	6
White perch						7.2	3.0 - 13	2.7	1.8 - 3.6	4	44	31 - 56	6.4	4.9 - 7.8	2
Tributaries															
Bluegill	5.3	1.2 - 13	1.9	0.4 - 4.7	7	--	--	--	--	--					
Catfish	--	--	--	-- --	--	11	--	6.6	--	1	--	--	--	--	--
Carp	--	--	--	-- --	--	48	1.2 - 94	22	0.6 - 46	6	--	--	--	--	--
Largemouth bass	2.5	2.3 - 2.6	1.1	0.9 - 1.3	2	--	--	--	--	--					
Smallmouth bass	--	--	--	-- --	--	1.8	1.2 - 2.4	0.5	0.3 - 0.6	2	--	--	--	--	--
White perch	--	--	--	-- --	--	33	15 - 55	8.2	2.4 - 14	5	--	--	--	--	--
Pumpkinseed	3.9	3.1 - 5.5	1.3	0.7 - 1.8	5	--	--	--	--	--	--	--	--	--	--

Notes: Dioxin/Furan TEQs are calcuated by using the WHO TEFs for risks to 1. Avian and 2. Mammalian populations.
Whole body values do not include fillet-remainder samples

Table G1-114. Summary Statistics for Lake Benthic Macroinvertebrates and Phytoplankton Collected by Honeywell/PTI in 1992

	Concen-tration Units	Measure-ment Basis	Number of Analyses	Number of Detected Values	Minimum Detected Value	Mean Detected Value	Geometric Mean Detected Value	Maximum Detected Value	Minimum Detection Limit	Mean Detection Limit	Geometric Mean Detection Limit	Maximum Detection Limit
Amphipods												
Mercury	µg/kg	ww	7	7	40	80	61	270				
Methylmercury	µg/kg	ww	7	7	20	33	27	100				
Chironomids												
Mercury	µg/kg	ww	8	8	70	164	140	380				
Methylmercury	µg/kg	ww	8	8	10	18	15	50				
Daphnids												
Mercury	µg/kg	ww	11	11	247	545	489	994				
Methylmercury	µg/kg	ww	18	18	165	254	245	390				
Zooplankton												
Mercury	µg/kg	ww	18	18	23	85	70	247				
Methylmercury	µg/kg	ww	18	18	21	52	43	184				
Phytoplankton												
Mercury	µg/kg	ww	6	6	90	165	155	300				
Methylmercury	µg/kg	ww	6	6	4.0	20	15	39				

Table G1-115. Summary Statistics for Lake Benthic Macroinvertebrates Collected by Honeywell/Exponent in 2000

	Concen-tration Units	Measure-ment Basis	Number of Analyses	Number of Detected Values	Minimum Detected Value	Mean Detected Value	Geometric Mean Detected Value	Maximum Detected Value	Minimum Detection Limit	Mean Detection Limit	Geometric Mean Detection Limit	Maximum Detection Limit
Amphipods												
Total mercury	µg/kg	ww	10	10	28	115	84	380				
Methylmercury	µg/kg	ww	10	9	18	39	35	92	251	251	251	251
Chironomids												
Total mercury	µg/kg	ww	16	16	46	1,167	347	7,470				
Methylmercury	µg/kg	ww	16	16	4.6	51	24	355				
Oligocheates												
Total mercury	µg/kg	ww	15	14	74	1,202	356	6,480	747	747	747	747
Methylmercury	µg/kg	ww	15	10	3.1	24	14	64	2.9	222	23	1020
Pesticides/Polychlorinated Biphenyls[a]												
Aroclor 1016	µg/kg	ww	7	0					77	129	125	183
Aroclor 1221	µg/kg	ww	7	0					77	129	125	183
Aroclor 1232	µg/kg	ww	7	0					77	129	125	183
Aroclor 1242	µg/kg	ww	7	5	50	109	98	195	138	161	159	183
Aroclor 1248	µg/kg	ww	7	1	79	79	79	79	77	120	118	150
Aroclor 1254	µg/kg	ww	7	3	42	71	65	113	107	133	132	150
Aroclor 1260	µg/kg	ww	7	3	30	40	38	56	77	137	131	183
Aroclor 1268	µ g/kg	ww	7	0					77	129	125	183
Total PCBs	µ g/kg	ww	7	6	79	172	159	308	138	138	138	138

Note: [a]Samples include amphipods and chironomids.

Table G1-13. Summary Statistics for Lake Surface Sediment and Grab Samples Collected by Honeywell/PTI in 1992 (0 to 2 cm depth)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Acid-volatile sulfide	mg/kg	dw	112	20	6,600	1,934	1,800	1,637	155	0.49	-0.83	8	10	30	20.0	20.0
Calcium carbonate	%	dw	120	16.6	91	61.6	57.9	17.0	1.55	0.02	-0.36					
Chloride-Calculated	mg/kg	ww	120	243	9,333	775	585	1,063	97.0	5.89	39.9					
Chloride-Measured	mg/kg	dw	120	130	14,000	1,554	810	1,829	167	3.98	22.7					
Total organic carbon	%	dw	122	0.24	3.7	1.9	1.82	1.1	0.10	0.05	-1.62					
Percent moisture	%	ww	120	28.9	80.6	60.4	57.6	15.1	1.38	-0.16	-1.33					
Total solids	%	ww	120	19.4	71.1	39.6	42.4	15.1	1.38	0.16	-1.33					
Percent clay	%	ww	120	0.4	8.7	3.0	2.2	2.4	0.22	0.80	-0.77					
Percent silt	%	ww	120	0.3	33.3	11.9	13.4	7.6	0.69	0.26	-0.36					
Percent sand	%	ww	120	0.4	70.8	24.4	19.1	22.5	2.06	0.37	-1.40					
Total Metals and Cyanide																
Aluminum	mg/kg	dw	21	159	5,610	2,276	2,320	1,478	323	0.36	-0.47					
Antimony	mg/kg	dw	5	3.1	6.4	4.6	4	1.6	0.73	0.43	-3.14	16	1.9	8.8	4.81	3.85
Arsenic	mg/kg	dw	21	0.45	11.2	3.0	2.8	2.5	0.54	1.91	5.19	0				
Barium	mg/kg	dw	21	27	890	179	97.1	209	45.6	2.69	7.14					
Beryllium	mg/kg	dw	3	0.24	0.6	0.4	0.36	0.2	0.11	0.94		18	0.17	0.8	0.36	0.35
Cadmium	mg/kg	dw	111	0.24	14.2	2.5	2.2	2.0	0.19	2.77	11.6	9	0.3	1	0.63	0.54
Calcium	mg/kg	dw	120	51,000	443,000	213,000	202,500	67,128	6,128	0.37	0.45					
Chromium	mg/kg	dw	120	5.9	1,990	79.2	48.2	193	17.6	8.67	83.6	0				
Cobalt	mg/kg	dw	21	0.56	87.9	7.5	3	18.6	4.05	4.47	20.2	0				
Copper	mg/kg	dw	115	4.5	173	44.4	42.3	28.3	2.64	1.49	4.32	5	9.3	13.4	11.0	10.8
Iron	mg/kg	dw	21	874	34,200	7,047	4,090	7,411	1,617	2.71	8.96					
Lead	mg/kg	dw	120	2.4	251	51.2	47.4	42.7	3.90	1.93	6.03	0				
Magnesium	mg/kg	dw	120	2,340	17,700	5,874	5,255	2,998	274	1.56	3.19					
Manganese	mg/kg	dw	21	93.3	508	269	246	101	22.0	0.84	0.58					
Mercury	mg/kg	dw	118	0.15	68.9	3.9	2.45	7.6	0.70	6.14	46.6	2	0.14	0.16	0.15	0.15
Nickel	mg/kg	dw	115	1.8	650	27.8	20.9	62.8	5.86	8.90	86.5	5	7.7	28.1	22.6	25.7
Potassium	mg/kg	dw	21	87.7	699	244	184	168	36.7	1.46	1.65	0				
Selenium	mg/kg	dw	14	0.25	1.1	0.5	0.43	0.3	0.07	1.11	0.09	7	0.15	0.32	0.26	0.28
Silver	mg/kg	dw	16	0.53	5.1	1.4	0.95	1.2	0.29	2.37	6.30	5	0.34	1.4	0.88	0.69
Sodium	mg/kg	dw	21	163	3,520	981	544	844	184	1.59	2.61	0				
Thallium	mg/kg	dw	13	0.19	0.65	0.5	0.45	0.1	0.04	-0.46	0.03	8	0.11	0.72	0.37	0.29
Vanadium	mg/kg	dw	16	0.51	101	11.8	5.15	24.2	6.05	3.78	14.7	5	0.4	0.71	0.57	0.54
Zinc	mg/kg	dw	120	16.4	276	114	126	58.5	5.34	0.16	-0.67	0				
Volatile Organic Compounds																
Benzene	µg/kg	dw	40	6	5,700	447	20	1,265	200	3.53	12.3	80	7	3,400	105	11.0
Toluene	µg/kg	dw	76	3	4,200	149	21	532.4	61.1	6.39	46.1	44	8	3,400	150	15.0
Ethylbenzene	µg/kg	dw	2	16	1,300	658	658	908	642			118	7	3,400	135	19.0
Styrene	µg/kg	dw										20	14	3,400	425	19.0
Xylene (Total)	µg/kg	dw	5	14	13,000	3,619	1,800	5,358	2,396	2.01	4.17	115	7	3,400	99.6	18.0

Table G1-13. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Chlorobenzene	µg/kg	dw	39	6	43,000	3,025	49	9,364	1,499	3.46	11.2	81	7	1,500	46.3	13.0
1,2-Dichlorobenzene	µg/kg	dw	16	19	7,900	1,050	67	2,096	524	2.74	7.94	104	7	10,000	222	19.0
1,3-Dichlorobenzene	µg/kg	dw	6	21	6,800	1,487	422	2,647	1,081	2.28	5.30	114	7	4,400	197	19.0
1,4-Dichlorobenzene	µg/kg	dw	39	5	16,000	1,380	64	3,459	554	3.10	9.51	81	7	2,800	121	17.0
Dichlorobenzene, non-specific			38	5	22,800	2,093	73	5,298	859	2.97	8.18	82	7	42,000	634	18.5
1,2,3-Trichlorobenzene	µg/kg	dw										102	7	2,700	102	19.0
1,2,4-Trichlorobenzene	µg/kg	dw	5	25	320	186	260	140	62.7	-0.51	-3.10	115	7	10,000	283	19.0
1,3,5-Trichlorobenzene	µg/kg	dw	3	560	4,200	2,020	1,300	1,924	1,111	1.45		99	7	1,500	55.1	18.0
Trichlorobenzene			4	25	4,200	1,521	930	1,861	930	1.55	2.45	98	7	1,500	55.4	17.5
Chloromethane	µg/kg	dw										20	14	3,400	425	19.0
Bromomethane	µg/kg	dw										20	14	3,400	425	19.0
Chloroethane	µg/kg	dw										20	14	3,400	425	19.0
Methylene chloride	µg/kg	dw	2	51	76	63.5	63.5	17.7	12.5			18	15	3,400	469	20.5
1,1-Dichloroethane	µg/kg	dw										20	14	3,400	425	19.0
Chloroform	µg/kg	dw										20	14	3,400	425	19.0
1,2-Dichloroethane	µg/kg	dw										20	14	3,400	425	19.0
1,1,1-Trichloroethane	µg/kg	dw										20	14	3,400	425	19.0
Carbon tetrachloride	µg/kg	dw										20	14	3,400	425	19.0
Bromodichloromethane	µg/kg	dw										20	14	3,400	425	19.0
1,2-Dichloropropane	µg/kg	dw										20	14	3,400	425	19.0
Dibromochloromethane	µg/kg	dw										20	14	3,400	425	19.0
1,1,2-Trichloroethane	µg/kg	dw										20	14	3,400	425	19.0
Bromoform	µg/kg	dw										20	14	3,400	425	19.0
1,1,2,2-Tetrachloroethane	µg/kg	dw										20	14	3,400	425	19.0
Vinyl chloride	µg/kg	dw										20	14	3,400	425	19.0
1,1-Dichloroethene	µg/kg	dw										20	14	3,400	425	19.0
1,2-Dichloroethene (Total)	µg/kg	dw										20	14	3,400	425	19.0
cis-1,3-Dichloropropene	µg/kg	dw										20	14	3,400	425	19.0
trans-1,3-Dichloropropene	µg/kg	dw										20	14	3,400	425	19.0
Trichloroethene	µg/kg	dw										20	14	3,400	425	19.0
Tetrachloroethene	µg/kg	dw										20	14	3,400	425	19.0
Acetone	µg/kg	dw	17	34	1,100	241	96	341	82.6	2.18	3.79	3	1,700	3,400	2,700	3,000
2-Butanone	µg/kg	dw	8	26	2,900	423	36.5	1,003	354	2.81	7.91	12	14	3,400	441	17.5
2-Hexanone	µg/kg	dw										20	14	3,400	425	19.0
4-Methyl-2-pentanone	µg/kg	dw										20	14	3,400	425	19.0
Carbon disulfide	µg/kg	dw										20	14	3,400	425	19.0
Semivolatile Organic Compounds																
1,2,3,4-Tetrachlorobenzene	µg/kg	dw	15	7.2	650	64.2	12	164	42.39	3.72	14.1	56	3.2	15	7.29	6.80
Unres. comb. of 1,2,3/4,5 Tetrachlorobenzene																
Pentachloro benzene	µg/kg	dw	10	3.2	330	46.1	8.6	101	31.8	3.07	9.57	61	3.5	17	7.60	6.90
Hexachlorobenzene	µg/kg	dw	37	3.4	1,200	63.0	6.6	201	33.0	5.36	30.5	55	4.8	42,000	1,246	8.50
2-Chloronaphthalene	µg/kg	dw										21	75	42,000	3,249	360
Naphthalene	µg/kg	dw	42	81	30,000	3,415	805	6,757	1,043	2.83	7.46	41	75	42,000	1,801	330
Acenaphthylene	µg/kg	dw	31	34	6,300	1,255	670	1,368	246	1.96	4.93	52	75	42,000	4,208	715
Acenaphthene	µg/kg	dw	37	41	15,000	1,299	630	2,624	431	4.53	22.1	46	75	42,000	2,738	370
Fluorene	µg/kg	dw	45	35	7,200	614	120	1,262	188	3.81	17.1	38	47	42,000	1,849	79.0

Table G1-13. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Phenanthrene	µg/kg	dw	67	17	22,000	1,436	260	3,534	432	4.32	21.0	16	24	42,000	2,857	34.5
Anthracene	µg/kg	dw	62	13	8,900	689	94.5	1,605	204	3.47	12.9	21	24	42,000	2,967	36.0
2-Methylnaphthalene	µg/kg	dw	7	33	3,700	1,100	690	1,267	479	1.78	3.29	14	75	42,000	4,177	170
Low molecular weight polycyclic aromatic hydrocarbon																
Fluoranthene	µg/kg	dw	76	28	230,000	7,485	965	28,339	3,251	6.94	52.7	7	47	4,400	725	75.0
Pyrene	µg/kg	dw	70	22	17,000	1,435	415	2,766	331	3.63	15.5	13	28	42,000	4,530	38.0
Benz(a)anthracene	g/kg	dw	68	16	7,700	756	200	1,395	169	3.11	10.6	15	28	42,000	3,999	38.0
Chrysene	µg/kg	dw	66	14	7,500	951	320	1,626	200	2.78	7.46	17	24	42,000	3,756	86.0
Benzo(b)fluoranthene	µg/kg	dw	65	41	29,000	1,691	390	3,944	489	5.57	36.8	18	58	42,000	3,523	140
Benzo(k)fluoranthene	µg/kg	dw	49	12	3,800	367	140	695	99.3	3.58	13.9	34	29	42,000	2,103	150
Total benzofluoranthenes (b + k)												1	20,000	20,000	20,000	20,000
Benzo(a)pyrene	µg/kg	dw	66	21	7,800	621	180	1,265	156	3.82	17.2	17	24	42,000	3,670	86.0
Indeno(1,2,3-cd)pyrene	µg/kg	dw	45	16	2,300	421	210	539	80.3	2.16	4.24	38	24	42,000	1,825	74.5
Dibenz(a,h)anthracene	µg/kg	dw	47	19	890	218	98	249	36.3	1.45	0.79	36	47	42,000	1,995	100
Benzo(g,h,i)perylene	µg/kg	dw	66	20	9,300	1,098	470	1,501	185	3.13	13.4	17	47	42,000	3,689	86.0
High molecular weight polycyclic aromatic hydrocarbon																
Phenol	µg/kg	dw	2	45	45	45	45	0	0			19	75	42,000	3,577	370
2-Methylphenol	µg/kg	dw										21	75	42,000	3,249	360
4-Methylphenol	µg/kg	dw	1	82	82	82	82					20	75	42,000	3,408	365
2,4-Dimethylphenol	µg/kg	dw										21	75	42,000	3,249	360
2-Chlorophenol	µg/kg	dw										21	75	42,000	3,249	360
2,4-Dichlorophenol	µg/kg	dw										21	75	42,000	3,249	360
4-Chloro-3-methylphenol	µg/kg	dw										21	75	42,000	3,249	360
2,4,6-Trichlorophenol	µg/kg	dw										21	75	42,000	3,249	360
2,4,5-Trichlorophenol	µg/kg	dw										21	190	100,000	7,937	890
Pentachlorophenol	µg/kg	dw										21	190	100,000	7,937	890
2-Nitrophenol	µg/kg	dw										21	75	42,000	3,249	360
4-Nitrophenol	µg/kg	dw										21	190	100,000	7,937	890
2,4-Dinitrophenol	µg/kg	dw										21	190	100,000	7,937	890
2-Methyl-4,6-dinitrophenol	µg/kg	dw										21	190	100,000	7,937	890
Hexachloroethane	µg/kg	dw										21	75	42,000	3,249	360
Hexachlorobutadiene	µg/kg	dw										21	75	42,000	3,249	360
Hexachlorocyclopentadiene	µg/kg	dw										21	75	42,000	3,249	360
Bis(2-chloroethyl)ether	µg/kg	dw										21	75	42,000	3,249	360
4-Chlorophenyl-phenyl ether	µg/kg	dw										21	75	42,000	3,249	360
4-Bromophenyl-phenyl ether	µg/kg	dw										21	75	42,000	3,249	360
Bis(2-chloroethoxy)methane	µg/kg	dw										21	75	42,000	3,249	360
2,2'-Oxybis(1-chloropropane)	µg/kg	dw										21	75	42,000	3,249	360
Dimethylphthalate	µg/kg	dw										21	75	42,000	3,249	360
Diethylphthalate	µg/kg	dw										21	75	42,000	3,249	360
Di-n-butylphthalate	µg/kg	dw										21	75	42,000	3,249	360
Butylbenzylphthalate	µg/kg	dw										21	75	42,000	3,249	360
Bis(2-ethylhexyl)phthalate	µg/kg	dw	16	22	3,000	808	395	963	241	1.30	0.77	5	170	42,000	11,352	4,400
Di-n-octylphthalate	µg/kg	dw										21	75	42,000	3,249	360
Isophorone	µg/kg	dw										21	75	42,000	3,249	360

Table G1-13. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Dibenzofuran	µg/kg	dw	7	18	1,600	682	470	619	234	0.38	-1.61	14	75	42,000	4,486	275
Carbazole	µg/kg	dw	7	20	470	277	330	174	65.7	-0.86	-0.89	14	75	42,000	4,484	275
Nitrobenzene	µg/kg	dw										21	75	42,000	3,249	360
N-nitroso-di-n-propylamine	µg/kg	dw										21	75	42,000	3,249	360
2-Nitroaniline	µg/kg	dw										21	190	100,000	7,937	890
3-Nitroaniline	µg/kg	dw										21	190	100,000	7,937	890
4-Nitroaniline	µg/kg	dw										21	190	100,000	7,937	890
2,6-Dinitrotoluene	µg/kg	dw										21	75	42,000	3,249	360
2,4-Dinitrotoluene	µg/kg	dw										21	75	42,000	3,249	360
N-Nitrosodiphenylamine(1)	µg/kg	dw										21	75	42,000	3,249	360
4-Chloroaniline	µg/kg	dw										21	75	42,000	3,249	360
3,3-Dichlorobenzidine	µg/kg	dw										21	75	42,000	3,249	360
Pesticides/Polychlorinated Biphenyls																
alpha-BHC	µg/kg	dw										21	2.4	15	5.1	3.7
beta-BHC	µg/kg	dw										21	2.4	15	5.1	3.7
delta-BHC	µg/kg	dw										21	2.4	15	5.1	3.7
gamma-BHC (Lindane)	µg/kg	dw										21	2.4	15	5.1	3.7
Aldrin	µg/kg	dw										21	2.4	15	5.1	3.7
alpha-Chlordane	µg/kg	dw	1	5.5	5.5	5.5	5.5					20	2.4	15	5.1	3.6
gamma-Chlordane	µg/kg	dw										21	2.4	15	5.1	3.7
Dieldrin	µg/kg	dw										21	4.6	30	9.9	7.2
Endosulfan I	µg/kg	dw										21	2.4	15	5.1	3.7
Endosulfan II	µg/kg	dw										21	4.6	30	9.9	7.2
Endosulfan sulfate	µg/kg	dw										21	4.6	30	9.9	7.2
Endrin	µg/kg	dw										21	4.6	30	9.9	7.2
Endrin aldehyde	µg/kg	dw										21	4.6	30	9.9	7.2
Endrin ketone	µg/kg	dw										21	4.6	30	9.9	7.2
Heptachlor	µg/kg	dw										21	2.4	15	5.1	3.7
Heptachlor epoxide	µg/kg	dw										21	2.4	15	5.1	3.7
Methoxychlor	µg/kg	dw										21	24	150	51.0	37.0
4,4'-DDD	µg/kg	dw	5	7.4	47	20.1	14	15.7	7.03	1.80	3.41	16	4.6	30	10.4	6.7
4,4'-DDE	µg/kg	dw										21	4.6	30	9.9	7.2
4,4'-DDT	µg/kg	dw										21	4.6	30	9.9	7.2
Toxaphene	µg/kg	dw										21	240	1,500	510	370
Aroclor-1016	µg/kg	dw	2	90	180	135	135	63.6	45.0			118	42	340	84.3	70.5
Aroclor-1221	µg/kg	dw										120	42	610	103	73.5
Aroclor-1232	µg/kg	dw										120	42	340	84.7	71.0
Aroclor-1242	µg/kg	dw										120	42	340	84.7	71.0
Aroclor-1248	µg/kg	dw	62	31	1,100	173	79.5	212	27.0	2.40	6.20	58	42	300	82.1	66.0
Aroclor-1254	µg/kg	dw	3	65	100	80.7	77	17.8	10.3	0.89		117	42	340	83.9	71.0
Aroclor-1260	µg/kg	dw	27	37	1,000	218	77	264	50.8	1.96	3.15	93	42	300	81.3	69.0
Polychlorinated biphenyls	µg/kg	dw	67	31	2,100	255.6	97	387	47.3	2.87	9.27	53	42	300	79.3	64.0

Table G1-14. Summary Statistics for Lake Sediment Profiles Collected by Honeywell/PTI in 1992 (0 to 30 cm depth)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Acid-volatile sulfide	mg/kg	dw	75	20.0	8,000	3,140	3,000	2,055	237	0.12	-0.87	5	20	20	20	20
Calcium carbonate	%	dw	80	23.2	90.8	56.5	53.1	14.6	1.64	0.58	-0.12					
Chloride-Calculated	mg/kg	ww	80	537.0	11056.0	1802.7	1360.0	1801.4	201	3.56	13.8					
Chloride-Measured	mg/kg	dw	80	400	23,000	4,191	3,750	3,884	434	2.57	9.19					
Total organic carbon	%	dw	80	0.10	4.70	2.80	3.10	1.24	0.14	-0.70	-0.68					
Percent moisture	%	ww	80	24.3	79.6	66.4	72.0	12.5	1.40	-1.08	0.38					
Total solids	%	ww	80	20.4	75.7	33.4	27.9	12.6	1.41	1.09	0.38					
Percent clay	%	ww	80	0.70	6.40	3.36	3.35	1.27	0.14	0.11	-0.45					
Percent silt	%	ww	80	3.70	43.3	21.7	20.6	7.38	0.83	0.51	1.45					
Percent sand	%	ww	80	0.20	72.4	8.54	0.95	15.2	1.70	2.20	4.46					
Total Metals and Cyanide																
Aluminum	mg/kg	dw	21	427	8,720	3,037	1,730	2,575	562	0.83	-0.63					
Antimony	mg/kg	dw	18	2.30	14.3	7.32	7.15	3.12	0.73	0.58	0.67	4	2.5	8.6	5.38	5.20
Arsenic	mg/kg	dw	21	0.32	8.00	4.04	5.20	2.68	0.58	-0.20	-1.67					
Barium	mg/kg	dw	21	38.5	708	177	132	163	35.6	2.54	6.33					
Beryllium	mg/kg	dw	5	0.27	0.56	0.42	0.38	0.12	0.06	0.10	-2.17	17	0.19	0.86	0.37	0.31
Cadmium	mg/kg	dw	65	1.20	22.8	10.8	10.5	4.89	0.61	0.23	-0.06	15	0.37	9.8	1.40	0.63
Calcium	mg/kg	dw	80	98,600	339,000	222,000	217,500	51,107	5,714	0.38	-0.01					
Chromium	mg/kg	dw	80	3.00	1,190	186	182	173	19.3	3.14	15.8					
Cobalt	mg/kg	dw	18	0.79	9.90	4.51	3.30	3.19	0.75	0.40	-1.60	3	0.52	0.69	0.61	0.63
Copper	mg/kg	dw	80	1.90	226	103	116	54.7	6.12	-0.41	-0.55					
Iron	mg/kg	dw	21	1,520	20,500	7,321	4,700	6,016	1,313	1.00	-0.47					
Lead	mg/kg	dw	80	0.83	1,170	151	148	139	15.6	5.07	36.3					
Magnesium	mg/kg	dw	80	1,640	28,800	7,115	6,510	3,732	417	2.88	13.9					
Manganese	mg/kg	dw	21	104	430	231	223	84.9	18.5	0.79	0.10					
Mercury	mg/kg	dw	72	0.18	74.0	11.1	6.70	12.8	1.51	2.48	8.17	8	0.11	0.5	0.29	0.27
Nickel	mg/kg	dw	79	2.70	219	53.4	56.2	34.1	3.83	1.48	6.35	1	2.4	2.4	2.40	2.40
Potassium	mg/kg	dw	20	89.7	1,200	384	248	349	78.1	1.55	1.38	1	121	121	121	121
Selenium	mg/kg	dw	11	0.38	1.20	0.65	0.61	0.26	0.08	1.13	0.64	11	0.16	0.87	0.41	0.30
Silver	mg/kg	dw	18	0.50	8.20	2.97	3.10	2.23	0.52	0.74	0.06	3	0.37	1.1	0.72	0.69
Sodium	mg/kg	dw	18	612	5,970	2,387	2,300	1,671	394	0.82	-0.21	3	782	1,120	997	1,090
Thallium	mg/kg	dw	7	0.38	0.94	0.58	0.52	0.20	0.08	0.90	0.08	14	0.16	0.63	0.34	0.33
Vanadium	mg/kg	dw	14	1.00	19.2	8.38	6.45	6.06	1.62	0.53	-0.96	7	0.99	1.7	1.23	1.20
Zinc	mg/kg	dw	78	6.80	453	268	323	134	15.1	-0.76	-0.81	2	8.4	40.6	24.5	24.5
Volatile Organic Compounds																
Benzene	µg/kg	dw	65	3.00	12,000	959	21.0	2,515	312	2.98	8.44	15	9	2,000	381	17.0
Toluene	µg/kg	dw	49	3.00	14,000	1,440	16.0	3,479	497	2.48	5.14	31	11	2,000	194	22.0
Ethylbenzene	µg/kg	dw	10	25.0	9,100	3,465	4,250	3,253	1,029	0.22	-1.13	70	9	9,900	341	20.0
Styrene	µg/kg	dw										22	11	29,000	3,140	55.0
Xylene (Total)	µg/kg	dw	53	13.0	110,000	7,964	36.0	21,514	2,955	3.17	10.7	27	9	2,000	283	20.0
Chlorobenzene	µg/kg	dw	67	4.00	360,000	19,026	94.0	65,671	8,023	3.99	16.1	14	9	190	35.2	16.5
1,2-Dichlorobenzene	µg/kg	dw	51	3.00	24,000	1,630	22.0	4,717	660	3.40	11.8	29	9	4,600	926	86.0
1,3-Dichlorobenzene	µg/kg	dw	41	7.00	39,000	1,185	27.0	6,124	956	6.19	39.0	40	9	8,300	1,476	106
1,4-Dichlorobenzene	µg/kg	dw	62	3.00	250,000	8,436	75.0	34,010	4,319	6.26	43.3	18	9	3,100	829	88.5
Dichlorobenzene, non-specific	µg/kg	dw	63	10.0	301,000	10,393	129	41,171	5,187	6.10	41.5	17	9	3,100	873	86.0
1,2,3-Trichlorobenzene	µg/kg	dw	6	4.00	11,000	2,740	462	4,406	1,799	1.76	2.75	53	9	5,400	290	20.0

Table G1-14. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
1,2,4-Trichlorobenzene	µg/kg	dw	41	3.00	5,700	490	26.0	1,312	205	2.82	7.22	40	9	9,900	1,164	85.5
1,3,5-Trichlorobenzene	µg/kg	dw	9	3.00	24,000	4,526	14.0	7,949	2,650	2.23	5.24	50	9	3,600	192	20.0
Trichlorobenzene	µg/kg	dw	42	7.00	35,000	1,473	26.0	5,887	908	5.04	27.2	17	9	3,600	439	20.0
Chloromethane	µg/kg	dw										22	11	29,000	3,140	55.0
Bromomethane	µg/kg	dw										22	11	29,000	3,140	55.0
Chloroethane	µg/kg	dw										22	11	29,000	3,140	55.0
Methylene chloride	µg/kg	dw										22	11	29,000	3,140	55.0
1,1-Dichloroethane	µg/kg	dw										22	11	29,000	3,140	55.0
Chloroform	µg/kg	dw										22	11	29,000	3,140	55.0
1,2-Dichloroethane	µg/kg	dw										22	11	29,000	3,140	55.0
1,1,1-Trichloroethane	µg/kg	dw										22	11	29,000	3,140	55.0
Carbon tetrachloride	µg/kg	dw										22	11	29,000	3,140	55.0
Bromodichloromethane	µg/kg	dw										22	11	29,000	3,140	55.0
1,2-Dichloropropane	µg/kg	dw										22	11	29,000	3,140	55.0
Dibromochloromethane	µg/kg	dw										22	11	29,000	3,140	55.0
1,1,2-Trichloroethane	µg/kg	dw										22	11	29,000	3,140	55.0
Bromoform	µg/kg	dw										22	11	29,000	3,140	55.0
1,1,2,2-Tetrachloroethane	µg/kg	dw										22	11	29,000	3,140	55.0
Vinyl chloride	µg/kg	dw										22	11	29,000	3,140	55.0
1,1-Dichloroethene	µg/kg	dw										22	11	29,000	3,140	55.0
1,2-Dichloroethene (Total)	µg/kg	dw										22	11	29,000	3,140	55.0
cis-1,3-Dichloropropene	µg/kg	dw										22	11	29,000	3,140	55.0
trans-1,3-Dichloropropene	µg/kg	dw										22	11	29,000	3,140	55.0
Trichloroethene	µg/kg	dw										22	11	29,000	3,140	55.0
Tetrachloroethene	µg/kg	dw										22	11	29,000	3,140	55.0
Acetone	µg/kg	dw	14	41.0	1,600	381	160	441	118	1.82	3.61	8	15	29,000	8,558	5,600
2-Butanone	µg/kg	dw	10	45.0	590	272	250	167	52.9	0.41	0.12	12	11	29,000	5,692	19.5
2-Hexanone	µg/kg	dw										22	11	29,000	3,140	55.0
4-Methyl-2-pentanone	µg/kg	dw										22	11	29,000	3,140	55.0
Carbon disulfide	µg/kg	dw	2	14.0	28.0	21.0	21.0	0	0			20	11	29,000	3,450	60.5
Semivolatile Organic Compounds																
1,2,3,4-Tetrachlorobenzene	µg/kg	dw	15	2.50	30,000	2,104	5.40	7,723	1,994	3.86	14.9	32	3.3	37	8.70	6.90
Tetrachlorobenzene (mixed)	µg/kg	dw	11	7.40	22,000	2,682	16.0	6,700	2,020	2.89	8.56	36	3.7	20	9.00	7.00
Pentachloro benzene	µg/kg	dw	14	2.00	7,100	589	7.15	1,887	504	3.66	13.5	33	4.1	14	7.36	6.70
Hexachlorobenzene	µg/kg	dw	25	2.40	20,000	1,059	11.0	3,983	797	4.86	24.0	45	2.9	8,300	910	13.0
2-Chloronaphthalene	µg/kg	dw										22	74	8,300	2,113	1,400
Naphthalene	µg/kg	dw	18	35.0	150,000	19,530	2,500	36,710	8,653	2.96	9.91	13	74	6,400	1,443	370
Acenaphthylene	µg/kg	dw	10	560	6,200	3,134	3,000	2,175	688	0.24	-1.67	21	74	34,000	4,151	1,900
Acenaphthene	µg/kg	dw	16	29.0	8,000	2,344	1,550	1,959	490	1.69	3.73	15	74	17,000	3,092	370
Fluorene	µg/kg	dw	15	23.0	18,000	4,796	1,600	6,128	1,582	1.29	0.22	16	77	8,300	1,692	310
Phenanthrene	µg/kg	dw	25	40.0	25,000	3,550	1,600	5,542	1,108	2.86	9.39	6	77	5,900	1,353	231
Anthracene	µg/kg	dw	16	25.0	9,400	2,070	715.00	2,982	745	1.73	1.86	15	61	8,300	2,479	1,600
2-Methylnaphthalene	µg/kg	dw	10	390	9,900	4,079	3700	2,755	871	0.88	1.26	11	74	1,900	415	86.0
PAH-Low MW	µg/kg	dw	31	418	232,700	27,060	11,060	45,242	8,126	3.44	14.4					
Fluoranthene	µg/kg	dw	25	23.0	47,000	7,795	2,600	12,494	2,499	2.04	3.53	6	79	5,900	1,963	555
Pyrene	µg/kg	dw	25	25.0	49,000	4,293	890	10,094	2,019	4.01	17.4	6	79	6,100	3,078	3,150
Benz(a)anthracene	g/kg	dw	21	17.0	31,000	2,884	490	7,029	1,534	3.66	14.1	10	79	8,300	2,876	1,650
Chrysene	µg/kg	dw	23	21.0	34,000	3,273	950	7,172	1,496	3.92	16.7	8	79	8,300	3,349	3,100
Benzo(b)fluoranthene	µg/kg	dw	21	31.0	46,000	4,140	1,200	10,071	2,198	3.97	16.7	10	79	6,100	3,027	2,650
Benzo(k)fluoranthene	µg/kg	dw	10	33.0	1,200	457	430	369	117	0.77	0.34	22	74	8,300	2,211	1,650

Table G1-14. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Total benzofluoranthenes (b + k)	µg/kg	dw	1	10,200	10,200	10,200	10,200					2	11,800	12,200	12,000	12,000
Benzo(a)pyrene	µg/kg	dw	20	19.0	31,000	2,764	645	7,064	1,579	3.80	15.1	11	79	8,300	2,787	1,700
Indeno(1,2,3-cd)pyrene	µg/kg	dw	14	18.0	14,000	1,776	565	3,710	992	3.18	10.6	17	61	8,300	2,257	680
Dibenz(a,h)anthracene	µg/kg	dw	10	19.0	1,000	325	280	326	103	1.00	0.49	22	77	8,300	2,371	1,750
Benzo(g,h,i)perylene	µg/kg	dw	19	45.0	16,000	2,170	960	3,600	826	3.47	13.4	12	77	8,300	2,688	1,750
PAH-High MW	µg/kg	dw	31	336	213,100	26,951	13,070	41,680	7,486	3.23	13.1					
Phenol	µg/kg	dw	1	87.0	87.0	87.0	87.0					21	74	8,300	2,208	1,600
2-Methylphenol	µg/kg	dw	1	30.0	30.0	30.0	30.0					21	74	8,300	2,208	1,600
4-Methylphenol	µg/kg	dw	1	250	250	250	250					20	74	8,300	2,287	1,750
2,4-Dimethylphenol	µg/kg	dw										21	74	8,300	2,208	1,600
2-Chlorophenol	µg/kg	dw										21	74	8,300	2,208	1,600
2,4-Dichlorophenol	µg/kg	dw										21	74	8,300	2,208	1,600
4-Chloro-3-methylphenol	µg/kg	dw										21	74	8,300	2,208	1,600
2,4,6-Trichlorophenol	µg/kg	dw										21	74	8,300	2,208	1,600
2,4,5-Trichlorophenol	µg/kg	dw										21	190	21,000	5,503	4,100
Pentachlorophenol	µg/kg	dw										21	190	21,000	5,503	4,100
2-Nitrophenol	µg/kg	dw										21	74	8,300	2,208	1,600
4-Nitrophenol	µg/kg	dw										21	190	21,000	5,503	4,100
2,4-Dinitrophenol	µg/kg	dw										21	190	21,000	5,503	4,100
2-Methyl-4,6-dinitrophenol	µg/kg	dw										21	190	21,000	5,503	4,100
Hexachloroethane	µg/kg	dw										22	74	8,300	2,113	1,400
Hexachlorobutadiene	µg/kg	dw										22	74	8,300	2,113	1,400
Hexachlorocyclopentadiene	µg/kg	dw										22	74	8,300	2,113	1,400
Bis(2-chloroethyl)ether	µg/kg	dw										22	74	8,300	2,113	1,400
4-Chlorophenyl-phenyl ether	µg/kg	dw										22	74	8,300	2,113	1,400
4-Bromophenyl-phenyl ether	µg/kg	dw										22	74	8,300	2,113	1,400
Bis(2-chloroethoxy)methane	µg/kg	dw										22	74	8,300	2,113	1,400
2,2'-Oxybis(1-chloropropane)	µg/kg	dw										22	74	8,300	2,113	1,400
Dimethylphthalate	µg/kg	dw										22	74	8,300	2,113	1,400
Diethylphthalate	µg/kg	dw										22	74	8,300	2,113	1,400
Di-n-butylphthalate	µg/kg	dw										22	74	8,300	2,113	1,400
Butylbenzylphthalate	µg/kg	dw										22	74	8,300	2,113	1,400
Bis(2-ethylhexyl)phthalate	µg/kg	dw	10	23.0	4,400	1,932	2,250	1,500	474	-0.08	-0.91	11	77	6,100	2,459	1,200
Di-n-octylphthalate	µg/kg	dw										22	74	8,300	2,113	1,400
Isophorone	µg/kg	dw										22	74	8,300	2,113	1,400
Dibenzofuran	µg/kg	dw	3	18.0	3,500	1,739	1,700	1,741	1,005	0.10		18	74	8,300	2,160	1,750
Carbazole	µg/kg	dw	3	33.0	3,900	1,408	290	2,162	1,248	1.70		18	74	8,300	2,305	1,750
Nitrobenzene	µg/kg	dw										22	74	8,300	2,113	1,400
N-nitroso-di-*n*-propylamine	µg/kg	dw										22	74	8,300	2,113	1,400
2-Nitroaniline	µg/kg	dw										22	190	21,000	5,267	3,500
3-Nitroaniline	µg/kg	dw										22	190	21,000	5,267	3,500
4-Nitroaniline	µg/kg	dw										22	190	21,000	5,267	3,500
2,6-Dinitrotoluene	µg/kg	dw										22	74	8,300	2,113	1,400
2,4-Dinitrotoluene	µg/kg	dw										22	74	8,300	2,113	1,400
N-Nitrosodiphenylamine(1)	µg/kg	dw										22	74	8,300	2,113	1,400
4-Chloroaniline	µg/kg	dw										22	74	8,300	2,113	1,400
3,3-Dichlorobenzidine	µg/kg	dw										22	74	8,300	2,113	1,400
Pesticides/Polychlorinated Biphenyls																
alpha-BHC	µg/kg	dw										22	2.2	7.3	4.03	3.50
beta-BHC	µg/kg	dw	3	31.0	110	60.0	39.0	43.5	25.1	1.67		19	2.2	7.3	3.86	3.30

Table G1-14. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
delta-BHC	µg/kg	dw										22	2.2	7.3	4.03	3.50
gamma-BHC (Lindane)	µg/kg	dw										22	2.2	7.3	4.03	3.50
Aldrin	µg/kg	dw										22	2.2	7.3	4.03	3.50
alpha-Chlordane	µg/kg	dw										22	2.2	7.3	4.03	3.50
gamma-Chlordane	µg/kg	dw										22	2.2	7.3	4.03	3.50
Dieldrin	µg/kg	dw										22	4.3	14	7.84	6.70
Endosulfan I	µg/kg	dw										22	2.2	7.3	4.03	3.50
Endosulfan II	µg/kg	dw										22	4.3	14	7.84	6.70
Endosulfan sulfate	µg/kg	dw	3	11.0	18.0	15.7	18.0	4.04	2.33	-1.73		19	4.3	14	7.94	6.70
Endrin	µg/kg	dw										22	4.3	14	7.84	6.70
Endrin aldehyde	µg/kg	dw										22	4.3	14	7.84	6.70
Endrin ketone	µg/kg	dw										22	4.3	14	7.84	6.70
Heptachlor	µg/kg	dw	1	6.10	6.10	6.10	6.10					21	2.2	7.3	4.06	3.50
Heptachlor epoxide	µg/kg	dw										22	2.2	7.3	4.03	3.50
Methoxychlor	µg/kg	dw										22	22	73	40.32	35.0
4,4'-DDD	µg/kg	dw										22	4.3	14	7.84	6.70
4,4'-DDE	µg/kg	dw	7	7.80	16.0	12.3	12.0	2.56	0.97	-0.45	1.20	15	4.3	14	7.95	6.20
4,4'-DDT	µg/kg	dw										22	4.3	14	7.84	6.70
Toxaphene	µg/kg	dw										22	220	730	403	350
Aroclor-1016	µg/kg	dw										81	29	510	104	73.0
Aroclor-1221	µg/kg	dw										81	29	510	127	110
Aroclor-1232	µg/kg	dw										81	29	510	104	73.0
Aroclor-1242	µg/kg	dw	3	720	830	757	720	63.5	36.7	1.73		78	29	510	106	73.0
Aroclor-1248	µg/kg	dw	64	51.0	4,200	680	495	729	91.1	3.54	15.0	16	29	91	61.0	61.0
Aroclor-1254	µg/kg	dw	3	270	510	350	270	139	80.0	1.73		77	29	510	104	72.0
Aroclor-1260	µg/kg	dw	59	68.0	1,800	373	310	327	42.6	2.52	7.59	22	29	220	74.8	59.5
Polychlorinated biphenyls	µg/kg	dw	67	51.0	6,000	1,028	830	998	122	3.45	14.7	13	29	91	58.5	59.0

Table G1-15. Summary Statistics for Lake Sediment Profiles collected by Honeywell/PTI in 1992 (30 to 60 cm depth)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Acid-volatile sulfide																
Calcium carbonate	%	dw	73	19.8	89.9	52.4	49.1	19.2	2.25	0.51	-0.67					
Chloride-Calculated	mg/kg	ww	73	716	35,215	4,752	3,317	5,571	652	3.59	15.0					
Chloride-Measured	mg/kg	dw	73	680	61,000	9,423	8,200	10,384	1,215	3.05	12.2					
Total organic carbon	%	dw	73	0.24	5.50	3.00	3.30	1.43	0.17	-0.39	-0.73					
Percent moisture	%	ww	73	31.7	78.3	63.8	67.9	10.6	1.25	-0.89	-0.05					
Total solids	%	ww	73	22.3	68.3	36.3	32.5	10.6	1.24	0.89	-0.04					
Percent clay	%	ww	73	1.00	9.20	4.32	4.40	1.76	0.21	0.30	0.18					
Percent silt	%	ww	73	4.40	49.3	24.6	23.4	7.77	0.91	0.51	1.51					
Percent sand	%	ww	73	0.20	52.8	6.39	1.20	12.1	1.41	2.48	5.37					
Total Metals and Cyanide																
Aluminum	mg/kg	dw	14	414	11,200	3,000	1,128	3,172	848	1.47	2.07					
Antimony	mg/kg	dw	13	3.70	15.4	7.21	6.50	3.85	1.07	1.31	0.88	2	2.3	5.7	4.00	4.00
Arsenic	mg/kg	dw	13	0.37	9.90	3.96	4.30	3.61	1.00	0.32	-1.59	1	0.33	0.33	0.33	0.33
Barium	mg/kg	dw	14	57.9	707	169	101	168	45.0	2.86	9.04					
Beryllium	mg/kg	dw	2	0.53	0.57	0.55	0.55	0.00	0.00			15	0.23	0.57	0.34	0.30
Cadmium	mg/kg	dw	63	0.56	53.6	21.5	21.8	14.0	1.76	0.31	-0.75	11	0.46	1.7	0.82	0.67
Calcium	mg/kg	dw	73	66,600	370,000	212,000	212,000	71,100	8,322	0.15	-0.66					
Chromium	mg/kg	dw	72	2.20	1,710	341	306	319	37.6	1.85	5.79	1	1.7	1.7	1.70	1.70
Cobalt	mg/kg	dw	11	0.53	10.4	3.85	2.30	3.52	1.06	0.89	-0.69	3	0.48	0.59	0.53	0.52
Copper	mg/kg	dw	71	0.69	370	176	187	110	13.1	-0.02	-1.07	2	0.52	3.1	1.81	1.81
Iron	mg/kg	dw	14	1,890	26,700	7,277	2,870	7,838	2,095	1.49	1.45					
Lead	mg/kg	dw	73	0.65	749	201	192	146	17.1	0.85	1.62					
Magnesium	mg/kg	dw	73	1,860	23,400	6,904	5,510	3,840	449	1.69	3.86					
Manganese	mg/kg	dw	14	78.0	422	215	218	108	29.0	0.48	-0.59					
Mercury	mg/kg	dw	63	0.80	76.0	20.0	19.5	15.3	1.93	0.85	1.26	11	0.09	0.39	0.22	0.22
Nickel	mg/kg	dw	70	1.90	232	85.3	80.6	53.7	6.42	0.21	-0.68	3	1.7	2.4	2.00	1.90
Potassium	mg/kg	dw	14	70.8	1,010	345	210	269	71.8	1.30	1.37					
Selenium	mg/kg	dw	7	0.23	1.50	0.67	0.43	0.48	0.18	1.22	-0.12	10	0.18	1.8	0.47	0.32
Silver	mg/kg	dw	9	0.67	13.6	3.52	2.20	4.20	1.40	2.07	4.56	7	0.46	0.97	0.64	0.59
Sodium	mg/kg	dw	14	756	15,300	4,850	2,390	4,744	1,268	1.33	0.83					
Thallium	mg/kg	dw	3	0.51	0.92	0.74	0.78	0.21	0.12	-0.90		12	0.18	0.52	0.31	0.29
Vanadium	mg/kg	dw	6	3.50	23.3	12.7	13.4	7.51	3.07	0.06	-1.00	8	0.93	1.3	1.10	1.10
Zinc	mg/kg	dw	71	4.90	705	335	370	204	24.3	-0.10	-1.06	2	7.2	14.4	10.8	10.8
Volatile Organic Compounds																
Benzene	µg/kg	dw	52	4.00	17,000	1,058	33.0	2,731	379	4.43	23.3	20	10	24,000	1,518	18.0
Toluene	µg/kg	dw	41	3.00	32,000	2,156	45.0	5,493	858	4.40	22.5	31	9	2,200	221	17.0
Ethylbenzene	µg/kg	dw	11	60.0	6,400	2,385	2,200	2,269	684	0.45	-1.16	61	9	24,000	1,077	18.0
Styrene	µg/kg	dw	1	1,700	1,700	1,700	1,700					15	11	3,200	464	24.0
Xylene (Total)	µg/kg	dw	47	7.00	120,000	9,569	87.0	23,332	3,403	3.11	10.9	25	9	3,100	586	17.0
Chlorobenzene	µg/kg	dw	52	3.00	160,000	11,445	105	35,993	4,991	3.74	12.9	21	10	5,300	532	17.0
1,2-Dichlorobenzene	µg/kg	dw	40	6.00	270,000	13,958	51.0	47,621	7,530	4.54	22.6	33	9	5,300	758	77.0

Table G1-15. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
1,3-Dichlorobenzene	µg/kg	dw	23	6.00	41,000	3,556	50.0	9,454	1,971	3.42	12.1	52	9	18,000	1,208	75.5
1,4-Dichlorobenzene	µg/kg	dw	48	4.00	760,000	34,386	99.0	132,000	19,022	4.71	22.8	25	9	5,300	660	74.0
Dichlorobenzene, non-specific	µg/kg	dw	50	4.00	1,052,000	45,813	187	177,000	25,039	4.82	24.3	23	9	5,300	717	77.0
1,2,3-Trichlorobenzene	µg/kg	dw	7	6.00	67,000	16,659	2,600	24,682	9,329	1.79	3.00	51	9	6,100	599	17.0
1,2,4-Trichlorobenzene	µg/kg	dw	33	6.00	9,600	564	36.0	1,724	300	4.83	25.2	41	9	24,000	1,870	85.0
1,3,5-Trichlorobenzene	µg/kg	dw	15	5.00	160,000	22,721	460	45,955	11,865	2.33	5.41	43	9	5,300	533	17.0
Trichlorobenzene	µg/kg	dw	38	6.00	190,000	12,275	38.5	39,843	6,463	3.65	13.1	20	9	5,300	746	17.0
Chloromethane	µg/kg	dw										17	11	10,000	1,310	45.0
Bromomethane	µg/kg	dw										17	11	10,000	1,310	45.0
Chloroethane	µg/kg	dw										17	11	10,000	1,310	45.0
Methylene chloride	µg/kg	dw										17	11	10,000	1,311	45.0
1,1-Dichloroethane	µg/kg	dw										17	11	10,000	1,310	45.0
Chloroform	µg/kg	dw										17	11	10,000	1,310	45.0
1,2-Dichloroethane	µg/kg	dw										17	11	10,000	1,310	45.0
1,1,1-Trichloroethane	µg/kg	dw										17	11	10,000	1,310	45.0
Carbon tetrachloride	µg/kg	dw										17	11	10,000	1,310	45.0
Bromodichloromethane	µg/kg	dw										17	11	10,000	1,310	45.0
1,2-Dichloropropane	µg/kg	dw										17	11	10,000	1,310	45.0
Dibromochloromethane	µg/kg	dw										17	11	10,000	1,310	45.0
1,1,2-Trichloroethane	µg/kg	dw										17	11	10,000	1,310	45.0
Bromoform	µg/kg	dw										17	11	10,000	1,310	45.0
1,1,2,2-Tetrachloroethane	µg/kg	dw										17	11	10,000	1,310	45.0
Vinyl chloride	µg/kg	dw										17	11	10,000	1,310	45.0
1,1-Dichloroethene	µg/kg	dw	1	19.0	19.0	19.0	19.0					16	11	10,000	1,390	64.0
1,2-Dichloroethene (Total)	µg/kg	dw										17	11	10,000	1,310	45.0
cis-1,3-Dichloropropene	µg/kg	dw										17	11	10,000	1,310	45.0
trans-1,3-Dichloropropene	µg/kg	dw										17	11	10,000	1,310	45.0
Trichloroethene	µg/kg	dw	1	12.0	12.0	12.0	12.0					16	11	10,000	1,390	64.0
Tetrachloroethene	µg/kg	dw										17	11	10,000	1,310	45.0
Acetone	µg/kg	dw	8	62.0	1,700	506	190	616	218	1.42	0.79	8	17	10,000	2,725	1,620
2-Butanone	µg/kg	dw	9	57.0	820	326	210	277	92.3	0.85	-0.65	8	11	10,000	2,709	1,562
2-Hexanone	µg/kg	dw										17	11	10,000	1,310	45.0
4-Methyl-2-pentanone	µg/kg	dw										17	11	10,000	1,310	45.0
Carbon disulfide	µg/kg	dw	1	14.0	14.0	14.0	14.0					16	11	10,000	1,390	64.0
Semivolatile Organic Compounds																
1,2,3,4-Tetrachlorobenzene	µg/kg	dw	20	2.10	7,600	912	4.90	2,246	502	2.66	6.07	27	3.1	39	9.32	6.20
Tetrachlorobenzene (mixed)	µg/kg	dw	17	2.40	29,000	3,032	82.0	7,543	1,829	3.05	9.57	30	3.1	73	10.9	8.05
Pentachloro benzene	µg/kg	dw	17	2.50	3,500	470	14.0	1,064	258	2.52	5.26	30	3.1	39	7.53	6.00
Hexachlorobenzene	µg/kg	dw	38	1.80	7,700	441	9.95	1,555	252	4.19	17.0	27	3.4	18,000	1,423	77.0
2-Chloronaphthalene	µg/kg	dw										17	65	18,000	2,260	120
Naphthalene	µg/kg	dw	10	120	740,000	137,000	18,300	252,000	79,827	2.04	3.39	15	65	12,000	2,869	86.0
Acenaphthylene	µg/kg	dw	7	100	190,000	42,304	6,900	72,185	27,283	1.87	3.04	19	65	64,000	8,108	2,500
Acenaphthene	µg/kg	dw	8	1,500	6,800	3,800	3,600	1,754	620	0.46	-0.47	19	65	160,000	16,543	270
Fluorene	µg/kg	dw	14	31.0	58,000	7,606	1,300	15,861	4,239	2.87	8.74	11	65	33,000	3,970	85.0
Phenanthrene	µg/kg	dw	18	45.0	38,000	7,277	2,300	11,355	2,676	2.09	3.56	7	65	86	79.3	83.0
Anthracene	µg/kg	dw	14	26.0	20,000	4,996	1,050	7,163	1,915	1.31	0.06	13	65	18,000	2,487	85.0
2-Methylnaphthalene	µg/kg	dw	4	86.0	7,400	5,022	6,300	3,335	1,667	-1.84	3.52	10	65	3,400	416	84.0
PAH-Low MW	µg/kg	dw	25	390	978,000	101,000	16,600	241,000	48,241	2.86	7.74					
Fluoranthene	µg/kg	dw	19	20.0	240,000	34,220	3,000	70,059	16,073	2.35	4.72	6	65	730	187	84.0

Table G1-15. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Pyrene	µg/kg	dw	19	20.0	28,000	4,124	2,900	6,206	1,424	3.46	13.5	6	65	6,600	1,166	84.0
Benz(a)anthracene	.g/kg	dw	13	380	11,000	2,703	1,900	2,820	782	2.49	6.70	14	65	18,000	2,461	85.5
Chrysene	µg/kg	dw	17	27.0	17,000	3,586	2,500	4,478	1,086	2.25	4.95	10	65	18,000	2,766	85.0
Benzo(b)fluoranthene	µg/kg	dw	16	18.0	17,000	2,497	1,500	4,173	1,043	3.16	10.9	11	65	18,000	4,138	730
Benzo(k)fluoranthene	µg/kg	dw	8	300	1,800	851	660	540	191	1.26	0.09	20	65	18,000	3,281	1,035
Total benzofluoranthenes (b + k)	µg/kg	dw										1	13,200	13,200	13,200	13,200
Benzo(a)pyrene	µg/kg	dw	14	43.0	8,900	1,792	1,150	2,263	605	2.77	8.30	13	65	18,000	2,537	86.0
Indeno(1,2,3-cd)pyrene	µg/kg	dw	10	20.0	6,200	1,184	740	1,807	571	2.88	8.70	17	65	18,000	3,706	620
Dibenz(a,h)anthracene	µg/kg	dw	8	130	2,000	726	550	583	206	1.77	3.42	20	65	33,000	5,048	1,800
Benzo(g,h,i)perylene	µg/kg	dw	14	24.0	6,400	2,322	2,500	1,859	497	0.73	0.14	13	65	33,000	5,906	86.0
PAH-High MW	µg/kg	dw	25	488	386,900	45,268	15,820	91,587	18,317	2.95	8.78					
Phenol	µg/kg	dw	2	160	230	195	195	0.00	0.00			14	65	18,000	2,552	178
2-Methylphenol	µg/kg	dw	1	160	160	160	160					16	65	18,000	2,394	178
4-Methylphenol	µg/kg	dw	3	380	1,600	950	870	614	354	0.58		14	65	18,000	2,259	178
2,4-Dimethylphenol	µg/kg	dw	1	77.0	77.0	77.0	77.0					16	65	18,000	2,394	178
2-Chlorophenol	µg/kg	dw										16	65	18,000	2,394	178
2,4-Dichlorophenol	µg/kg	dw										16	65	18,000	2,394	178
4-Chloro-3-methylphenol	µg/kg	dw										16	65	18,000	2,394	178
2,4,6-Trichlorophenol	µg/kg	dw										16	65	18,000	2,394	178
2,4,5-Trichlorophenol	µg/kg	dw										16	160	45,000	5,947	445
Pentachlorophenol	µg/kg	dw										16	160	45,000	5,947	445
2-Nitrophenol	µg/kg	dw										16	65	18,000	2,394	178
4-Nitrophenol	µg/kg	dw										16	160	45,000	5,947	445
2,4-Dinitrophenol	µg/kg	dw										16	160	45,000	5,947	445
2-Methyl-4,6-dinitrophenol	µg/kg	dw										16	160	45,000	5,947	445
Hexachloroethane	µg/kg	dw										17	65	18,000	2,260	120
Hexachlorobutadiene	µg/kg	dw										17	65	18,000	2,260	120
Hexachlorocyclopentadiene	µg/kg	dw										17	65	18,000	2,260	120
Bis(2-chloroethyl)ether	µg/kg	dw										17	65	18,000	2,260	120
4-Chlorophenyl-phenyl ether	µg/kg	dw										17	65	18,000	2,260	120
4-Bromophenyl-phenyl ether	µg/kg	dw										17	65	18,000	2,260	120
Bis(2-chloroethoxy)methane	µg/kg	dw										17	65	18,000	2,260	120
2,2'-Oxybis(1-chloropropane)	µg/kg	dw										17	65	18,000	2,260	120
Dimethylphthalate	µg/kg	dw										17	65	18,000	2,260	120
Diethylphthalate	µg/kg	dw										17	65	18,000	2,260	120
Di-n-butylphthalate	µg/kg	dw										17	65	18,000	2,260	120
Butylbenzylphthalate	µg/kg	dw	1	140.0	140.0	140	140					16	65	18,000	2,396	195
Bis(2-ethylhexyl)phthalate	µg/kg	dw	4	36.0	3600.0	1,657	1,497	1,861	931	0.12	-5.30	13	65	18,000	2,529	86.0
Di-n-octylphthalate	µg/kg	dw	1	2,300	2,300	2,300	2,300					16	65	18,000	2,189	103
Isophorone	µg/kg	dw										17	65	18,000	2,260	120
Dibenzofuran	µg/kg	dw	1	590	590	590	590					13	65	6,600	1,063	85.0
Carbazole	µg/kg	dw										16	65	18,000	2,258	103
Nitrobenzene	µg/kg	dw										17	65	18,000	2,260	120
N-nitroso-di-*n*-propylamine	µg/kg	dw										17	65	18,000	2,260	120
2-Nitroaniline	µg/kg	dw										17	160	45,000	5,615	300
3-Nitroaniline	µg/kg	dw										17	160	45,000	5,615	300
4-Nitroaniline	µg/kg	dw										17	160	45,000	5,615	300
2,6-Dinitrotoluene	µg/kg	dw										17	65	18,000	2,260	120
2,4-Dinitrotoluene	µg/kg	dw										17	65	18,000	2,260	120

Table G1-15. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
N-Nitrosodiphenylamine(1)	µg/kg	dw										17	65	18,000	2,260	120
4-Chloroaniline	µg/kg	dw										17	65	18,000	2,260	120
3,3-Dichlorobenzidine	µg/kg	dw										17	65	18,000	2,260	120
Pesticides/Polychlorinated Biphenyls																
alpha-BHC	µg/kg	dw										17	2.1	6.3	3.67	3.30
beta-BHC	µg/kg	dw	1	13.0	13.0	13.0	13.0					15	2.1	6.3	3.73	3.30
delta-BHC	µg/kg	dw										17	2.1	6.3	3.67	3.30
gamma-BHC (Lindane)	µg/kg	dw										17	2.1	6.3	3.67	3.30
Aldrin	µg/kg	dw										17	2.1	6.3	3.67	3.30
alpha-Chlordane	µg/kg	dw										17	2.1	6.3	3.67	3.30
gamma-Chlordane	µg/kg	dw										17	2.1	6.3	3.67	3.30
Dieldrin	µg/kg	dw										17	4.2	12	7.13	6.40
Endosulfan I	µg/kg	dw	1	4.30	4.30	4.30	4.30					16	2.1	6.3	3.71	3.30
Endosulfan II	µg/kg	dw										17	4.2	12	7.13	6.40
Endosulfan sulfate	µg/kg	dw	1	20.0	20.0	20.0	20.0					16	4.2	12	7.17	6.35
Endrin	µg/kg	dw										17	4.2	12	7.13	6.40
Endrin aldehyde	µg/kg	dw										17	4.2	12	7.13	6.40
Endrin ketone	µg/kg	dw										17	4.2	12	7.13	6.40
Heptachlor	µg/kg	dw										17	2.1	6.3	3.67	3.30
Heptachlor epoxide	µg/kg	dw										17	2.1	6.3	3.67	3.30
Methoxychlor	µg/kg	dw										17	21	63	36.7	33.0
4,4'-DDD	µg/kg	dw										17	4.2	12	7.13	6.40
4,4'-DDE	µg/kg	dw	2	16.0	26.0	21.0	21.0	0.00	0.00			14	4.2	11	6.86	6.30
4,4'-DDT	µg/kg	dw										17	4.2	12	7.13	6.40
Toxaphene	µg/kg	dw										17	210	630	367	330
Aroclor-1016	µg/kg	dw										76	27	680	155	70.0
Aroclor-1221	µg/kg	dw										76	27	680	171	120
Aroclor-1232	µg/kg	dw										76	27	680	155	70.0
Aroclor-1242	µg/kg	dw	2	400	890	645	645	0.00	0.00			74	27	680	157	70.0
Aroclor-1248	µg/kg	dw	58	27.0	6,900	1,092	645	1,243	163	2.35	7.60	17	34	100	61.8	62.0
Aroclor-1254	µg/kg	dw	2	130	540	335	335	0.00	0.00			73	27	680	157	65.0
Aroclor-1260	µg/kg	dw	54	39.0	2,900	647	470	562	76.5	1.56	3.48	22	34	120	69.2	63.5
Polychlorinated biphenyls	µg/kg	dw	60	67.0	9,800	1,671	1,075	1,734	224	2.26	7.36	15	34	100	60.6	62.0

Table G1-16. Summary Statistics for Lake Sediment Profiles Collected by Honeywell/PTI in 1992 (60 to 90 cm depth)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Acid-volatile sulfide																
Calcium carbonate	%	dw	73	23.1	90.7	53.8	51.3	18.9	2.21	0.36	-1.03					
Chloride-Calculated	mg/kg	ww	73	576	40,846	7,377	5,975	6,932	811	2.50	8.29					
Chloride-Measured	mg/kg	dw	73	270	80,000	12,088	11,000	12,305	1,440	3.02	13.2					
Total organic carbon	%	dw	73	0.39	4.80	2.39	2.49	1.14	0.13	0.02	-0.47					
Percent moisture	%	ww	73	32.0	74.4	59.9	63.5	8.37	0.98	-1.30	1.38					
Total solids	%	ww	73	29.5	68.1	40.3	36.5	8.23	0.96	1.39	1.47					
Percent clay	%	ww	73	1.00	9.20	4.04	3.70	1.85	0.22	0.50	-0.31					
Percent silt	%	ww	73	3.60	50.6	28.7	29.5	7.90	0.92	-0.10	1.54					
Percent sand	%	ww	73	0.40	60.0	6.84	2.10	12.3	1.44	2.78	7.19					
Total Metals and Cyanide																
Aluminum	mg/kg	dw	16	325	10,700	3,251	1,560	3,321	830	1.15	0.18					
Antimony	mg/kg	dw	15	3.90	18.0	6.94	5.40	3.63	0.94	2.27	6.01	2	2.9	4	3.45	3.45
Arsenic	mg/kg	dw	15	0.39	11.0	3.91	4.10	3.41	0.88	0.62	-0.42	1	0.3	0.3	0.30	0.30
Barium	mg/kg	dw	16	43.9	352	135	101	92.4	23.1	1.62	2.00					
Beryllium	mg/kg	dw	4	0.37	0.47	0.44	0.46	0.05	0.02	-1.81	3.38	13	0.19	0.73	0.34	0.33
Cadmium	mg/kg	dw	58	0.48	55.9	11.3	5.05	14.9	1.96	1.85	2.62	16	0.38	1.5	0.73	0.72
Calcium	mg/kg	dw	73	79,500	374,000	224,000	221,000	71,100	8,327	0.09	-0.91					
Chromium	mg/kg	dw	72	1.80	625	116	50.4	144	17.0	1.78	2.81	1	1.5	1.5	1.50	1.50
Cobalt	mg/kg	dw	12	0.82	8.60	3.59	2.60	2.74	0.79	0.75	-1.07	4	0.46	1.5	0.82	0.66
Copper	mg/kg	dw	71	1.30	389	104	78.4	91.5	10.9	1.29	1.18	2	0.46	4.5	2.48	2.48
Iron	mg/kg	dw	16	1,410	25,400	7,126	2,970	7,857	1,964	1.52	0.94					
Lead	mg/kg	dw	73	0.70	482	124	91.0	114	13.4	1.34	1.48					
Magnesium	mg/kg	dw	73	1,730	31,600	8,070	7,040	5,231	612	2.94	10.5					
Manganese	mg/kg	dw	16	68.0	602	245	213	142	35.5	0.96	1.07					
Mercury	mg/kg	dw	57	0.21	71.0	9.47	2.00	16.1	2.13	2.46	5.96	17	0.1	0.28	0.19	0.19
Nickel	mg/kg	dw	68	2.60	114	40.0	32.0	25.7	3.11	1.01	0.65	5	1.6	5.1	2.76	2.40
Potassium	mg/kg	dw	16	59.2	1,080	400	284	335	83.8	1.24	0.25					
Selenium	mg/kg	dw	7	0.24	0.95	0.52	0.40	0.25	0.09	0.80	-0.17	11	0.24	1.2	0.49	0.40
Silver	mg/kg	dw	8	0.97	6.40	2.72	2.05	1.99	0.70	1.09	0.09	8	0.38	1.5	0.81	0.73
Sodium	mg/kg	dw	16	733	21,900	6,030	3,840	5,832	1,458	1.77	2.80					
Thallium	mg/kg	dw	7	0.32	0.71	0.51	0.52	0.12	0.05	0.05	1.38	10	0.19	0.52	0.34	0.31
Vanadium	mg/kg	dw	7	3.80	18.2	10.7	11.1	6.24	2.36	0.06	-2.13	10	0.75	2.9	1.29	1.20
Zinc	mg/kg	dw	71	4.60	651	218	182	167	19.8	0.95	0.32	2	7.2	15.1	11.2	11.2
Volatile Organic Compounds																
Benzene	µg/kg	dw	34	3.00	24,000	2,474	122	4,833	829	3.21	12.0	38	9	21,000	1,006	15.0
Toluene	µg/kg	dw	38	3.00	22,000	2,500	30.5	5,093	826	2.62	6.86	34	5	7,900	999	14.5
Ethylbenzene	µg/kg	dw	16	10.0	15,000	3,741	1,800	5,028	1,257	1.31	0.28	56	9	21,000	1,103	15.0
Styrene	µg/kg	dw	2	1,000	2,700	1,850	1,850	0.00	0.00			16	13	3,500	384	21.0
Xylene (Total)	µg/kg	dw	37	7.00	110,000	22,081	1,200	32,990	5,424	1.37	0.60	34	9	1,600	148	14.0
Chlorobenzene	µg/kg	dw	27	5.00	220,000	16,937	3,000	44,189	8,504	4.16	18.53	46	9	7,900	793	15.0

Table G1-16. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
1,2-Dichlorobenzene	µg/kg	dw	23	3.00	150,000	23,036	1,000	46,513	9,699	2.09	3.09	51	9	7,900	968	15.0
1,3-Dichlorobenzene	µg/kg	dw	11	5.00	26,000	4,668	2,400	7,448	2,246	2.77	8.27	63	9	11,000	1,229	16.0
1,4-Dichlorobenzene	µg/kg	dw	23	4.00	460,000	47,826	2,700	109,400	22,800	3.02	9.52	51	9	7,900	908	15.0
Dichlorobenzene, non-specific	µg/kg	dw	25	4.00	636,000	67,247	3,200	153,000	30,575	2.85	8.25	49	9	7,900	944	15.0
1,2,3-Trichlorobenzene	µg/kg	dw	8	9.00	24,000	6,241	3,100	8,211	2,903	1.76	2.98	48	9	7,900	1,022	14.0
1,2,4-Trichlorobenzene	µg/kg	dw	13	8.00	56,000	5,422	980	15,293	4,241	3.53	12.6	61	9	21,000	1,552	65.0
1,3,5-Trichlorobenzene	µg/kg	dw	11	9.00	73,000	16,766	7,300	24,013	7,240	1.82	2.46	45	9	7,900	743	14.0
Trichlorobenzene	µg/kg	dw	17	9.00	97,000	14,355	3,600	26,773	6,493	2.47	5.84	39	9	7,900	787	14.0
Chloromethane	µg/kg	dw										18	13	18,000	1,552	25.0
Bromomethane	µg/kg	dw										18	13	18,000	1,552	25.0
Chloroethane	µg/kg	dw										18	13	18,000	1,552	25.0
Methylene chloride	µg/kg	dw										18	16	18,000	1,553	25.0
1,1-Dichloroethane	µg/kg	dw										18	13	18,000	1,552	25.0
Chloroform	µg/kg	dw										18	13	18,000	1,552	25.0
1,2-Dichloroethane	µg/kg	dw										18	13	18,000	1,552	25.0
1,1,1-Trichloroethane	µg/kg	dw										18	13	18,000	1,552	25.0
Carbon tetrachloride	µg/kg	dw										18	13	18,000	1,552	25.0
Bromodichloromethane	µg/kg	dw										18	13	18,000	1,552	25.0
1,2-Dichloropropane	µg/kg	dw										18	13	18,000	1,552	25.0
Dibromochloromethane	µg/kg	dw										18	13	18,000	1,552	25.0
1,1,2-Trichloroethane	µg/kg	dw										18	13	18,000	1,552	25.0
Bromoform	µg/kg	dw										18	13	18,000	1,552	25.0
1,1,2,2-Tetrachloroethane	µg/kg	dw										18	13	18,000	1,552	25.0
Vinyl chloride	µg/kg	dw										18	13	18,000	1,552	25.0
1,1-Dichloroethene	µg/kg	dw										18	13	18,000	1,552	25.0
1,2-Dichloroethene (Total)	µg/kg	dw										18	13	18,000	1,552	25.0
cis-1,3-Dichloropropene	µg/kg	dw										18	13	18,000	1,552	25.0
trans-1,3-Dichloropropene	µg/kg	dw										18	13	18,000	1,552	25.0
Trichloroethene	µg/kg	dw										18	13	18,000	1,552	25.0
Tetrachloroethene	µg/kg	dw										18	13	18,000	1,552	25.0
Acetone	µg/kg	dw	7	48.0	910	284	140	312	118	1.63	2.59	9	13	18,000	3,066	70.0
2-Butanone	µg/kg	dw	9	58.0	720	309	300	223	74.2	0.59	-0.12	8	13	18,000	3,440	1,083
2-Hexanone	µg/kg	dw										18	13	18,000	1,552	25.0
4-Methyl-2-pentanone	µg/kg	dw										18	13	18,000	1,552	25.0
Carbon disulfide	µg/kg	dw	3	3.00	20.0	10.7	9.00	8.62	4.98	0.84		15	13	18,000	1,858	66.0
Semivolatile Organic Compounds																
1,2,3,4-Tetrachlorobenzene	µg/kg	dw	15	2.60	17,000	1,428	5.00	4,369	1,128	3.70	14.0	30	3.3	46	6.96	4.65
Tetrachlorobenzene (mixed)	µg/kg	dw	17	2.90	29,000	2,430	35.0	7,056	1,711	3.76	14.7	28	3.3	43	8.53	5.15
Pentachloro benzene	µg/kg	dw	15	2.30	6,600	558	8.80	1,687	436	3.76	14.3	30	3.4	10	5.35	4.70
Hexachlorobenzene	µg/kg	dw	27	2.60	17,000	847	7.30	3,277	631	4.97	25.2	37	3.4	11,000	916	9.20
2-Chloronaphthalene	µg/kg	dw										18	65	11,000	1,883	125
Naphthalene	µg/kg	dw	14	430	630,000	108,538	17,900	199,000	53,182	2.20	3.84	13	65	20,000	3,320	87.0
Acenaphthylene	µg/kg	dw	7	780	220,000	39,600	7,900	79,928	30,210	2.59	6.78	20	65	65,000	8,729	1,315
Acenaphthene	µg/kg	dw	6	560	34,000	8,322	3,550	12,827	5,237	2.25	5.20	21	65	87,000	8,847	2,500
Fluorene	µg/kg	dw	15	49.0	94,000	17,180	4,200	30,365	7,840	2.16	3.54	11	65	11,000	1,332	86.0
Phenanthrene	µg/kg	dw	19	26.0	160,000	13,096	3,400	35,946	8,247	4.21	18.1	7	65	87	77.1	79.0
Anthracene	µg/kg	dw	12	220	51,000	7,931	1,750	15,155	4,375	2.58	6.55	15	65	11,000	1,344	94.0
2-Methylnaphthalene	µg/kg	dw	6	1,300	10,000	4,567	3,500	3,690	1,507	0.62	-1.57	11	65	3,100	362	86.0
PAH-Low MW	µg/kg	dw	26	390	1,242,000	111,000	16,970	272,000	53,300	3.59	13.2					

Table G1-16. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Fluoranthene	µg/kg	dw	17	41.0	260,000	32,800	3,600	65,760	15,900	2.97	9.54	9	65	1,100	291	79.0
Pyrene	µg/kg	dw	19	31.0	73,000	7,293	3,800	16,248	3,728	4.07	17.2	7	65	11,000	1,636	79.0
Benz(a)anthracene	.g/kg	dw	15	24.0	40,000	4,327	1,600	9,968	2,574	3.74	14.3	11	65	11,000	1,488	86.0
Chrysene	µg/kg	dw	16	24.0	59,000	6,067	2,550	14,400	3,589	3.79	14.7	10	65	11,000	1,628	82.5
Benzo(b)fluoranthene	µg/kg	dw	13	37.0	43,000	4,728	1,800	11,547	3,203	3.55	12.7	13	65	11,000	2,306	130
Benzo(k)fluoranthene	µg/kg	dw	9	410	20,000	3,528	920	6,330	2,110	2.75	7.78	19	65	11,000	1,952	130
Total benzofluoranthenes (b + k)	µg/kg	dw										1	22,000	22,000	22,000	22,000
Benzo(a)pyrene	µg/kg	dw	17	27.0	33,000	4,152	1,400	8,507	2,063	3.02	9.05	9	65	11,000	1,654	79.0
Indeno(1,2,3-cd)pyrene	µg/kg	dw	8	22.0	9,400	1,993	1,020	3,062	1,082	2.59	6.95	18	65	11,000	1,716	300
Dibenz(a,h)anthracene	µg/kg	dw	7	200	7,200	1,859	1,100	2,402	908	2.43	6.17	21	65	17,000	2,645	310
Benzo(g,h,i)perylene	µg/kg	dw	15	20.0	37,000	5,954	2,800	9,362	2,417	2.94	9.63	11	65	11,000	1,746	86.0
PAH-High MW	µg/kg	dw	26	341	513,400	47,400	17,350	103,000	20,226	4.01	17.9					
Phenol	µg/kg	dw	4	300	8,800	2,738	925	4,055	2,027	1.96	3.87	14	65	5,100	1,384	104
2-Methylphenol	µg/kg	dw	1	200	200	200	200					17	65	11,000	1,986	120
4-Methylphenol	µg/kg	dw	3	620	7,900	3,123	850	4,138	2,389	1.73		15	65	5,100	1,511	120
2,4-Dimethylphenol	µg/kg	dw	1	95.0	95.0	95.0	95.0					17	65	11,000	1,986	120
2-Chlorophenol	µg/kg	dw										17	65	11,000	1,986	120
2,4-Dichlorophenol	µg/kg	dw										17	65	11,000	1,986	120
4-Chloro-3-methylphenol	µg/kg	dw										17	65	11,000	1,986	120
2,4,6-Trichlorophenol	µg/kg	dw										17	65	11,000	1,986	120
2,4,5-Trichlorophenol	µg/kg	dw										17	160	27,000	4,988	310
Pentachlorophenol	µg/kg	dw										17	160	27,000	4,988	310
2-Nitrophenol	µg/kg	dw										17	65	11,000	1,986	120
4-Nitrophenol	µg/kg	dw										17	160	27,000	4,988	310
2,4-Dinitrophenol	µg/kg	dw										17	160	27,000	4,988	310
2-Methyl-4,6-dinitrophenol	µg/kg	dw										17	160	27,000	4,988	310
Hexachloroethane	µg/kg	dw										18	65	11,000	1,883	125
Hexachlorobutadiene	µg/kg	dw										18	65	11,000	1,883	125
Hexachlorocyclopentadiene	µg/kg	dw										18	65	11,000	1,883	125
Bis(2-chloroethyl)ether	µg/kg	dw										18	65	11,000	1,883	125
4-Chlorophenyl-phenyl ether	µg/kg	dw										18	65	11,000	1,883	125
4-Bromophenyl-phenyl ether	µg/kg	dw										18	65	11,000	1,883	125
Bis(2-chloroethoxy)methane	µg/kg	dw										18	65	11,000	1,883	125
2,2'-Oxybis(1-chloropropane)	µg/kg	dw										18	65	11,000	1,883	125
Dimethylphthalate	µg/kg	dw										18	65	11,000	1,883	125
Diethylphthalate	µg/kg	dw										18	65	11,000	1,883	125
Di-n-butylphthalate	µg/kg	dw										18	65	11,000	1,883	125
Butylbenzylphthalate	µg/kg	dw										18	65	11,000	1,883	125
Bis(2-ethylhexyl)phthalate	µg/kg	dw	2	57.0	1,900	979	979	1,303	922			15	65	11,000	1,813	120
Di-n-octylphthalate	µg/kg	dw										18	65	11,000	1,883	125
Isophorone	µg/kg	dw										18	65	11,000	1,883	125
Dibenzofuran	µg/kg	dw	2	940	2,800	1,870	1,870	1,315	930			15	65	11,000	1,739	94.0
Carbazole	µg/kg	dw										17	65	11,000	1,976	120
Nitrobenzene	µg/kg	dw										18	65	11,000	1,883	125
N-nitroso-di-*n* -propylamine	µg/kg	dw										18	65	11,000	1,883	125
2-Nitroaniline	µg/kg	dw										18	160	27,000	4,729	320
3-Nitroaniline	µg/kg	dw										18	160	27,000	4,729	320
4-Nitroaniline	µg/kg	dw										18	160	27,000	4,729	320
2,6-Dinitrotoluene	µg/kg	dw										18	65	11,000	1,883	125

Table G1-16. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
2,4-Dinitrotoluene	µg/kg	dw										18	65	11,000	1,883	125
N-Nitrosodiphenylamine(1)	µg/kg	dw										18	65	11,000	1,883	125
4-Chloroaniline	µg/kg	dw										18	65	11,000	1,883	125
3,3-Dichlorobenzidine	µg/kg	dw										18	65	11,000	1,883	125
Pesticides/Polychlorinated Biphenyls																
alpha-BHC	µg/kg	dw										18	2.5	5.1	3.60	3.30
beta-BHC	µg/kg	dw	1	44.0	44.0	44.0	44.0					16	2.5	5.1	3.66	3.30
delta-BHC	µg/kg	dw										18	2.5	5.1	3.60	3.30
gamma-BHC (Lindane)	µg/kg	dw										18	2.5	5.1	3.60	3.30
Aldrin	µg/kg	dw										18	2.5	5.1	3.60	3.30
alpha-Chlordane	µg/kg	dw										18	2.5	5.1	3.60	3.30
gamma-Chlordane	µg/kg	dw	1	10.0	10.0	10.0	10.0					17	2.5	5.1	3.53	3.30
Dieldrin	µg/kg	dw										18	4.8	9.8	6.95	6.30
Endosulfan I	µg/kg	dw										18	2.5	5.1	3.60	3.30
Endosulfan II	µg/kg	dw										18	4.8	9.8	6.95	6.30
Endosulfan sulfate	µg/kg	dw	2	7.90	15.0	11.5	11.5	0	0			16	4.8	9.8	6.97	6.25
Endrin	µg/kg	dw										18	4.8	9.8	6.95	6.30
Endrin aldehyde	µg/kg	dw										18	4.8	9.8	6.95	6.30
Endrin ketone	µg/kg	dw										18	4.8	9.8	6.95	6.30
Heptachlor	µg/kg	dw										18	2.5	5.1	3.60	3.30
Heptachlor epoxide	µg/kg	dw										18	2.5	5.1	3.60	3.30
Methoxychlor	µg/kg	dw										18	25	51	36.0	33.0
4,4'-DDD	µg/kg	dw										18	4.8	9.8	6.95	6.30
4,4'-DDE	µg/kg	dw	4	6.90	17.0	12.0	12.0	4.43	2.22	-0.02	-2.02	14	4.8	9.8	6.66	6.00
4,4'-DDT	µg/kg	dw										18	4.8	9.8	6.95	6.30
Toxaphene	µg/kg	dw										18	250	510	360	330
Aroclor-1016	µg/kg	dw										75	31	530	99.6	53.0
Aroclor-1221	µg/kg	dw										75	31	530	117	68.0
Aroclor-1232	µg/kg	dw										75	31	530	99.6	53.0
Aroclor-1242	µg/kg	dw	2	1,100	1,800	1,450	1,450	0	0			73	31	530	100	51.0
Aroclor-1248	µg/kg	dw	33	40.0	2,800	769	310	915	159	1.11	-0.37	41	34	98	58.4	49.0
Aroclor-1254	µg/kg	dw	2	150	240	195	195	63.6	45.0			72	31	530	101	50.5
Aroclor-1260	µg/kg	dw	29	34.0	1,900	589	330	565	105	0.92	-0.43	46	34	98	57.5	49.0
Polychlorinated biphenyls	µg/kg	dw	35	40.0	4,500	1,308	520	1,411	239	0.99	-0.49	39	34	98	57.9	49.0

Table G1-17. Summary Statistics for Lake Sediment Profiles Collected by Honeywell/PTI in 1992 (90 to 120 cm depth)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Acid-volatile sulfide																
Calcium carbonate	%	dw	47	21.7	82.3	46.1	43.5	19.5	10.6	0.47	-1.16					
Chloride-Calculated	mg/kg	ww	47	1,526	19,375	7,951	7,293	5,253	0.65	0.61	-0.52					
Chloride-Measured	mg/kg	dw	47	1,900	34,000	13,585	13,000	9,651	0.48	0.59	-0.53					
Total organic carbon	%	dw	47	0.30	4.20	2.48	2.40	0.96	48.1	-0.35	-0.34					
Percent moisture	%	ww	47	48.2	68.3	61.3	62.7	4.96	21.1	-1.53	1.93					
Total solids	%	ww	47	31.7	51.8	38.8	37.3	4.91	21.2	1.57	2.03					
Percent clay	%	ww	47	0.90	11.5	4.29	4.30	2.07	32.6	0.70	1.54					
Percent silt	%	ww	47	18.1	47.3	31.2	29.9	5.95	19.3	0.90	1.23					
Percent sand	%	ww	47	0.40	6.00	2.50	2.10	1.50	38.4	0.73	-0.43					
Total Metals and Cyanide																
Aluminum	mg/kg	dw	4	1,780	11,900	7,543	8,245	4,629	0.06	-0.57	-2.19					
Antimony	mg/kg	dw	3	6.90	10.4	8.87	9.30	1.79	2.24	-1.03		1	5.7	5.7	5.70	5.70
Arsenic	mg/kg	dw	4	3.10	9.80	5.03	3.60	3.22	2.23	1.88	3.53					
Barium	mg/kg	dw	4	118	208	154	145	39.2	0.64	1.18	1.23					
Beryllium	mg/kg	dw	1	0.44	0.44	0.44	0.44					3	0.35	0.57	0.48	0.52
Cadmium	mg/kg	dw	31	0.80	85.8	10.2	2.40	18.4	7.23	2.89	9.28	16	0.48	1.2	0.80	0.81
Calcium	mg/kg	dw	47	102,000	364,000	189,500	181,000	73,587	0.17	0.57	-0.87					
Chromium	mg/kg	dw	47	7.70	608	81.5	24.0	133	4.07	2.62	6.47					
Cobalt	mg/kg	dw	4	2.60	9.30	6.58	7.20	3.05	2.29	-0.82	-1.12					
Copper	mg/kg	dw	46	15.2	454	92.5	61.7	97.6	4.66	2.11	4.39	1	39.9	39.9	39.9	39.9
Iron	mg/kg	dw	4	3,200	25,600	17,850	21,300	10,575	0.04	-1.25	0.70					
Lead	mg/kg	dw	47	8.40	590	121	71.6	136	4.03	1.84	2.90					
Magnesium	mg/kg	dw	47	5,770	23,500	10,329	9,980	3,799	0.76	1.74	3.98					
Manganese	mg/kg	dw	4	147	899	528	534	380	0.21	-0.03	-5.28					
Mercury	mg/kg	dw	35	0.15	60.9	12.0	2.00	18.8	8.08	1.52	0.76	12	0.11	0.41	0.20	0.15
Nickel	mg/kg	dw	47	8.50	102	33.4	24.1	22.4	9.93	1.94	2.86					
Potassium	mg/kg	dw	4	328	1,650	984	980	658	0.16	0.02	-5.10					
Selenium	mg/kg	dw	3	0.41	1.20	0.74	0.60	0.41	4.67	1.33		1	0.66	0.66	0.66	0.66
Silver	mg/kg	dw	2	1.90	2.10	2.00	2.00	0.00	0.00			2	0.86	1.1	0.98	0.98
Sodium	mg/kg	dw	4	4,300	15,800	9,590	9,130	4,991	0.06	0.43	-1.09					
Thallium	mg/kg	dw										4	0.4	0.57	0.48	0.48
Vanadium	mg/kg	dw	4	1.50	17.0	11.7	14.1	7.26	1.48	-1.32	1.03					
Zinc	mg/kg	dw	47	37.8	783	192	128	163	3.68	1.79	3.21					
Volatile Organic Compounds																
Benzene	µg/kg	dw	21	2.00	18,000	2,872	670	4,885	0.30	2.24	4.68	26	12	1,600	241	13.5
Toluene	µg/kg	dw	26	4.00	28,000	3,621	13.5	7,120	0.31	2.39	5.59	21	12	1,600	356	14.0
Ethylbenzene	µg/kg	dw	12	11.0	6,600	2,590	2,050	2,333	0.25	0.44	-1.23	35	9	22,000	1,037	13.0
Styrene	µg/kg	dw	1	4,100	4,100	4,100	4,100					3	26	53	35.7	28.0
Xylene (Total)	µg/kg	dw	26	2.00	140,000	26,251	2,080	41,339	0.13	1.71	2.07	21	9	1,500	84.5	13.0
Chlorobenzene	µg/kg	dw	15	6.00	150,000	26,389	4,500	50,915	0.07	2.27	3.92	32	12	5,700	332	13.0

Table G1-17. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
1,2-Dichlorobenzene	µg/kg	dw	14	4.00	270,000	47,269	3,750	83,267	0.05	2.05	3.58	33	9	5,700	397	13.0
1,3-Dichlorobenzene	µg/kg	dw	8	11.0	24,000	5,016	1,450	8,122	0.09	2.30	5.48	39	12	14,000	951	14.0
1,4-Dichlorobenzene	µg/kg	dw	15	7.00	530,000	70,362	8,300	141,000	0.04	2.84	8.80	32	9	5,700	359	13.0
Dichlorobenzene, non-specific	µg/kg	dw	17	4.00	824,000	103,372	9,900	214,000	0.04	2.78	8.30	30	12	5,700	382	13.0
1,2,3-Trichlorobenzene	µg/kg	dw	9	3.00	7,300	2,537	2,900	2,557	0.18	0.75	-0.19	34	9	22,000	1,068	13.0
1,2,4-Trichlorobenzene	µg/kg	dw	4	4.00	140,000	35,776	1,550	69,487	0.02	2.00	4.00	43	9	22,000	1,216	14.0
1,3,5-Trichlorobenzene	µg/kg	dw	7	8.00	110,000	24,651	6,600	39,492	0.04	2.18	4.99	36	9	5,700	563	13.0
Trichlorobenzene	µg/kg	dw	12	3.00	110,000	16,541	2,650	31,741	0.07	2.72	7.90	31	9	3,700	416	13.0
Chloromethane	µg/kg	dw										4	26	11,000	2,777	40.5
Bromomethane	µg/kg	dw										4	26	11,000	2,777	40.5
Chloroethane	µg/kg	dw										4	26	11,000	2,777	40.5
Methylene chloride	µg/kg	dw										4	26	11,000	2,777	40.5
1,1-Dichloroethane	µg/kg	dw										4	26	11,000	2,777	40.5
Chloroform	µg/kg	dw										4	26	11,000	2,777	40.5
1,2-Dichloroethane	µg/kg	dw										4	26	11,000	2,777	40.5
1,1,1-Trichloroethane	µg/kg	dw										4	26	11,000	2,777	40.5
Carbon tetrachloride	µg/kg	dw										4	26	11,000	2,777	40.5
Bromodichloromethane	µg/kg	dw										4	26	11,000	2,777	40.5
1,2-Dichloropropane	µg/kg	dw										4	26	11,000	2,777	40.5
Dibromochloromethane	µg/kg	dw										4	26	11,000	2,777	40.5
1,1,2-Trichloroethane	µg/kg	dw										4	26	11,000	2,777	40.5
Bromoform	µg/kg	dw										4	26	11,000	2,777	40.5
1,1,2,2-Tetrachloroethane	µg/kg	dw										4	26	11,000	2,777	40.5
Vinyl chloride	µg/kg	dw										4	26	11,000	2,777	40.5
1,1-Dichloroethene	µg/kg	dw										4	26	11,000	2,777	40.5
1,2-Dichloroethene (Total)	µg/kg	dw										4	26	11,000	2,777	40.5
cis-1,3-Dichloropropene	µg/kg	dw										4	26	11,000	2,777	40.5
trans-1,3-Dichloropropene	µg/kg	dw										4	26	11,000	2,777	40.5
Trichloroethene	µg/kg	dw										4	26	11,000	2,777	40.5
Tetrachloroethene	µg/kg	dw										4	26	11,000	2,777	40.5
Acetone	µg/kg	dw	2	900	2,200	1,550	1,550	0.00	0.00			2	61	11,000	5,531	5,531
2-Butanone	µg/kg	dw	3	18.0	1,100	433	180	584	0.12	1.58		1	11,000	11,000	11,000	11,000
2-Hexanone	µg/kg	dw										4	26	11,000	2,777	40.5
4-Methyl-2-pentanone	µg/kg	dw										4	26	11,000	2,777	40.5
Carbon disulfide	µg/kg	dw										4	26	11,000	2,777	40.5
Semivolatile Organic Compounds																
1,2,3,4-Tetrachlorobenzene	µg/kg	dw	12	1.80	3,900	431	16.0	1,118	0.36	3.21	10.6	27	3.4	45	7.96	4.50
Tetrachlorobenzene (mixed)	µg/kg	dw	17	2.00	6,700	962	48.0	2,000	0.38	2.16	3.74	22	4.2	15	5.98	4.55
Pentachloro benzene	µg/kg	dw	13	2.20	780	156	23.0	277	0.78	1.99	2.67	26	4	41	6.85	4.50
Hexachlorobenzene	µg/kg	dw	15	2.70	3,400	479	57.0	909	0.50	2.77	8.20	28	4	14,000	596	4.50
2-Chloronaphthalene	µg/kg	dw										4	120	14,000	4,138	1,215
Naphthalene	µg/kg	dw	8	5,000	870,000	200,750	93,000	284,828	0.01	2.34	5.70	4	120	43,000	20,063	18,565
Acenaphthylene	µg/kg	dw	4	940	180,000	53,735	17,000	84,580	0.01	1.94	3.82	8	120	93,000	38,431	23,000
Acenaphthene	µg/kg	dw	4	1,100	28,000	9,675	4,800	12,350	0.04	1.87	3.61	8	120	84,000	27,031	17,500
Fluorene	µg/kg	dw	9	1,800	67,000	17,067	9,500	21,723	0.06	1.92	3.31	3	120	14,000	4,750	130
Phenanthrene	µg/kg	dw	10	4,700	170,000	26,710	8,200	50,875	0.04	3.05	9.43	2	120	130	125	125
Anthracene	µg/kg	dw	9	1,900	42,000	10,456	5,800	12,446	0.08	2.47	6.63	3	120	14,000	4,750	130
2-Methylnaphthalene	µg/kg	dw	2	2,600	10,000	6,300	6,300	0.00	0.00			2	120	130	125	125
PAH-Low MW	µg/kg	dw	12	720	1,410,000	250,595	152,250	388,840	0.02	2.83	8.65					

Table G1-17. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Fluoranthene	µg/kg	dw	9	79.0	80,000	26,742	24,000	27,291	0.05	0.96	0.13	3	120	920	640	880
Pyrene	µg/kg	dw	10	89.0	220,000	28,469	5,400	67,637	0.04	3.10	9.72	2	120	14,000	7,060	7,060
Benz(a)anthracene	g/kg	dw	10	46.0	220,000	27,855	3,150	68,193	0.04	3.05	9.45	2	120	14,000	7,060	7,060
Chrysene	µg/kg	dw	10	41.0	29,000	7,194	4,150	8,450	0.11	2.24	5.56	2	120	14,000	7,060	7,060
Benzo(b)fluoranthene	µg/kg	dw	9	73.0	14,000	5,397	4,400	4,382	0.14	0.89	0.38	3	120	14,000	5,773	3,200
Benzo(k)fluoranthene	µg/kg	dw	5	540	19,000	5,428	2,500	7,704	0.06	2.07	4.39	7	120	14,000	3,864	2,300
Total benzofluoranthenes (b + k)	µg/kg	dw										1	28,000	28,000	28,000	28,000
Benzo(a)pyrene	µg/kg	dw	11	45.0	16,000	3,581	2,800	4,413	0.17	2.56	7.51	1	14,000	14,000	14,000	14,000
Indeno(1,2,3-cd)pyrene	µg/kg	dw	4	1,300	3,400	1,850	1,350	1,034	0.12	1.99	3.96	8	120	14,000	4,124	2,650
Dibenz(a,h)anthracene	µg/kg	dw	4	520	10,000	2,990	720	4,677	0.06	1.99	3.97	8	120	17,000	7,456	7,950
Benzo(g,h,i)perylene	µg/kg	dw	9	1,400	31,000	7,778	5,700	9,029	0.09	2.60	7.28	3	120	14,000	4,750	130
PAH-High MW	µg/kg	dw	12	690	592,400	99,815	58,145	161,763	0.03	2.99	9.59					
Phenol	µg/kg	dw	1	14,000	14,000	14,000	14,000					3	120	2,300	850	130
2-Methylphenol	µg/kg	dw										4	120	14,000	4,138	1,215
4-Methylphenol	µg/kg	dw	1	3,900	3,900	3,900	3,900					3	120	2,300	850	130
2,4-Dimethylphenol	µg/kg	dw										4	120	14,000	4,138	1,215
2-Chlorophenol	µg/kg	dw										4	120	14,000	4,138	1,215
2,4-Dichlorophenol	µg/kg	dw										4	120	14,000	4,138	1,215
4-Chloro-3-methylphenol	µg/kg	dw										4	120	14,000	4,138	1,215
2,4,6-Trichlorophenol	µg/kg	dw										4	120	14,000	4,138	1,215
2,4,5-Trichlorophenol	µg/kg	dw										4	310	35,000	10,358	3,060
Pentachlorophenol	µg/kg	dw										4	310	35,000	10,358	3,060
2-Nitrophenol	µg/kg	dw										4	120	14,000	4,138	1,215
4-Nitrophenol	µg/kg	dw										4	310	35,000	10,358	3,060
2,4-Dinitrophenol	µg/kg	dw										4	310	35,000	10,358	3,060
2-Methyl-4,6-dinitrophenol	µg/kg	dw										4	310	35,000	10,358	3,060
Hexachloroethane	µg/kg	dw										4	120	14,000	4,138	1,215
Hexachlorobutadiene	µg/kg	dw										4	120	14,000	4,138	1,215
Hexachlorocyclopentadiene	µg/kg	dw										4	120	14,000	4,138	1,215
Bis(2-chloroethyl)ether	µg/kg	dw										4	120	14,000	4,138	1,215
4-Chlorophenyl-phenyl ether	µg/kg	dw										4	120	14,000	4,138	1,215
4-Bromophenyl-phenyl ether	µg/kg	dw										4	120	14,000	4,138	1,215
Bis(2-chloroethoxy)methane	µg/kg	dw										4	120	14,000	4,138	1,215
2,2'-Oxybis(1-chloropropane)	µg/kg	dw										4	120	14,000	4,138	1,215
Dimethylphthalate	µg/kg	dw										4	120	14,000	4,138	1,215
Diethylphthalate	µg/kg	dw										4	120	14,000	4,138	1,215
Di-n-butylphthalate	µg/kg	dw	1	3,000	3,000	3,000	3,000					3	120	2,300	850	130
Butylbenzylphthalate	µg/kg	dw										4	120	14,000	4,138	1,215
Bis(2-ethylhexyl)phthalate	µg/kg	dw										4	120	14,000	4,138	1,215
Di-n-octylphthalate	µg/kg	dw										4	120	14,000	4,138	1,215
Isophorone	µg/kg	dw										4	120	14,000	4,138	1,215
Dibenzofuran	µg/kg	dw										4	120	14,000	4,138	1,215
Carbazole	µg/kg	dw										4	120	14,000	4,138	1,215
Nitrobenzene	µg/kg	dw										4	120	14,000	4,138	1,215
N-nitroso-di-*n* -propylamine	µg/kg	dw										4	120	14,000	4,138	1,215
2-Nitroaniline	µg/kg	dw										4	310	35,000	10,358	3,060
3-Nitroaniline	µg/kg	dw										4	310	35,000	10,358	3,060
4-Nitroaniline	µg/kg	dw										4	310	35,000	10,358	3,060
2,6-Dinitrotoluene	µg/kg	dw										4	120	14,000	4,138	1,215

Table G1-17. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
2,4-Dinitrotoluene	µg/kg	dw										4	120	14,000	4,138	1,215
N-Nitrosodiphenylamine(1)	µg/kg	dw										4	120	14,000	4,138	1,215
4-Chloroaniline	µg/kg	dw										4	120	14,000	4,138	1,215
3,3-Dichlorobenzidine	µg/kg	dw										4	120	14,000	4,138	1,215
Pesticides/Polychlorinated Biphenyls																
alpha-BHC	µg/kg	dw										4	3.9	4.8	4.45	4.55
beta-BHC	µg/kg	dw	1	45.0	45.0	45.0	45.0					3	4.4	4.8	4.63	4.70
delta-BHC	µg/kg	dw										4	3.9	4.8	4.45	4.55
gamma-BHC (Lindane)	µg/kg	dw										4	3.9	4.8	4.45	4.55
Aldrin	µg/kg	dw										4	3.9	4.8	4.45	4.55
alpha-Chlordane	µg/kg	dw										4	3.9	4.8	4.45	4.55
gamma-Chlordane	µg/kg	dw										4	3.9	4.8	4.45	4.55
Dieldrin	µg/kg	dw										4	7.7	9.4	8.70	8.85
Endosulfan I	µg/kg	dw										4	3.9	4.8	4.45	4.55
Endosulfan II	µg/kg	dw										4	7.7	9.4	8.70	8.85
Endosulfan sulfate	µg/kg	dw										4	7.7	9.4	8.70	8.85
Endrin	µg/kg	dw										4	7.7	9.4	8.70	8.85
Endrin aldehyde	µg/kg	dw										4	7.7	9.4	8.70	8.85
Endrin ketone	µg/kg	dw										4	7.7	9.4	8.70	8.85
Heptachlor	µg/kg	dw	1	4.80	4.80	4.80	4.80					3	4.4	4.8	4.63	4.70
Heptachlor epoxide	µg/kg	dw										4	3.9	4.8	4.45	4.55
Methoxychlor	µg/kg	dw										4	39	48	44.5	45.5
4,4'-DDD	µg/kg	dw										4	7.7	9.4	8.70	8.85
4,4'-DDE	µg/kg	dw	1	11.0	11.0	11.0	11.0					3	8.6	9.4	9.03	9.10
4,4'-DDT	µg/kg	dw										4	7.7	9.4	8.70	8.85
Toxaphene	µg/kg	dw										4	390	480	445	455
Aroclor-1016	µg/kg	dw										47	32	410	95.7	46.0
Aroclor-1221	µg/kg	dw										47	32	410	103	46.0
Aroclor-1232	µg/kg	dw										47	32	410	95.7	46.0
Aroclor-1242	µg/kg	dw	1	430	430	430	430					46	32	410	96.1	46.0
Aroclor-1248	µg/kg	dw	18	46.0	3,800	804	220	1,069	0.55	1.87	3.01	29	40	100	56.1	46.0
Aroclor-1254	µg/kg	dw										47	32	410	95.7	46.0
Aroclor-1260	µg/kg	dw	18	28.0	4,100	693	385	985	0.57	2.75	8.59	29	40	100	56.4	46.0
Polychlorinated biphenyls	µg/kg	dw	19	93.0	6,000	1,441	590	1,838	0.44	1.69	1.68	28	40	100	55.4	45.5

Table G1-18. Summary Statistics for Lake Sediment Profiles Collected by Honeywell/PTI in 1992 (120 to 150 cm depth)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Acid-volatile sulfide																
Calcium carbonate	%	dw	26	23.5	91.7	52.6	51.3	22.0	5.54	0.16	-1.52					
Chloride-Calculated	mg/kg	ww	26	1,759	21,500	7,546	6,760	5,756	0.34	0.83	-0.29					
Chloride-Measured	mg/kg	dw	26	1,900	33,000	11,715	9,400	9,331	0.27	0.69	-0.71					
Total organic carbon	%	dw	26	0.40	4.30	2.24	2.25	0.92	27.1	0.07	0.23					
Percent moisture	%	ww	26	46.4	68.7	58.6	59.7	5.86	10.7	-0.50	-0.08					
Total solids	%	ww	26	30.8	53.6	41.1	40.3	6.21	10.4	0.38	-0.26					
Percent clay	%	ww	26	0.70	18.8	4.54	4.10	3.62	13.7	2.53	9.27					
Percent silt	%	ww	26	15.8	46.0	32.8	32.9	7.32	9.61	0.05	0.00					
Percent sand	%	ww	26	0.90	8.20	2.89	2.70	1.77	19.5	1.27	1.86					
Total Metals and Cyanide																
Aluminum	mg/kg	dw	2	1,800	12,800	7,300	7,300	0.00	0.00							
Antimony	mg/kg	dw	2	7.10	7.20	7.15	7.15	0.00	0.00							
Arsenic	mg/kg	dw	2	5.50	6.70	6.10	6.10	0.00	0.00							
Barium	mg/kg	dw	2	108	148	128	128	0.00	0.00							
Beryllium	mg/kg	dw	1	0.49	0.49	0.49	0.49					1	0.29	0.29	0.29	0.29
Cadmium	mg/kg	dw	20	0.65	22.1	4.35	2.10	5.87	8.26	2.43	5.32	6	0.62	1.1	0.81	0.82
Calcium	mg/kg	dw	26	107,000	354,000	212,192	213,000	78,617	0.09	0.18	-1.36					
Chromium	mg/kg	dw	26	6.50	234	49.7	28.3	58.6	3.40	2.33	5.13					
Cobalt	mg/kg	dw	2	3.10	8.70	5.90	5.90	0.00	0.00							
Copper	mg/kg	dw	26	13.8	243	72.5	57.2	60.9	3.33	1.80	3.24					
Iron	mg/kg	dw	2	2,600	25,000	13,800	13,800	0.00	0.00							
Lead	mg/kg	dw	26	6.60	263	89.4	80.3	72.9	3.04	0.90	0.26					
Magnesium	mg/kg	dw	26	4,730	25,200	11,392	10,020	5,690	0.34	1.43	1.45					
Manganese	mg/kg	dw	2	156	417	287	287	0.00	0.00							
Mercury	mg/kg	dw	18	0.51	72.7	20.1	3.20	24.1	3.67	0.96	-0.55	8	0.09	0.25	0.16	0.14
Nickel	mg/kg	dw	26	8.80	72.2	30.9	26.2	15.7	6.56	1.30	1.19					
Potassium	mg/kg	dw	2	323	1,990	1,157	1,157	0.00	0.00							
Selenium	mg/kg	dw	2	0.52	0.94	0.73	0.73	0.00	0.00							
Silver	mg/kg	dw	1	2.20	2.20	2.20	2.20					1	0.71	0.71	0.71	0.71
Sodium	mg/kg	dw	2	3,980	9,970	6,975	6,975	0.00	0.00							
Thallium	mg/kg	dw										2	0.36	0.4	0.38	0.38
Vanadium	mg/kg	dw	1	21.6	21.6	21.6	21.6					1	1.2	1.2	1.20	1.20
Zinc	mg/kg	dw	26	28.6	476	147	104	123	2.35	1.75	2.42					
Volatile Organic Compounds																
Benzene	µg/kg	dw	17	4.00	34,000	3,978	1,100	8,329	0.19	3.32	11.8	9	12	27	14.1	13.0
Toluene	µg/kg	dw	16	4.00	15,000	3,713	760	5,012	0.23	1.23	0.29	10	5	2,700	281	13.0
Ethylbenzene	µg/kg	dw	4	37.0	4,000	1,929	1,839	2,167	0.09	0.03	-5.83	22	9	22,000	2,086	13.0
Styrene	µg/kg	dw	1	5,700	5,700	5,700	5,700					1	27	27	27.0	27.0
Xylene (Total)	µg/kg	dw	16	5.00	85,000	22,026	17,500	26,686	0.10	1.28	1.08	10	12	1,200	133	13.0
Chlorobenzene	µg/kg	dw	15	6.00	250,000	34,576	1,600	70,996	0.06	2.57	6.37	11	12	2,700	257	13.0
1,2-Dichlorobenzene	µg/kg	dw	10	3.00	220,000	47,701	27,500	67,453	0.04	2.14	5.17	16	11	2,700	261	13.0
1,3-Dichlorobenzene	µg/kg	dw	6	5.00	11,000	3,054	100	4,806	0.09	1.24	-0.24	20	12	22,000	2,303	14.0
1,4-Dichlorobenzene	µg/kg	dw	15	5.00	550,000	66,600	2,300	144,812	0.04	3.04	9.97	11	12	2,700	266	13.0
Dichlorobenzene, non-specific	µg/kg	dw	15	5.00	770,000	99,620	2,700	204,000	0.03	2.90	9.15	11	12	2,700	266	13.0

Table G1-18. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
1,2,3-Trichlorobenzene	µg/kg	dw	3	27.0	40,000	16,309	8,900	20,991	0.02	1.39		21	9	5,600	951	13.0
1,2,4-Trichlorobenzene	µg/kg	dw	2	13.0	10,000	5,007	5,007	0.00	0.00			24	9	22,000	1,979	13.5
1,3,5-Trichlorobenzene	µg/kg	dw	4	18.0	74,000	33,505	30,000	31,346	0.02	0.59	0.21	20	9	3,600	719	13.0
Trichlorobenzene	µg/kg	dw	5	13.0	114,000	36,592	21,000	47,531	0.02	1.41	1.69	19	9	3,600	756	13.0
Chloromethane	µg/kg	dw										2	27	7,500	3,764	3,764
Bromomethane	µg/kg	dw										2	27	7,500	3,764	3,764
Chloroethane	µg/kg	dw										2	27	7,500	3,764	3,764
Methylene chloride	µg/kg	dw										2	27	7,500	3,764	3,764
1,1-Dichloroethane	µg/kg	dw										2	27	7,500	3,764	3,764
Chloroform	µg/kg	dw										2	27	7,500	3,764	3,764
1,2-Dichloroethane	µg/kg	dw										2	27	7,500	3,764	3,764
1,1,1-Trichloroethane	µg/kg	dw										2	27	7,500	3,764	3,764
Carbon tetrachloride	µg/kg	dw										2	27	7,500	3,764	3,764
Bromodichloromethane	µg/kg	dw										2	27	7,500	3,764	3,764
1,2-Dichloropropane	µg/kg	dw										2	27	7,500	3,764	3,764
Dibromochloromethane	µg/kg	dw										2	27	7,500	3,764	3,764
1,1,2-Trichloroethane	µg/kg	dw										2	27	7,500	3,764	3,764
Bromoform	µg/kg	dw										2	27	7,500	3,764	3,764
1,1,2,2-Tetrachloroethane	µg/kg	dw										2	27	7,500	3,764	3,764
Vinyl chloride	µg/kg	dw										2	27	7,500	3,764	3,764
1,1-Dichloroethene	µg/kg	dw										2	27	7,500	3,764	3,764
1,2-Dichloroethene (Total)	µg/kg	dw										2	27	7,500	3,764	3,764
cis-1,3-Dichloropropene	µg/kg	dw										2	27	7,500	3,764	3,764
trans-1,3-Dichloropropene	µg/kg	dw										2	27	7,500	3,764	3,764
Trichloroethene	µg/kg	dw										2	27	7,500	3,764	3,764
Tetrachloroethene	µg/kg	dw										2	27	7,500	3,764	3,764
Acetone	µg/kg	dw	1	570	570	570	570					1	7,500	7,500	7,500	7,500
2-Butanone	µg/kg	dw	1	420	420	420	420					1	7,500	7,500	7,500	7,500
2-Hexanone	µg/kg	dw										2	27	7,500	3,764	3,764
4-Methyl-2-pentanone	µg/kg	dw										2	27	7,500	3,764	3,764
Carbon disulfide	µg/kg	dw	1	8.00	8.00	8.00	8.00					1	7,500	7,500	7,500	7,500
Semivolatile Organic Compounds																
1,2,3,4-Tetrachlorobenzene	µg/kg	dw	9	2.20	1,100	218	19.0	379	0.46	1.97	3.60	15	3.7	91	12.9	4.20
Tetrachlorobenzene (mixed)	µg/kg	dw	10	4.00	4,100	921	23.5	1,547	0.25	1.43	0.62	14	4	91	14.7	5.05
Pentachloro benzene	µg/kg	dw	10	2.20	310	79.3	7.40	111	0.95	1.28	0.52	14	3.7	42	7.14	4.20
Hexachlorobenzene	µg/kg	dw	10	5.30	1,100	283	15.5	388	0.51	1.18	0.51	16	3.8	9,600	613	4.30
2-Chloronaphthalene	µg/kg	dw										2	110	9,600	4,855	4,855
Naphthalene	µg/kg	dw	8	180	360,000	90,573	63,000	119,700	0.02	1.94	4.22	1	8,800	8,800	8,800	8,800
Acenaphthylene	µg/kg	dw	7	95.0	18,000	7,956	7,700	6,122	0.09	0.51	-0.30	2	84,000	420,000	252,000	252,000
Acenaphthene	µg/kg	dw	6	54.0	160,000	29,592	4,500	63,950	0.02	2.44	5.96	3	9,600	42,000	22,533	16,000
Fluorene	µg/kg	dw	6	110	97,000	22,702	5,100	37,717	0.03	2.11	4.52	3	400	9,600	6,133	8,400
Phenanthrene	µg/kg	dw	8	230	180,000	27,074	5,850	61,885	0.03	2.81	7.93	1	4,200	4,200	4,200	4,200
Anthracene	µg/kg	dw	7	130	54,000	11,247	4,400	19,066	0.05	2.52	6.50	2	110	4,200	2,155	2,155
2-Methylnaphthalene	µg/kg	dw	2	120	11,000	5,560	5,560	0.00	0.00							
PAH-Low MW	µg/kg	dw	9	1,309	1,271,000	222,000	127,100	400,429	0.01	2.80	8.12					
Fluoranthene	µg/kg	dw	7	410	180,000	55,210	18,000	76,438	0.03	1.18	-0.61	2	800	960	880	880
Pyrene	µg/kg	dw	7	910	95,000	16,987	3,100	34,551	0.04	2.60	6.80	2	4,200	9,600	6,900	6,900
Benz(a)anthracene	g/kg	dw	6	490	36,000	7,855	2,750	13,871	0.05	2.38	5.75	3	1,600	9,600	5,133	4,200
Chrysene	µg/kg	dw	8	300	59,000	10,525	5,450	19,768	0.06	2.73	7.57	1	9,600	9,600	9,600	9,600
Benzo(b)fluoranthene	µg/kg	dw	5	540	81,000	18,248	3,900	35,133	0.03	2.22	4.94	4	1,800	9,600	5,750	5,800
Benzo(k)fluoranthene	µg/kg	dw	4	460	2,800	1,390	1,150	1,002	0.13	1.28	2.11	5	110	21,000	6,558	1,600
Total benzofluoranthenes (b + k)	µg/kg	dw										1	19,200	19,200	19,200	19,200
Benzo(a)pyrene	µg/kg	dw	6	460	15,000	3,718	1,370	5,668	0.08	2.20	4.96	3	1,600	9,600	5,133	4,200

Table G1-18. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Indeno(1,2,3-cd)pyrene	µg/kg	dw	7	220	41,000	6,584	1,100	15,187	0.06	2.64	6.97	2	9,600	21,000	15,300	15,300
Dibenz(a,h)anthracene	µg/kg	dw	3	140	1,700	907	880	780	0.11	0.15		6	960	42,000	10,993	5,800
Benzo(g,h,i)perylene	µg/kg	dw	8	290	77,000	11,830	2,350	26,405	0.05	2.80	7.87	1	9,600	9,600	9,600	9,600
PAH-High MW	µg/kg	dw	9	3,310	525,000	109,310	43,900	170,000	0.02	2.26	5.17					
Phenol	µg/kg	dw	1	11,000	11,000	11,000	11,000					1	110	110	110	110
2-Methylphenol	µg/kg	dw										2	110	9,600	4,855	4,855
4-Methylphenol	µg/kg	dw	1	41.0	41.0	41.0	41.0					1	9,600	9,600	9,600	9,600
2,4-Dimethylphenol	µg/kg	dw										2	110	9,600	4,855	4,855
2-Chlorophenol	µg/kg	dw										2	110	9,600	4,855	4,855
2,4-Dichlorophenol	µg/kg	dw										2	110	9,600	4,855	4,855
4-Chloro-3-methylphenol	µg/kg	dw										2	110	9,600	4,855	4,855
2,4,6-Trichlorophenol	µg/kg	dw										2	110	9,600	4,855	4,855
2,4,5-Trichlorophenol	µg/kg	dw										2	270	24,000	12,135	12,135
Pentachlorophenol	µg/kg	dw										2	270	24,000	12,135	12,135
2-Nitrophenol	µg/kg	dw										2	110	9,600	4,855	4,855
4-Nitrophenol	µg/kg	dw										2	270	24,000	12,135	12,135
2,4-Dinitrophenol	µg/kg	dw										2	270	24,000	12,135	12,135
2-Methyl-4,6-dinitrophenol	µg/kg	dw										2	270	24,000	12,135	12,135
Hexachloroethane	µg/kg	dw										2	110	9,600	4,855	4,855
Hexachlorobutadiene	µg/kg	dw										2	110	9,600	4,855	4,855
Hexachlorocyclopentadiene	µg/kg	dw										2	110	9,600	4,855	4,855
Bis(2-chloroethyl)ether	µg/kg	dw										2	110	9,600	4,855	4,855
4-Chlorophenyl-phenyl ether	µg/kg	dw										2	110	9,600	4,855	4,855
4-Bromophenyl-phenyl ether	µg/kg	dw										2	110	9,600	4,855	4,855
Bis(2-chloroethoxy)methane	µg/kg	dw										2	110	9,600	4,855	4,855
2,2'-Oxybis(1-chloropropane)	µg/kg	dw										2	110	9,600	4,855	4,855
Dimethylphthalate	µg/kg	dw										2	110	9,600	4,855	4,855
Diethylphthalate	µg/kg	dw										2	110	9,600	4,855	4,855
Di-n-butylphthalate	µg/kg	dw	2	43.0	2,400	1,222	1,222	0	0							
Butylbenzylphthalate	µg/kg	dw										2	110	9,600	4,855	4,855
Bis(2-ethylhexyl)phthalate	µg/kg	dw	1	33.0	33.0	33.0	33.0					1	9,600	9,600	9,600	9,600
Di-n-octylphthalate	µg/kg	dw										2	110	9,600	4,855	4,855
Isophorone	µg/kg	dw										2	110	9,600	4,855	4,855
Dibenzofuran	µg/kg	dw	2	35.0	4,900	2,468	2,468	0	0							
Carbazole	µg/kg	dw										2	110	9,600	4,855	4,855
Nitrobenzene	µg/kg	dw										2	110	9,600	4,855	4,855
N-nitroso-di-*n*-propylamine	µg/kg	dw										2	110	9,600	4,855	4,855
2-Nitroaniline	µg/kg	dw										2	270	24,000	12,135	12,135
3-Nitroaniline	µg/kg	dw										2	270	24,000	12,135	12,135
4-Nitroaniline	µg/kg	dw										2	270	24,000	12,135	12,135
2,6-Dinitrotoluene	µg/kg	dw										2	110	9,600	4,855	4,855
2,4-Dinitrotoluene	µg/kg	dw										2	110	9,600	4,855	4,855
N-Nitrosodiphenylamine(1)	µg/kg	dw										2	110	9,600	4,855	4,855
4-Chloroaniline	µg/kg	dw										2	110	9,600	4,855	4,855
3,3-Dichlorobenzidine	µg/kg	dw										2	110	9,600	4,855	4,855
Pesticides/Polychlorinated Biphenyls																
alpha-BHC	µg/kg	dw										2	3.7	4	3.85	3.85
beta-BHC	µg/kg	dw										2	3.7	4	3.85	3.85
delta-BHC	µg/kg	dw										2	3.7	4	3.85	3.85
gamma-BHC (Lindane)	µg/kg	dw										2	3.7	4	3.85	3.85
Aldrin	µg/kg	dw										2	3.7	4	3.85	3.85
alpha-Chlordane	µg/kg	dw										2	3.7	4	3.85	3.85
gamma-Chlordane	µg/kg	dw										2	3.7	4	3.85	3.85

Table G1-18. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Dieldrin	µg/kg	dw										2	7.2	7.7	7.45	7.45
Endosulfan I	µg/kg	dw										2	3.7	4	3.85	3.85
Endosulfan II	µg/kg	dw										2	7.2	7.7	7.45	7.45
Endosulfan sulfate	µg/kg	dw										2	7.2	7.7	7.45	7.45
Endrin	µg/kg	dw										2	7.2	7.7	7.45	7.45
Endrin aldehyde	µg/kg	dw										2	7.2	7.7	7.45	7.45
Endrin ketone	µg/kg	dw										2	7.2	7.7	7.45	7.45
Heptachlor	µg/kg	dw										2	3.7	4	3.85	3.85
Heptachlor epoxide	µg/kg	dw										2	3.7	4	3.85	3.85
Methoxychlor	µg/kg	dw										2	37	40	38.5	38.5
4,4'-DDD	µg/kg	dw										2	7.2	7.7	7.45	7.45
4,4'-DDE	µg/kg	dw										2	7.2	7.7	7.45	7.45
4,4'-DDT	µg/kg	dw										2	7.2	7.7	7.45	7.45
Toxaphene	µg/kg	dw										2	370	400	385	385
Aroclor-1016	µg/kg	dw										26	32	420	85.2	46.0
Aroclor-1221	µg/kg	dw										26	32	420	91.4	46.0
Aroclor-1232	µg/kg	dw										26	32	420	85.2	46.0
Aroclor-1242	µg/kg	dw										26	32	420	85.2	46.0
Aroclor-1248	µg/kg	dw	12	46.0	770	378	420	224	0.80	0.05	-0.78	14	38	77	46.4	43.0
Aroclor-1254	µg/kg	dw										26	32	420	85.2	46.0
Aroclor-1260	µg/kg	dw	11	42.0	2,000	556	450	568	0.46	1.78	3.87	15	38	77	46.0	42.0
Polychlorinated biphenyls	µg/kg	dw	12	110	2,510	887	890	685	0.46	1.08	1.67	14	38	77	46.4	43.0

Table G1-19. Summary Statistics for Lake Sediment Profiles Collected by Honeywell/PTI in 1992 (150 to 180 cm depth)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Acid-volatile sulfide																
Calcium carbonate	%	dw	3	23.4	84.5	44.9	26.8	34.3	0.51	1.71						
Chloride-Calculated	mg/kg	ww	3	1,891	28,374	16,859	20,312	13,575	0.03	-1.07						
Chloride-Measured	mg/kg	dw	3	2,000	41,000	25,333	33,000	20,599	0.02	-1.44						
Total organic carbon	%	dw	3	1.65	3.20	2.38	2.28	0.78	3.40	0.55						
Percent moisture	%	ww	3	51.4	61.9	57.5	59.1	5.44	1.29	-1.23						
Total solids	%	ww	4	38.1	48.8	44.1	44.8	5.43	1.72	-0.22	-4.71					
Percent clay	%	ww	3	1.30	9.00	5.47	6.10	3.89	1.52	-0.71						
Percent silt	%	ww	3	25.0	44.2	32.6	28.5	10.2	0.94	1.51						
Percent sand	%	ww	3	2.00	3.40	2.87	3.20	0.76	3.45	-1.60						
Total Metals and Cyanide																
Aluminum																
Antimony																
Arsenic																
Barium																
Beryllium																
Cadmium	mg/kg	dw	2	3.80	4.00	3.90	3.90	0.00	0.00			2	0.66	0.8	0.73	0.73
Calcium	mg/kg	dw	4	103,000	318,000	191,250	172,000	102,181	0.01	0.59	-2.60					
Chromium	mg/kg	dw	4	14.0	63.3	34.8	30.9	24.2	0.81	0.41	-3.67					
Cobalt																
Copper	mg/kg	dw	4	22.4	142	62.6	43.0	56.2	0.53	1.41	1.47					
Iron																
Lead	mg/kg	dw	4	18.0	208	107	101	99.2	0.40	0.08	-5.46					
Magnesium	mg/kg	dw	4	7,200	9,640	8,653	8,885	1,181	0.12	-0.56	-2.85					
Manganese																
Mercury	mg/kg	dw	4	0.14	62.6	16.3	1.30	30.9	0.72	1.99	3.98					
Nickel	mg/kg	dw	4	17.7	29.6	24.4	25.1	5.28	1.74	-0.59	-1.36					
Potassium																
Selenium																
Silver																
Sodium																
Thallium																
Vanadium																
Zinc	mg/kg	dw	4	57.3	263	119	77.5	97.5	0.41	1.83	3.37					
Volatile Organic Compounds																
Benzene	µg/kg	dw	1	13,000	13,000	13,000	13,000					2	12	13	12.5	12.5
Toluene	µg/kg	dw										3	12	23,000	7,675	13.0
Ethylbenzene	µg/kg	dw										3	12	23,000	7,675	13.0
Styrene																
Xylene (Total)	µg/kg	dw	1	36,000	36,000	36,000	36,000					2	12	13	12.5	12.5
Chlorobenzene	µg/kg	dw	2	5.00	170,000	85,003	85,003	0	0			1	12	12	12.0	12.0

Table G1-19. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
1,2-Dichlorobenzene	µg/kg	dw	1	310,000	310,000	310,000	310,000					2	12	13	12.5	12.5
1,3-Dichlorobenzene	µg/kg	dw	1	6.00	6.00	6.00	6.00					2	12	23,000	11,506	11,506
1,4-Dichlorobenzene	µg/kg	dw	2	5.00	710,000	355,003	355,003	0	0			1	12	12	12.0	12.0
Dichlorobenzene, non-specific	µg/kg	dw	2	11.0	1,020,000	510,006	510,006	0	0			1	12	12	12.0	12.0
1,2,3-Trichlorobenzene	µg/kg	dw	1	240,000	240,000	240,000	240,000					2	12	13	12.5	12.5
1,2,4-Trichlorobenzene	µg/kg	dw										3	12	23,000	7,675	13.0
1,3,5-Trichlorobenzene	µg/kg	dw	1	1,100,000	1,100,000	1,100,000	1,100,000					2	12	13	12.5	12.5
Trichlorobenzene	µg/kg	dw	1	1,340,000	1,340,000	1,340,000	1,340,000					2	12	13	12.5	12.5
Chloromethane																
Bromomethane																
Chloroethane																
Methylene chloride																
1,1-Dichloroethane																
Chloroform																
1,2-Dichloroethane																
1,1,1-Trichloroethane																
Carbon tetrachloride																
Bromodichloromethane																
1,2-Dichloropropane																
Dibromochloromethane																
1,1,2-Trichloroethane																
Bromoform																
1,1,2,2-Tetrachloroethane																
Vinyl chloride																
1,1-Dichloroethene																
1,2-Dichloroethene (Total)																
cis-1,3-Dichloropropene																
trans-1,3-Dichloropropene																
Trichloroethene																
Tetrachloroethene																
Acetone																
2-Butanone																
2-Hexanone																
4-Methyl-2-pentanone																
Carbon disulfide																
Semivolatile Organic Compounds																
1,2,3,4-Tetrachlorobenzene	µg/kg	dw	1	16,000	16,000	16,000	16,000					2	4.3	5	4.65	4.65
Tetrachlorobenzene (mixed)	µg/kg	dw	1	15,000	15,000	15,000	15,000					2	4.1	4.3	4.20	4.20
Pentachloro benzene	µg/kg	dw	1	1,200	1,200	1,200	1,200					2	4.1	4.3	4.20	4.20
Hexachlorobenzene	µg/kg	dw	1	1,300	1,300	1,300	1,300					2	4.1	4.3	4.20	4.20
2-Chloronaphthalene																
Naphthalene																
Acenaphthylene																
Acenaphthene																
Fluorene																
Phenanthrene																
Anthracene																
2-Methylnaphthalene																
PAH-Low MW																

Table G1-19. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Fluoranthene																
Pyrene																
Benz(a)anthracene																
Chrysene																
Benzo(b)fluoranthene																
Benzo(k)fluoranthene																
Total benzofluoranthenes (b + k)																
Benzo(a)pyrene																
Indeno(1,2,3-cd)pyrene																
Dibenz(a,h)anthracene																
Benzo(g,h,i)perylene																
PAH-High MW																
Phenol																
2-Methylphenol																
4-Methylphenol																
2,4-Dimethylphenol																
2-Chlorophenol																
2,4-Dichlorophenol																
4-Chloro-3-methylphenol																
2,4,6-Trichlorophenol																
2,4,5-Trichlorophenol																
Pentachlorophenol																
2-Nitrophenol																
4-Nitrophenol																
2,4-Dinitrophenol																
2-Methyl-4,6-dinitrophenol																
Hexachloroethane																
Hexachlorobutadiene																
Hexachlorocyclopentadiene																
Bis(2-chloroethyl)ether																
4-Chlorophenyl-phenyl ether																
4-Bromophenyl-phenyl ether																
Bis(2-chloroethoxy)methane																
2,2'-Oxybis(1-chloropropane)																
Dimethylphthalate																
Diethylphthalate																
Di-n-butylphthalate																
Butylbenzylphthalate																
Bis(2-ethylhexyl)phthalate																
Di-n-octylphthalate																
Isophorone																
Dibenzofuran																
Carbazole																
Nitrobenzene																
N-nitroso-di-*n*-propylamine																
2-Nitroaniline																
3-Nitroaniline																
4-Nitroaniline																
2,6-Dinitrotoluene																

Table G1-19. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
2,4-Dinitrotoluene																
N-Nitrosodiphenylamine(1)																
4-Chloroaniline																
3,3-Dichlorobenzidine																
Pesticides/Polychlorinated Biphenyls																
alpha-BHC																
beta-BHC																
delta-BHC																
gamma-BHC (Lindane)																
Aldrin																
alpha-Chlordane																
gamma-Chlordane																
Dieldrin																
Endosulfan I																
Endosulfan II																
Endosulfan sulfate																
Endrin																
Endrin aldehyde																
Endrin ketone																
Heptachlor																
Heptachlor epoxide																
Methoxychlor																
4,4'-DDD																
4,4'-DDE																
4,4'-DDT																
Toxaphene																
Aroclor-1016	µg/kg	dw										3	41	68	50.7	43.0
Aroclor-1221	µg/kg	dw										3	41	68	50.7	43.0
Aroclor-1232	µg/kg	dw										3	41	68	50.7	43.0
Aroclor-1242	µg/kg	dw										3	41	68	50.7	43.0
Aroclor-1248	µg/kg	dw	1	810	810	810	810					2	41	43	42.0	42.0
Aroclor-1254	µg/kg	dw										3	41	68	50.7	43.0
Aroclor-1260	µg/kg	dw	1	320	320	320	320					2	41	43	42.0	42.0
Polychlorinated biphenyls	µg/kg	dw	1	1,130	1,130	1,130	1,130					2	41	43	42.0	42.0

Table G1-20. Summary Statistics for Lake Sediment Profiles Collected by Honeywell/PTI in 1992 (180 to 210 cm depth)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Acid-volatile sulfide																
Calcium carbonate	%	dw	2	51.2	80.3	65.8	65.8	0	0							
Chloride-Calculated	mg/kg	ww	2	1,867	2,328	2,098	2,098	0	0							
Chloride-Measured	mg/kg	dw	2	2,300	2,300	2,300	2,300	0	0							
Total organic carbon	%	dw	2	2.43	2.50	2.47	2.47	0	0							
Percent moisture	%	ww	2	49.7	55.2	52.5	52.5	0	0							
Total solids	%	ww	2	44.8	50.3	47.6	47.6	0	0							
Percent clay	%	ww	2	1.30	3.50	2.40	2.40	0	0							
Percent silt	%	ww	2	35.5	39.7	37.6	37.6	0	0							
Percent sand	%	ww	2	3.00	5.40	4.20	4.20	0	0							
Total Metals and Cyanide																
Aluminum																
Antimony																
Arsenic																
Barium																
Beryllium																
Cadmium	mg/kg	dw	2	1.10	4.80	2.95	2.95	0	0							
Calcium	mg/kg	dw	2	190,000	309,000	249,500	249,500	0	0							
Chromium	mg/kg	dw	2	18.9	67.4	43.2	43.2	0	0							
Cobalt																
Copper	mg/kg	dw	2	77.6	135	106	106	0	0							
Iron																
Lead	mg/kg	dw	2	206	325	266	266	0	0							
Magnesium	mg/kg	dw	2	8,740	9,030	8,885	8,885	0	0							
Manganese																
Mercury	mg/kg	dw	2	3.60	60.7	32.2	32.2	0	0							
Nickel	mg/kg	dw	2	20.6	42.6	31.6	31.6	0	0							
Potassium																
Selenium																
Silver																
Sodium																
Thallium																
Vanadium																
Zinc	mg/kg	dw	2	148	264	206	206	0	0							
Volatile Organic Compounds																
Benzene	µg/kg	dw	1	16,000	16,000	16,000	16,000					1	1,500	1,500	1,500	1,500
Toluene	µg/kg	dw	2	1,100	17,000	9,050	9,050	0	0							
Ethylbenzene	µg/kg	dw	1	1,700	1,700	1,700	1,700					1	13,000	13,000	13,000	13,000
Styrene																
Xylene (Total)	µg/kg	dw	1	43,000	43,000	43,000	43,000					1	1,500	1,500	1,500	1,500
Chlorobenzene	µg/kg	dw	1	72,000	72,000	72,000	72,000					1	1,500	1,500	1,500	1,500
1,2-Dichlorobenzene	µg/kg	dw	1	160,000	160,000	160,000	160,000					1	1,500	1,500	1,500	1,500
1,3-Dichlorobenzene	µg/kg	dw										2	1,500	13,000	7,250	7,250
1,4-Dichlorobenzene	µg/kg	dw	1	300,000	300,000	300,000	300,000					1	1,500	1,500	1,500	1,500
Dichlorobenzene, non-specific	µg/kg	dw	1	460,000	460,000	460,000	460,000					1	1,500	1,500	1,500	1,500
1,2,3-Trichlorobenzene	µg/kg	dw										2	1,500	13,000	7,250	7,250

Table G1-20. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
1,2,4-Trichlorobenzene	µg/kg	dw										2	1,500	13,000	7,250	7,250
1,3,5-Trichlorobenzene	µg/kg	dw	1	160,000	160,000	160,000	160,000					1	1,500	1,500	1,500	1,500
Trichlorobenzene	µg/kg	dw	1	160,000	160,000	160,000	160,000					1	1,500	1,500	1,500	1,500
Chloromethane																
Bromomethane																
Chloroethane																
Methylene chloride																
1,1-Dichloroethane																
Chloroform																
1,2-Dichloroethane																
1,1,1-Trichloroethane																
Carbon tetrachloride																
Bromodichloromethane																
1,2-Dichloropropane																
Dibromochloromethane																
1,1,2-Trichloroethane																
Bromoform																
1,1,2,2-Tetrachloroethane																
Vinyl chloride																
1,1-Dichloroethene																
1,2-Dichloroethene (Total)																
cis-1,3-Dichloropropene																
trans-1,3-Dichloropropene																
Trichloroethene																
Tetrachloroethene																
Acetone																
2-Butanone																
2-Hexanone																
4-Methyl-2-pentanone																
Carbon disulfide																
Semivolatile Organic Compounds																
1,2,3,4-Tetrachlorobenzene	µg/kg	dw	1	8,600	8,600	8,600	8,600					1	6.6	6.6	6.60	6.60
Tetrachlorobenzene (mixed)	µg/kg	dw	1	5,100	5,100	5,100	5,100					1	7.4	7.4	7.40	7.40
Pentachloro benzene	µg/kg	dw	2	3.50	910	457	457	0	0							
Hexachlorobenzene	µg/kg	dw	2	9.50	1,900	955	955	0	0							
2-Chloronaphthalene																
Naphthalene	µg/kg	dw	1	50,000	50,000	50,000	50,000									
Acenaphthylene	µg/kg	dw	1	38,000	38,000	38,000	38,000									
Acenaphthene	µg/kg	dw	1	8,700	8,700	8,700	8,700									
Fluorene	µg/kg	dw	1	8,600	8,600	8,600	8,600									
Phenanthrene	µg/kg	dw	1	26,000	26,000	26,000	26,000									
Anthracene	µg/kg	dw	1	11,000	11,000	11,000	11,000									
2-Methylnaphthalene																
PAH-Low MW	µg/kg	dw	1	142,300	142,300	142,300	142,300									
Fluoranthene	µg/kg	dw	1	71,000	71,000	71,000	71,000									
Pyrene	µg/kg	dw	1	21,000	21,000	21,000	21,000									
Benz(a)anthracene	.g/kg	w		,900	,900	,900	,900									

Table G1-20. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Chrysene	µg/kg	dw	1	15,000	15,000	15,000	15,000									
Benzo(b)fluoranthene	µg/kg	dw										1	6,600	6,600	6,600	6,600
Benzo(k)fluoranthene	µg/kg	dw	1	3,400	3,400	3,400	3,400									
Total benzofluoranthenes (b + k)																
Benzo(a)pyrene	µg/kg	dw	1	6,000	6,000	6,000	6,000									
Indeno(1,2,3-cd)pyrene	µg/kg	dw	1	2,800	2,800	2,800	2,800									
Dibenz(a,h)anthracene	µg/kg	dw	1	2,400	2,400	2,400	2,400									
Benzo(g,h,i)perylene	µg/kg	dw	1	14,000	14,000	14,000	14,000									
PAH-High MW	µg/kg	dw	1	142,100	142,100	142,100	142,100									
Phenol																
2-Methylphenol																
4-Methylphenol																
2,4-Dimethylphenol																
2-Chlorophenol																
2,4-Dichlorophenol																
4-Chloro-3-methylphenol																
2,4,6-Trichlorophenol																
2,4,5-Trichlorophenol																
Pentachlorophenol																
2-Nitrophenol																
4-Nitrophenol																
2,4-Dinitrophenol																
2-Methyl-4,6-dinitrophenol																
Hexachloroethane																
Hexachlorobutadiene																
Hexachlorocyclopentadiene																
Bis(2-chloroethyl)ether																
4-Chlorophenyl-phenyl ether																
4-Bromophenyl-phenyl ether																
Bis(2-chloroethoxy)methane																
2,2'-Oxybis(1-chloropropane)																
Dimethylphthalate																
Diethylphthalate																
Di-n-butylphthalate																
Butylbenzylphthalate																
Bis(2-ethylhexyl)phthalate																
Di-n-octylphthalate																
Isophorone																
Dibenzofuran																
Carbazole																
Nitrobenzene																
N-nitroso-di-*n*-propylamine																
2-Nitroaniline																
3-Nitroaniline																
4-Nitroaniline																
2,6-Dinitrotoluene																
2,4-Dinitrotoluene																

Table G1-20. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
N-Nitrosodiphenylamine(1)																
4-Chloroaniline																
3,3-Dichlorobenzidine																
Pesticides/Polychlorinated Biphenyls																
alpha-BHC																
beta-BHC																
delta-BHC																
gamma-BHC (Lindane)																
Aldrin																
alpha-Chlordane																
gamma-Chlordane																
Dieldrin																
Endosulfan I																
Endosulfan II																
Endosulfan sulfate																
Endrin																
Endrin aldehyde																
Endrin ketone																
Heptachlor																
Heptachlor epoxide																
Methoxychlor																
4,4'-DDD																
4,4'-DDE																
4,4'-DDT																
Toxaphene																
Aroclor-1016	µg/kg	dw										2	66	74	70.0	70.0
Aroclor-1221	µg/kg	dw										2	66	74	70.0	70.0
Aroclor-1232	µg/kg	dw										2	66	74	70.0	70.0
Aroclor-1242	µg/kg	dw										2	66	74	70.0	70.0
Aroclor-1248	µg/kg	dw	1	390	390	390	390					1	66	66	66.0	66.0
Aroclor-1254	µg/kg	dw										2	66	74	70.0	70.0
Aroclor-1260	µg/kg	dw	1	190	190	190	190					1	66	66	66.0	66.0
Polychlorinated biphenyls	µg/kg	dw	1	580	580	580	580					1	66	66	66.0	66.0

Table G1-21. Summary Statistics for Lake Stratigraphy Sediment Samples Collected by Honeywell/PTI in 1992

			DETECTS									NON-DETECTS					
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skew ness	Kurto sis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median	Detection Frequency
Surface (0-5 cm)																	
Cadmium	mg/kg	dw	5	0.38	12.8	5.2	3.4	4.8	2.13	1.24	1.65	4	0.26	1.70	0.83	0.68	56%
Calcium	mg/kg	dw	9	99,800	343,000	192,533	172,000	82,016	27,339	1.12	0.20	0					100%
Chromium	mg/kg	dw	9	2.8	194	54	41	60	19.9	1.80	3.91	0					100%
Copper	mg/kg	dw	6	15	168	68	50	54	21.9	1.61	3.01	3	2.00	53.2	19.4	2.90	67%
Lead	mg/kg	dw	9	1.4	235	68	47	75	24.8	1.58	2.57	0					100%
Magnesium	mg/kg	dw	9	2,770	15,800	7,039	6,940	3,870	1,290	1.41	3.27	0					100%
Mercury	mg/kg	dw	4	1.0	4.4	2.8	2.9	1.7	0.83	-0.15	-4.61	5	0.09	1.00	0.32	0.16	44%
Nickel	mg/kg	dw	7	3.2	51	22	22	16	5.91	0.85	1.49	2	2.70	13.3	8.00	8.00	78%
Sodium	mg/kg	dw	3	1,080	2,850	1,943	1,900	886	511	0.22		0					100%
Zinc	mg/kg	dw	8	13	510	186	163	153	54.0	1.40	2.92	1	8.30	8.30	8.30	8.30	89%
Calcium carbonate	%	dw	9	28	91	57	49	22	7.40	0.72	-0.73	0					100%
Chloride-Calculated	mg/kg	ww	9	499	794	612	576	113	37.5	0.69	-1.11	0					100%
Chloride-Measured	mg/kg	dw	9	400	4,400	1,863	1,400	1,454	485	0.59	-1.07	0					100%
Percent moisture	%	ww	9	45	90	66	64	18	6.04	0.03	-1.99	0					100%
Sulfate	mg/kg	dw	9	130	7,500	2,551	590	3,018	1,006	0.82	-1.35	0					100%
Total organic carbon	%	dw	9	0.30	4.9	2.6	3.1	1.5	0.51	-0.28	-0.97	0					100%
Total solids	%	ww	9	10	56	34	36	18	6.04	-0.03	-1.99	0					100%
Lead-210	dpm/g		5	0.42	8.1	4.3	3.1	3.5	1.58	0.28	-2.78	0					100%
5-15 cm																	
Cadmium	mg/kg	dw	10	0.35	11	4.6	3.9	3.7	1.16	0.81	-0.49	5	0.26	0.58	0.36	0.34	67%
Calcium	mg/kg	dw	15	79,200	340,000	235,080	240,000	90,883	23,466	-0.46	-1.17	0					100%
Chromium	mg/kg	dw	15	1.4	292	74	47	89	23.1	1.39	1.21	0					100%
Copper	mg/kg	dw	11	4.3	170	74	58	53	15.9	0.65	-0.23	4	1.20	2.80	1.95	1.90	73%
Lead	mg/kg	dw	15	0.45	227	75	53	80	20.5	0.92	-0.59	0					100%
Magnesium	mg/kg	dw	15	2,440	16,300	5,993	4,130	4,704	1,214	1.53	0.82	0					100%
Mercury	mg/kg	dw	11	0.62	3.1	1.4	1.3	0.68	0.20	1.62	3.36	4	0.12	0.25	0.19	0.19	73%
Nickel	mg/kg	dw	13	2.1	80	28	26	24	6.65	0.77	0.21	2	2.80	4.60	3.70	3.70	87%
Zinc	mg/kg	dw	12	19	597	231	149	204	58.9	0.91	-0.42	3	5.80	6.20	5.97	5.90	80%
Calcium carbonate	%	dw	15	27	92	65	62	24	6.14	-0.31	-1.35	0					100%
Chloride-Calculated	mg/kg	ww	15	540	1,773	1,019	996	313	80.9	0.94	1.36	0					100%
Chloride-Measured	mg/kg	dw	15	460	4,400	1,762	1,400	1,267	327	1.12	0.51	0					100%
Percent moisture	%	ww	20	42	75	58	58	11	2.56	0.01	-1.67	0					100%

Table G1-21. (cont.)

			DETECTS									NON-DETECTS					
Analyte			N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skew ness	Kurto sis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median	Detection Frequency
Sulfate	mg/kg	dw	15	60	4,200	1,138	310	1,281	331	1.18	0.59	0					100%
Total organic carbon	%	dw	15	0.20	5.2	2.0	2.0	1.4	0.37	0.61	0.01	0					100%
Total solids	%	ww	15	25	58	42	45	12	3.03	-0.13	-1.70	0					100%
Cesium-137	dpm/g		3	0.15	0.51	0.30	0.23	0.19	0.11	1.39		2	0.03	0.04	0.04	0.04	60%
Lead-210	dpm/g		10	0.21	6.7	3.7	5.0	2.6	0.82	-0.46	-1.88	0					100%
Total Radium (alpha)	pCi/g		2	1.7	1.9	1.8	1.8	0.15	0.10			0					100%
0-15 cm																	
Cadmium	mg/kg	dw	15	0.35	13	4.8	3.8	3.9	1.00	0.89	-0.19	9	0.26	1.70	0.57	0.35	63%
Calcium	mg/kg	dw	24	79,200	343,000	219,125	210,000	88,375	18,039	0.06	-1.44	0					100%
Chromium	mg/kg	dw	24	1.4	292	66	44	79	16.1	1.54	1.85	0					100%
Copper	mg/kg	dw	17	4.3	170	72	57	51	12.5	0.84	-0.12	7	1.20	53.2	9.41	2.50	71%
Lead	mg/kg	dw	24	0.45	235	72	48	76	15.5	1.05	-0.11	0					100%
Magnesium	mg/kg	dw	24	2,440	16,300	6,385	4,700	4,353	888	1.33	0.64	0					100%
Mercury	mg/kg	dw	15	0.62	4.40	1.8	1.3	1.1	0.30	1.46	1.14	9	0.09	1.00	0.26	0.16	63%
Nickel	mg/kg	dw	20	2.1	80	26	24	21	4.74	0.91	0.70	4	2.70	13.3	5.85	3.70	83%
Sodium	mg/kg	dw	3	1,080	2,850	1,943	1,900	886	511	0.22		0					100%
Zinc	mg/kg	dw	20	13	597	213	158	182	40.8	1.05	0.13	4	5.80	8.30	6.55	6.05	83%
Calcium carbonate	%	dw	24	27	92	62	60	23	4.70	0.04	-1.43	0					100%
Chloride-Calculated	mg/kg	ww	24	499	1,773	866	806	324	66.1	1.14	1.39	0					100%
Chloride-Measured	mg/kg	dw	24	400	4,400	1,800	1,400	1,309	267	0.84	-0.40	0					100%
Percent moisture	%	ww	29	42	90	61	61	14	2.61	0.38	-0.98	0					100%
Sulfate	mg/kg	dw	24	60	7,500	1,668	355	2,158	440	1.56	1.57	0					100%
Total organic carbon	%	dw	24	0.20	5.2	2.2	2.3	1.5	0.30	0.26	-0.82	0					100%
Total solids	%	ww	24	10	58	39	41	15	2.99	-0.41	-1.09	0					100%
Cesium-137	dpm/g		3	0.15	0.51	0.30	0.23	0.19	0.11	1.39		2	0.03	0.04	0.04	0.04	60%
Lead-210	dpm/g		15	0.21	8.1	3.9	4.9	2.8	0.73	-0.01	-1.49	0					100%
Total Radium (alpha)	pCi/g		2	1.7	1.9	1.8	1.8	0.15	0.10			0					100%
15-30 cm																	
Cadmium	mg/kg	dw	10	0.43	37	20	19	11	3.42	-0.12	-0.02	5	0.29	0.38	0.34	0.36	67%
Calcium	mg/kg	dw	15	111,000	372,000	221,000	187,000	93,075	24,032	0.28	-1.70	0					100%
Chromium	mg/kg	dw	14	1.5	749	264	229	249	66.5	0.52	-0.74	1	4.70	4.70	4.70	4.70	93%
Copper	mg/kg	dw	12	6.8	273	149	165	92	26.7	-0.52	-0.94	3	2.30	3.40	2.97	3.20	80%
Lead	mg/kg	dw	14	0.61	306	150	190	115	30.8	-0.30	-1.73	1	0.27	0.27	0.27	0.27	93%
Magnesium	mg/kg	dw	15	2,620	9,770	5,310	5,090	2,531	654	0.66	-0.92	0					100%
Mercury	mg/kg	dw	9	0.52	70	31	4.4	34	11.4	0.28	-2.53	6	0.07	0.19	0.14	0.14	60%
Nickel	mg/kg	dw	12	4.1	221	80	67	68	19.6	0.83	0.07	3	2.80	3.00	2.90	2.90	80%
Sodium	mg/kg	dw	3	1,120	6,070	4,100	5,110	2,625	1,516	-1.48		0					100%
Zinc	mg/kg	dw	13	8.7	576	324	388	209	58.0	-0.61	-1.34	2	5.20	6.70	5.95	5.95	87%
Calcium carbonate	%	dw	15	31	91	59	51	24	6.16	0.28	-1.95	0					100%
Chloride-Calculated	mg/kg	ww	15	1,097	3,183	1,849	1,641	627	162	0.85	-0.32	0					100%

Table G1-21. (cont.)

Analyte			DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skew ness	Kurto sis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median	Detection Frequency
Chloride-Measured	mg/kg	dw	15	950	9,300	4,157	1,800	3,536	913	0.65	-1.56	0					100%
Percent moisture	%	ww	29	43	81	62	61	14	2.61	0.00	-1.71	0					100%
Sulfate	mg/kg	dw	15	70	2,100	579	260	608	157	1.48	1.47	0					100%
Total organic carbon	%	dw	15	0.28	6.3	2.8	3.6	2.1	0.53	0.01	-1.46	0					100%
Total solids	%	ww	15	20	56	39	41	14	3.65	-0.11	-1.84	0					100%
Cesium-137	dpm/g		11	0.04	2.7	0.70	0.48	0.74	0.22	2.24	5.89	3	0.03	0.04	0.04	0.04	79%
Lead-210	dpm/g		15	0.20	7.5	4.0	5.0	2.6	0.66	-0.29	-1.31	0					100%
Total Radium (alpha)	pCi/g		6	1.9	4.1	2.8	2.8	0.81	0.33	0.61	-0.47	0					100%
30-100 cm																	
Cadmium	mg/kg	dw	25	0.39	50	17	9.4	17	3.35	0.47	-1.27	11	0.28	0.60	0.40	0.41	69%
Calcium	mg/kg	dw	36	75,900	328,000	205,000	211,500	79,620	13,270	-0.04	-1.25	0					100%
Chromium	mg/kg	dw	35	1.5	646	151	25	187	31.6	1.10	0.02	1	7.70	7.70	7.70	7.70	97%
Copper	mg/kg	dw	30	19	374	123	91	94	17.2	0.86	-0.05	6	2.10	2.80	2.57	2.60	83%
Lead	mg/kg	dw	36	0.34	314	121	94	100	16.7	0.67	-0.70	0					100%
Magnesium	mg/kg	dw	36	2,770	19,600	7,439	6,220	4,623	771	1.08	0.55	0					100%
Mercury	mg/kg	dw	24	0.20	42	6.9	1.8	11	2.26	2.07	3.65	12	0.09	0.24	0.14	0.14	67%
Nickel	mg/kg	dw	32	2.3	149	52	26	47	8.35	1.03	-0.19	4	2.60	2.80	2.70	2.70	89%
Sodium	mg/kg	dw	9	1,990	13,000	6,902	7,240	3,922	1,307	0.29	-1.16	0					100%
Zinc	mg/kg	dw	30	51	609	263	246	179	32.8	0.37	-1.34	6	5.50	7.00	6.27	6.10	83%
Calcium carbonate	%	dw	43	20	90	52	49	21	3.16	0.49	-0.74	0					100%
Chloride-Calculated	mg/kg	ww	43	1,470	10,125	4,258	3,793	2,408	367	0.64	-0.72	0					100%
Chloride-Measured	mg/kg	dw	43	1,600	18,000	7,342	8,500	5,180	790	0.29	-1.35	0					100%
Percent moisture	%	ww	72	44	78	59	60	10	1.17	0.16	-1.24	0					100%
Sulfate	mg/kg	dw	36	70	1,200	342	230	315	52.5	1.73	1.96	7	30.0	60.0	50.0	50.0	84%
Total organic carbon	%	dw	43	0.28	5.6	2.5	2.5	1.5	0.22	0.10	-1.07	0					100%
Total solids	%	ww	36	24	57	42	40	10	1.64	-0.06	-1.28	0					100%
Cesium-137	dpm/g		12	0.09	1.2	0.63	0.74	0.36	0.10	-0.11	-0.89	13	0.04	0.17	0.09	0.08	48%
Lead-210	dpm/g		39	0.21	4.9	2.9	3.1	1.5	0.25	-0.53	-0.81	1	0.10	0.10	0.10	0.10	98%
Total Radium (alpha)	pCi/g		16	1.6	3.9	2.7	2.6	0.70	0.18	0.34	-0.77	0					100%

Table G1-21. (cont.)

			DETECTS									NON-DETECTS					
Analyte			N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skew ness	Kurto sis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median	Detection Frequency
100-200 cm																	
Cadmium	mg/kg	dw	10	0.45	65	14	1.1	25	7.75	1.72	1.49	15	0.29	0.52	0.39	0.38	40%
Calcium	mg/kg	dw	25	72,200	328,000	180,504	123,000	92,409	18,482	0.57	-1.49	0					100%
Chromium	mg/kg	dw	25	1.1	535	56	13	136	27.2	3.18	9.21	0					100%
Copper	mg/kg	dw	21	2.8	435	72	17	121	26.3	2.34	4.81	4	13.0	14.9	13.8	13.7	84%
Lead	mg/kg	dw	25	0.78	254	77	15	91	18.2	0.78	-1.04	0					100%
Magnesium	mg/kg	dw	25	3,050	17,000	8,300	8,650	3,062	612	0.28	1.93	0					100%
Mercury	mg/kg	dw	8	0.25	29	17	16	9.2	3.27	-0.45	0.27	17	0.11	0.22	0.14	0.12	32%
Nickel	mg/kg	dw	24	2.8	108	24	16	24	4.81	2.54	6.98	1	2.80	2.80	2.80	2.80	96%
Sodium	mg/kg	dw	9	3,970	19,700	11,691	12,400	5,191	1,730	-0.01	-0.98	0					100%
Zinc	mg/kg	dw	21	34	727	156	53	212	46.2	2.06	3.37	4	6.10	7.30	6.55	6.40	84%
Calcium carbonate	%	dw	32	16	90	43	30	26	4.54	0.92	-0.91	0					100%
Chloride-Calculated	mg/kg	ww	32	2,039	25,500	9,369	8,484	6,726	1,189	0.87	-0.14	0					100%
Chloride-Measured	mg/kg	dw	32	2,100	33,000	12,600	13,000	9,518	1,683	0.52	-0.93	0					100%
Percent moisture	%	ww	32	47	65	55	55	5.5	0.97	0.19	-1.02	0					100%
Sulfate	mg/kg	dw	18	30	470	137	60	145	34.2	1.25	0.09	14	20.0	50.0	31.4	30.0	56%
Total organic carbon	%	dw	32	0.30	10	2.5	2.4	1.8	0.31	2.03	7.19	0					100%
Total solids	%	ww	25	37	53	46	47	4.9	0.98	-0.28	-1.03	0					100%
200-300 cm																	
Cadmium	mg/kg	dw	8	0.37	1.4	0.77	0.56	0.45	0.16	0.59	-1.99	11	0.31	0.38	0.34	0.34	42%
Calcium	mg/kg	dw	19	62,400	313,000	218,811	220,000	66,742	15,312	-0.40	0.13	0					100%
Chromium	mg/kg	dw	19	1.9	29	11	8.0	7.8	1.80	1.06	0.12	0					100%
Copper	mg/kg	dw	10	2.5	203	41	20	60	19.0	2.58	7.28	9	3.50	11.0	8.04	8.10	53%
Lead	mg/kg	dw	19	0.76	195	19	5.9	44	10.0	4.00	16.7	0					100%
Magnesium	mg/kg	dw	19	2,980	17,400	8,578	7,500	4,214	967	0.83	-0.14	0					100%
Mercury	mg/kg	dw	5	2.9	51	30	37	18	8.23	-0.62	-0.20	14	0.06	0.18	0.12	0.13	26%
Nickel	mg/kg	dw	19	3.5	68	17	12	14	3.22	2.92	10.5	0					100%
Sodium	mg/kg	dw	9	7,780	25,900	17,480	18,600	6,193	2,064	-0.41	-1.06	0					100%
Zinc	mg/kg	dw	17	7.8	421	70	36	96	23.2	3.44	12.8	2	5.80	8.00	6.90	6.90	89%
Calcium carbonate	%	dw	20	22	90	60	61	18	4.12	-0.10	-0.36	0					100%
Chloride-Calculated	mg/kg	ww	20	3,164	47,146	23,739	26,249	15,893	3,554	-0.01	-1.62	0					100%
Chloride-Measured	mg/kg	dw	20	3,400	41,000	23,000	28,000	14,381	3,216	-0.21	-1.77	0					100%
Percent moisture	%	ww	20	46	58	50	50	3.1	0.70	1.21	1.52	0					100%
Sulfate	mg/kg	dw	18	30	1,200	523	400	437	103	0.41	-1.44	2	20.0	20.0	20.0	20.0	90%
Total organic carbon	%	dw	20	0.60	3.4	1.5	1.4	0.76	0.17	0.92	0.55	0					100%
Total solids	%	ww	19	42	54	50	50	3.1	0.72	-1.43	2.30	0					100%

Table G1-22. Summary Statistics for Onondaga Lake Phase 2A TCLP Results

Analyte	Units (TCLP[1])	Detection Frequency	Detection Limit	Maximum Detection	Maximum Location	Maximum Depth (cm)	Regulatory Level[2] (mg/L TCLP)
Total Metals and Cyanide							
Arsenic	mg/L	0/21	0.5				5.0
Barium	mg/L	11/21	0.5	3.5	S309	15 - 30	100.0
Cadmium	mg/L	0/21	0.1				1.0
Chromium	mg/L	0/21	0.5				5.0
Lead	mg/L	0/21	0.5				5.0
Total Mercury	mg/L	0/21	0.02				0.2
Selenium	mg/L	0/21	0.1				1.0
Silver	mg/L	0/21	0.5				5.0
Volatile Organic Compounds							
Benzene	mg/L	19/21	1.2E-02	0.24	S309	74 - 174	0.5
2-Butanone (MEK)	mg/L	4/21	9.3E-3~0.05	2.4E-02	S315	300 - 400	200.0
Carbon Tetrachloride	mg/L	0/21	2.5E-3~1.2E-2				0.5
Chlorobenzene	mg/L	18/21	2.5E-3~1.2E-2	14	S312	15 - 30	100.0
Chloroform	mg/L	0/21	2.5E-3~1.2E-2				6.0
1,2-Dichloroethane	mg/L	0/21	2.5E-3~1.2E-2				0.5
1,1-Dichloroethene	mg/L	0/21	2.5E-3~1.2E-2				0.7
Tetrachloroethene	mg/L	0/21	6E-4~1.2E-2				0.7
Trichloroethene	mg/L	0/21	2.5E-3~1.2E-2				0.5
Vinyl chloride	mg/L	0/21	5E-3~2.5E-2				0.2
Semivolatile Organic Compounds							
1,4-Dichlorobenzene	mg/L	14/21	0.01-0.1	8.6	S312	15 - 30	7.5
2,4-Dinitrotoluene	mg/L	0/21	0.01-0.1				0.13
Hexachlorobenzene	mg/L	0/21	0.01-0.1				0.13
Hexachlorobutadiene	mg/L	0/21	0.01-0.1				0.5
Hexachloroethane	mg/L	0/21	0.01-0.1				3.0
2-Methylphenol (o-Cresol)	mg/L	0/21	0.01-0.1				200.0
3- and 4-Methylphenol	mg/L	1/21	0.01-0.1	0.04	S312	300 - 400	200.0
Nitrobenzene	mg/L	0/21	0.01-0.1				2.0
Pentachlorophenol	mg/L	0/21	0.05-0.5				100.0
Pyridine	mg/L	0/21	0.05-0.5				5.0
2,4,5-Trichlorophenol	mg/L	0/21	0.05-0.5				400.0
2,4,6-Trichlorophenol	mg/L	0/21	0.01-0.1				2.0
Herbicides & Pesticides							
2,4-D	mg/L	0/21	0.1				10.0
Silvex	mg/L	0/21	0.01				1.0
gamma-BHC (Lindane)	mg/L	0/21	2.0E-04				0.4
Chlordane	mg/L	0/21	2.0E-03				0.03
Endrin	mg/L	1/21	5.0E-04	1.0E-04	S309	74 - 174	0.02
Heptachlor	mg/L	0/21	2.0E-04				8.0E-03
Heptachlor epoxide	mg/L	0/21	2.0E-04				8.0E-03
Methoxychlor	mg/L	0/21	2.0E-03				10.0
Toxaphene	mg/L	0/21	2.0E-03				0.5

Notes:

1. TCLP - Toxicity Characteristic Leaching Procedure
2. Regulatory Limit in accordance with 40 CFR Part 261.24 (Toxicity Characteristic).

Table G1-23. Summary Statistics for Tributary 5A Surface Sediment Samples Collected by Honeywell/O'Brien & Gere in 1991

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Total Metals and Cyanide																
Aluminum	mg/kg	dw	3	857	4,840	2,839	2,820	1,992	1,150	0.04		0				
Antimony	mg/kg	dw	2	31.2	38.5	34.9	34.9	5.16	3.65			1	31.8	31.8	31.8	31.8
Barium	mg/kg	dw	3	194	310	271	310	67.0	38.7	-1.73		0				
Beryllium	mg/kg	dw	3	1.35	2.06	1.72	1.76	0.36	0.21	-0.46		0				
Cadmium	mg/kg	dw	0									3	1.88	2.31	2.03	1.9
Calcium	mg/kg	dw	3	249,000	394,000	299,000	253,000	82,590	47,700	1.73		0				
Chromium	mg/kg	dw	3	33.8	2,380	1,039	704	1,208	698	1.15		0				
Cobalt	mg/kg	dw	3	5.73	546	226	125	284	164	1.39		0				
Copper	mg/kg	dw	3	49.6	191	111	91.3	72.7	41.9	1.11		0				
Cyanide	mg/kg	dw	1	2.89	2.89	2.89	2.89					2	0.64	1.56	1.1	1.1
Iron	mg/kg	dw	3	20,500	44,300	32,533	32,800	11,900	6,872	-0.10		0				
Lead	mg/kg	dw	3	119	4,100	1,451	133	2,294	1,325	1.73		0				
Magnesium	mg/kg	dw	3	3,320	16,500	11,107	13,500	6,908	3,988	-1.37		0				
Manganese	mg/kg	dw	3	162	1,450	621	251	719	415	1.70		0				
Mercury	mg/kg	dw	2	0.79	1.29	1.04	1.04	0.35	0.25			1	0.13	0.13	0.13	0.13
Potassium	mg/kg	dw	2	312	510	411	411	140	99			1	127	127	127	127
Selenium	mg/kg	dw	0									3	1.16	4.68	2.58	1.9
Silver	mg/kg	dw	2	1.64	2.38	2.01	2.01	0.52	0.37			1	1.25	1.25	1.25	1.25
Sodium	mg/kg	dw	3	702	2,260	1,279	874	854	493	1.65		0				
Thallium	mg/kg	dw	0									3	0.38	1.16	0.83	0.94
Vanadium	mg/kg	dw	3	27.3	925	410	278	463	267	1.18		0				
Zinc	mg/kg	dw	3	30.8	385	232	279	182	105	-1.09		0				
Volatile Organic Compounds																
Benzene	µg/kg	dw	2	19,000	25,000	22,000	22,000	4,243	3,000			4	6	16	8.5	6
Carbon disulfide	µg/kg	dw	1	16	16	16	16					2	16	2,400	1,208	1,208
Chlorobenzene	µg/kg	dw	1	82	82	82	82					2	16	2,400	1,208	1,208
Ethylbenzene	µg/kg	dw	2	1	500	251	251	353	250			1	16	16	16	16
Methylene chloride	µg/kg	dw	2	5	14	9.5	9.5	6.36	4.5			1	2,400	2,400	2,400	2,400
Toluene	µg/kg	dw	2	8,500	9,400	8,950	8,950	636	450			4	6	16	8.5	6
Xylene (Total)	µg/kg	dw	2	6,200	10,000	8,100	8,100	2,687	1,900			4	6	16	8.5	6
Semivolatile Organic Compounds																
1,2-Dichlorobenzene	µg/kg	dw	1	410	410	410	410					2	420	1,300	860	860
1,3-Dichlorobenzene	µg/kg	dw	1	190	190	190	190					2	420	1,300	860	860
1,4-Dichlorobenzene	µg/kg	dw	2	220	560	390	390	240	170			1	1,300	1,300	1,300	1,300
2,2'-Oxybis(1-chloropropa																
Benzoic Acid	µg/kg	dw	1	470	470	470	470					2	2,100	6,400	4,250	4,250
Dibenzofuran	µg/kg	dw	3	120	820	367	160	393	227	1.71		0				

Table G1-23. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Phenol	µg/kg	dw	1	980	980	980	980					2	420	1,000	710	710
2-Methylnaphthalene	µg/kg	dw	3	61	470	270	280	205	118	-0.21		0				
Acenaphthene	µg/kg	dw	2	100	450	275	275	247	175			1	1,300	1,300	1,300	1,300
Acenaphthylene	µg/kg	dw	1	210	210	210	210					2	420	1,300	860	860
Anthracene	µg/kg	dw	3	110	920	520	530	405	234	-0.11		0				
Benz(a)anthracene	.g/kg	dw	2	330	3,200	1,765	1,765	2,029	1,435			1	1,300	1,300	1,300	1,300
Benzo(a)pyrene	µg/kg	dw	3	160	2,900	1,127	320	1,538	888	1.71		0				
Benzo(b)fluoranthene	µg/kg	dw	2	480	5,200	2,840	2,840	3,338	2,360			1	1,300	1,300	1,300	1,300
Benzo(g,h,i)perylene	µg/kg	dw	2	180	1,900	1,040	1,040	1,216	860			1	1,300	1,300	1,300	1,300
Benzo(k)fluoranthene	µg/kg	dw	2	420	4,200	2,310	2,310	2,673	1,890			1	1,300	1,300	1,300	1,300
Chrysene	µg/kg	dw	3	260	4,300	1,640	360	2,304	1,330	1.73		0				
Dibenz(a,h)anthracene	µg/kg	dw	1	450	450	450	450					2	420	1,300	860	860
Fluoranthene	µg/kg	dw	3	540	6,100	2,393	540	3,210	1,853	1.73		0				
Fluorene	µg/kg	dw	2	98	610	354	354	362	256			1	1,300	1,300	1,300	1,300
Indeno(1,2,3-cd)pyrene	µg/kg	dw	2	200	2,100	1,150	1,150	1,344	950			1	1,300	1,300	1,300	1,300
Naphthalene	µg/kg	dw	3	200	3,400	1,533	1,000	1,665	961	1.29		0				
Phenanthrene	µg/kg	dw	3	310	3,900	1,577	520	2,015	1,163	1.71		0				
Pyrene	µg/kg	dw	3	570	7,600	2,923	600	4,050	2,338	1.73		0				
Pesticides/Polychlorinated Biphenyls																
Aroclor 1221	µg/kg	dw	0									3	100	3,100	1,150	250
Aroclor 1232	µg/kg	dw	0									3	100	3,100	1,150	250
Aroclor 1242	µg/kg	dw	0									3	100	3,100	1,150	250
Aroclor 1248	µg/kg	dw	1	3,300	3,300	3,300	3,300					2	100	250	175	175
Aroclor 1254	µg/kg	dw	2	220	2,300	1,260	1,260	1,471	1,040			1	250	250	250	250
Aroclor 1260	µg/kg	dw	0									3	200	6,200	2,217	250

Table G1-24. Summary Statistics for West Flume Sediment Samples Collected by Honeywell/PTI in 1992 and 1994

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
1992 (0-2 cm)																
Total solids	%	ww	0									0				
Methylmercury	µg/kg	dw	0									0				
Total Mercury	mg/kg	dw	3	28.6	40.9	35.7	37.6	6.37	3.68	-1.22		0				
1994 (0-15 cm)																
Total solids	%	ww	9	35.4	81.1	56.5	51.5	14.4	4.79	0.59	-0.24	0				
Methylmercury	µg/kg	dw	9	0.42	52.7	12.7	5.89	18.1	6.03	1.83	2.49	0				
Total Mercury	mg/kg	dw	9	0.74	89.2	25.6	13.3	32.2	10.7	1.52	0.92	0				
1994 (15-30 cm)																
Total solids	%	ww	5	16.8	66.1	49.9	55.5	19.5	8.73	-1.71	3.14	0				
Methylmercury	µg/kg	dw	4	2.23	33.9	13.7	9.28	14.2	7.10	1.46	1.97	1	0.16	0.16	0.16	0.16
Total Mercury	mg/kg	dw	5	0.35	20.1	10.5	11.0	7.00	3.13	-0.19	1.88	0				
1994 (30-100 cm)																
Total solids	%	ww	13	28.7	76.3	55.9	55.6	13.3	3.69	-0.46	0.07	0				
Methylmercury	µg/kg	dw	12	1.04	47.6	10.4	2.88	15.3	4.43	1.96	2.83	1	0.16	0.16	0.16	0.16
Total Mercury	mg/kg	dw	13	0.04	131	29.7	4.48	45.6	12.6	1.58	1.03	0				
1994 (100-200 cm)																
Total solids	%	ww	3	73.5	78.4	76.5	77.6	2.63	1.52	-1.55		0				
Methylmercury	µg/kg	dw	1	2.44	2.44	2.44	2.44					2	0.11	0.16	0.14	0.14
Total Mercury	mg/kg	dw	3	0.03	8.28	2.91	0.41	4.66	2.69	1.72		0				

Table G1-25. Summary Statistics for the East Flume Surface Sediment Samples Collected by Honeywell/O'Brien & Gere in 1993

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Calcium carbonate	%	dw	15	59.3	86.4	71.3	70.8	9.31	2.40	0.33	-1.44					
Chloride-Measured	mg/kg	dw	15	441	11,700	5,060	3,220	4,110	1,061	0.50	-1.39					
Percent clay	%	ww	15	1	5.2	2.59	2.4	1.44	0.37	0.56	-1.23					
Percent moisture	%	ww	15	46.9	87.4	74.0	78	10.5	2.72	-1.40	2.06					
Percent sand	%	ww	15	1.1	52	10.3	4.7	14.6	3.78	2.40	5.03					
Percent silt	%	ww	15	2	22.4	13.2	14.4	6.13	1.58	-0.48	-0.71					
Total organic carbon	%	dw	15	1.1	4.7	2.6	2.2	1.17	0.30	0.67	-0.67					
Total solids	%	ww	7	31.8	66.3	44.0	36.9	14.3	5.40	1.12	-0.81					
Total Metals and Cyanide																
Aluminum	mg/kg	dw	5	1,280	5,410	3,128	3,380	1,730	775	0.19	-1.66					
Antimony	mg/kg	dw										5	6.3	17.5	11.2	10.3
Arsenic	mg/kg	dw	5	8	18.8	12.0	10.9	4.16	1.86	1.32	1.92					
Barium	mg/kg	dw	5	144	247	200	227	49.6	22.2	-0.52	-3.14					
Beryllium	mg/kg	dw	4	0.11	0.43	0.32	0.36	0.14	0.07	-1.64	3.04	1	0.18	0.18	0.18	0.18
Cadmium	mg/kg	dw	2	0.73	0.91	0.82	0.82	0.13	0.09			13	0.91	2.5	1.49	1.5
Calcium	mg/kg	dw	15	181,000	355,000	290,000	297,000	49,221	12,709	-0.86	0.25					
Chromium	mg/kg	dw	15	8.1	35.8	19.3	19.3	9.31	2.40	0.41	-1.22					
Cobalt	mg/kg	dw	5	1.9	10.2	5.18	4.5	3.54	1.58	0.66	-1.14					
Copper	mg/kg	dw	15	8.8	87.2	35.8	38.5	23.4	6.03	0.90	0.35					
Cyanide	mg/kg	dw	5	0.56	7	2.71	1.3	2.66	1.19	1.38	1.20					
Iron	mg/kg	dw	5	2,520	11,300	6,384	6,570	3,614	1,616	0.33	-1.32					
Lead	mg/kg	dw	15	15.2	70.8	36.8	36.9	17.5	4.52	0.39	-0.86					
Magnesium	mg/kg	dw	15	6,160	25,400	12,735	12,000	5,417	1,399	1.31	1.39					
Manganese	mg/kg	dw	5	181	269	231	237	39.7	17.7	-0.32	-2.47					
Total mercury	mg/kg	dw	20	0.09	7.5	2.47	2.1	2.28	0.51	0.90	0.00	2	0.11	0.13	0.12	0.12
Nickel	mg/kg	dw	13	4.6	22.5	13.1	13.3	6.21	1.72	0.00	-1.34	2	3.9	4.5	4.2	4.2
Potassium	mg/kg	dw	5	193	1,010	615	676	326	146	-0.21	-1.39					
Selenium	mg/kg	dw	1	0.82	0.82	0.82	0.82					4	0.4	1.2	0.79	0.77
Silver	mg/kg	dw										5	0.98	2.7	1.74	1.6
Sodium	mg/kg	dw	15	987	8,240	4,566	3,160	2,782	718	0.13	-1.94					
Thallium	mg/kg	dw										5	0.44	1.3	0.82	0.69
Vanadium	mg/kg	dw	5	1.6	20.8	11.2	13.8	7.78	3.48	-0.17	-1.64					
Zinc	mg/kg	dw	15	95.4	643	230	224	143	36.8	1.82	4.35					
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw										5	23	5,600	1,146	36
1,1,2,2-Tetrachloroethane	µg/kg	dw										5	23	5,600	1,146	36
1,1,2-Trichloroethane	µg/kg	dw										5	23	5,600	1,146	36
1,1-Dichloroethane	µg/kg	dw										5	23	5,600	1,146	36
1,1-Dichloroethene	µg/kg	dw										5	23	5,600	1,146	36

Table G1-25. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
1,2-Dichloroethane	µg/kg	dw										5	23	5,600	1,146	36
1,2-Dichloroethene isomers (to	µg/kg	dw										5	23	5,600	1,146	36
1,2-Dichloropropane	µg/kg	dw										5	23	5,600	1,146	36
2-Butanone	µg/kg	dw										5	23	5,600	1,146	36
2-Hexanone	µg/kg	dw										5	23	5,600	1,146	36
4-Methyl-2-pentanone	µg/kg	dw										5	23	5,600	1,146	36
Acetone	µg/kg	dw										5	28	5,600	1,206	120
Benzene	µg/kg	dw	9	13	1,300	185	47	419	140	2.97	8.87	6	9	5,600	1,297	29.5
Bromodichloromethane	µg/kg	dw										5	23	5,600	1,146	36
Bromoform	µg/kg	dw										5	23	5,600	1,146	36
Bromomethane	µg/kg	dw										5	23	5,600	1,146	36
Carbon disulfide	µg/kg	dw										5	23	5,600	1,146	36
Carbon Tetrachloride	µg/kg	dw										5	23	5,600	1,146	36
Chlorobenzene	µg/kg	dw	15	7	36,000	4,850	77	12,447	3,214	2.40	4.35					
Chloroethane	µg/kg	dw										5	23	5,600	1,146	36
Chloroform	µg/kg	dw										5	23	5,600	1,146	36
Chloromethane	µg/kg	dw										5	23	5,600	1,146	36
Cis-1,3-dichloropropene	µg/kg	dw										5	23	5,600	1,146	36
Dibromochloromethane	µg/kg	dw										5	23	5,600	1,146	36
Ethylbenzene	µg/kg	dw	7	5	65	24.1	20	21.1	7.99	1.39	1.76	8	9	5,700	1,688	29.5
Methylene chloride	µg/kg	dw										5	23	5,600	1,146	36
Pentachlorobenzene	µg/kg	dw	10	10	67	30.4	28.5	18.7	5.90	0.83	-0.03					
Styrene	µg/kg	dw										5	23	5,600	1,146	36
Tetrachloroethene	µg/kg	dw										5	23	5,600	1,146	36
Toluene	µg/kg	dw	13	3	4,600	696	95	1,440	399	2.34	4.64	2	9	23	16	16
Trans-1,3-dichloropropene	µg/kg	dw										5	23	5,600	1,146	36
Trichloroethene	µg/kg	dw	1	5	5	5	5					4	24	5,600	1,426	40.5
Vinyl chloride	µg/kg	dw										5	23	5,600	1,146	36
Xylene isomers (total)	µg/kg	dw	12	6	15,000	2,550	265	5,171	1,493	2.10	3.08	3	12	36	23.7	23
Semivolatile Organic Compounds																
1,2,3,4-Tetrachlorobenzene	µg/kg	dw	10	28	240	104	85.5	73.5	23.2	0.91	-0.24					
1,2,3,5-Tetrachlorobenzene	µg/kg	dw										10	5.3	25	12.7	8.8
1,2,3-Trichlorobenzene	µg/kg	dw	6	9	3,700	787	37.5	1,470	600	2.17	4.74	4	9	23	14.8	13.5
1,2,4,5-Tetrachlorobenzene	µg/kg	dw	10	9	150	45.8	29	42.9	13.6	1.86	3.57					
1,2,4-Trichlorobenzene	µg/kg	dw	5	71	1,800	802	680	652	292	0.85	0.93	10	9	5,700	795	23
1,2,4-Trimethylbenzene	µg/kg	dw	1	6,400	6,400	6,400	6,400									
1,2-Dichlorobenzene	µg/kg	dw	15	18	120,000	9,842	500	30,675	7,920	3.79	14.5					
1,3,5-Trichlorobenzene	µg/kg	dw	9	5	15,000	2,086	110	4,960	1,653	2.76	7.79	1	23	23	23	23
1,3-Dichlorobenzene	µg/kg	dw	8	5	14,000	1,818	28	4,923	1,741	2.83	7.99	7	12	2,100	460	23
1,4-Dichlorobenzene	µg/kg	dw	15	33	160,000	12,494	410	40,967	10,578	3.82	14.7					
1-Iododecane	µg/kg	dw	1	700	700	700	700									
2,2'-Oxybis(1-chloropropane)	µg/kg	dw										5	110	840	342	220
2,4,5-Trichlorophenol	µg/kg	dw										5	270	2,100	850	540
2,4,6-Trichlorophenol	µg/kg	dw										5	110	840	342	220
2,4-Dichlorophenol	µg/kg	dw										5	110	840	342	220
2,4-Dimethylphenol	µg/kg	dw										5	110	840	342	220
2,4-Dinitrophenol	µg/kg	dw										5	270	2,100	850	540

Table G1-25. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
2,4-Dinitrotoluene	µg/kg	dw										5	110	840	342	220
2,6-Dinitrotoluene	µg/kg	dw										5	110	840	342	220
2-Chloronaphthalene	µg/kg	dw										5	110	840	342	220
2-Chlorophenol	µg/kg	dw										5	110	840	342	220
2-Methyl-4,6-dinitrophenol	µg/kg	dw										5	270	2,100	850	540
2-Methylphenol	µg/kg	dw										5	110	840	342	220
2-Nitroaniline	µg/kg	dw										5	270	2,100	850	540
2-Nitrophenol	µg/kg	dw										5	110	840	342	220
3,3'-Dichlorobenzidine	µg/kg	dw										5	110	840	342	220
3-Nitroaniline	µg/kg	dw										5	270	2,100	850	540
4-Bromophenyl-phenyl ether	µg/kg	dw										5	110	840	342	220
4-Chloro-3-methylphenol	µg/kg	dw										5	110	840	342	220
4-Chloroaniline	µg/kg	dw										5	110	840	342	220
4-Chlorophenyl-phenyl ether	µg/kg	dw										5	110	840	342	220
4-Methylphenol	µg/kg	dw	2	200	250	225	225	35.4	25			3	110	330	216.67	210
4-Nitroaniline	µg/kg	dw										5	270	2,100	850	540
4-Nitrophenol	µg/kg	dw										5	270	2,100	850	540
Bis(2-chloroethoxy)methane	µg/kg	dw										5	110	840	342	220
Bis(2-chloroethyl)ether	µg/kg	dw										5	110	840	342	220
bis(2-Ethylhexyl)phthalate	µg/kg	dw	5	240	460	338	310	93.6	41.9	0.46	-2.11					
Butylbenzyl phthalate	µg/kg	dw										5	110	840	342	220
Carbazole	µg/kg	dw	2	54	390	222	222	238	168			3	110	840	427	330
Dibenzofuran	µg/kg	dw	2	120	200	160	160	56.6	40			3	110	840	427	330
Diethyl phthalate	µg/kg	dw										5	110	840	342	220
Dimethyl phthalate	µg/kg	dw										5	110	840	342	220
Di-n-butyl phthalate	µg/kg	dw										5	110	840	342	220
Hexachlorobenzene	µg/kg	dw	10	37	250	110.6	80	78.1	24.7	0.92	-0.70	5	110	840	342	220
Hexachlorobutadiene	µg/kg	dw										5	110	840	342	220
Hexachlorocyclopentadiene	µg/kg	dw										5	110	840	342	220
Hexachloroethane	µg/kg	dw										5	110	840	342	220
Isophorone	µg/kg	dw										5	110	840	342	220
Nitrobenzene	µg/kg	dw										5	110	840	342	220
N-nitroso-di-n-propylamine	µg/kg	dw										5	110	840	342	220
N-Nitrosodiphenylamine	µg/kg	dw										5	110	840	342	220
Pentachlorophenol	µg/kg	dw										5	270	2,100	850	540
Phenol	µg/kg	dw	3	240	3,300	1,340	480	1,702	982	1.69		2	110	330	220	220
1-Methylnaphthalene	µg/kg	dw	5	7	4,600	2,027	2,300	1,781	796	0.50	-0.12					
2-Methylnaphthalene	µg/kg	dw	4	71	710	408	425	264	132	-0.37	1.02	1	110	110	110	110
Acenaphthene	µg/kg	dw	2	66	150	108	108	59.4	42			3	110	840	427	330
Acenaphthylene	µg/kg	dw	2	61	140	101	101	55.9	39.5			3	110	840	427	330
Anthracene	µg/kg	dw	1	120	120	120	120					4	110	840	375	275
Benz(a)anthracene	g/kg	dw	5	63	460	178	110	162	72.3	1.99	4.07					
Benzo(a)pyrene	µg/kg	dw	5	74	370	160	110	121	54.0	1.95	3.94					
Benzo(b)fluoranthene	µg/kg	dw	5	100	380	200	160	112	49.9	1.34	1.49					
Benzo(g,h,i)perylene	µg/kg	dw	5	40	220	91.4	57	74.2	33.2	1.92	3.76					
Benzo(k)fluoranthene	µg/kg	dw	5	96	320	175.2	150	86.5	38.7	1.56	2.79					

Table G1-25. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Chrysene	µg/kg	dw	5	100	500	232	170	156.75	70.1	1.77	3.40					
Dibenz(a,h)anthracene	µg/kg	dw										5	110	840	342	220
Fluoranthene	µg/kg	dw	5	140	860	364	260	290	130	1.78	3.26					
Fluorene	µg/kg	dw	5	28	600	356	390	235	105	-0.54	-1.19					
Indeno(1,2,3-cd)pyrene	µg/kg	dw	5	41	190	86	55	60.9	27.2	1.79	3.17					
Naphthalene	µg/kg	dw	5	71	8,900	2,716	890	3,722	1,665	1.59	2.17					
Phenanthrene	µg/kg	dw	5	70	620	322	240	223	99.7	0.45	-1.52					
Pyrene	µg/kg	dw	5	170	800	380	290	244	109	1.80	3.63					
Pesticides and Polychorinated Biphenyls																
4,4'-DDD	µg/kg	dw										5	7.4	15	11.4	12
4,4'-DDE	µg/kg	dw										5	7.4	15	11.4	12
4,4'-DDT	µg/kg	dw										5	7.4	15	11.4	12
Aldrin	µg/kg	dw										5	3.8	7.9	5.84	6
alpha-BHC	µg/kg	dw										5	3.8	7.9	5.84	6
alpha-Chlordane	µg/kg	dw										5	3.8	7.9	5.84	6
beta-BHC	µg/kg	dw										5	3.8	7.9	5.84	6
delta-BHC	µg/kg	dw										5	3.8	7.9	5.84	6
Dieldrin	µg/kg	dw										5	7.4	15	11.4	12
Endosulfan I	µg/kg	dw										5	3.8	7.9	5.84	6
Endosulfan II	µg/kg	dw										5	7.4	15	11.4	12
Endosulfan sulfate	µg/kg	dw										5	7.4	15	11.4	12
Endrin	µg/kg	dw										5	7.4	15	11.4	12
Endrin aldehyde	µg/kg	dw										5	7.4	15	11.4	12
Endrin ketone	µg/kg	dw										5	7.4	15	11.4	12
gamma-BHC (Lindane)	µg/kg	dw										5	3.8	7.9	5.84	6
gamma-Chlordane	µg/kg	dw										5	3.8	7.9	5.84	6
Heptachlor	µg/kg	dw										5	3.8	7.9	5.84	6
Heptachlor epoxide	µg/kg	dw										5	3.8	7.9	5.84	6
Methoxychlor	µg/kg	dw										5	38	79	58.4	60
Toxaphene	µg/kg	dw										5	380	790	584	600
Aroclor 1016	µg/kg	dw										15	31	150	82.3	78
Aroclor 1221	µg/kg	dw										15	31	310	122	81
Aroclor 1232	µg/kg	dw										15	31	150	82.3	78
Aroclor 1242	µg/kg	dw										15	31	150	82.3	78
Aroclor 1248	µg/kg	dw	9	39	130	79.8	83	32.9	11.0	0.30	-1.41	6	53	150	104	99
Aroclor 1254	µg/kg	dw										15	31	150	82.3	78
Aroclor 1260	µg/kg	dw	7	35	180	92.4	74	59.8	22.6	0.82	-1.22	8	53	150	98	79.5

Table G1-26. Summary Statistics for the West Flume Surface Sediments Collected by Honeywell/Parsons as part of the LCP RI in 1995

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Choride-extractable	mg/L		0									7	4.1	20.7	11.4	10.8
Percent moisture	%	ww	9	16.8	58.3	37.3	37.6	17.1	5.70	-0.05	-2.04	0				
pH	pH		8	7.52	8.2	7.94	7.99	0.22	0.08	-0.88	0.67	0				
Sulfate	mg/kg		8	401	5,580	2,248	936	2,110	746	0.77	-1.60	0				
Total organic carbon	mg/kg		8	5,580	18,300	11,726	11,750	4,573	1,617	0.12	-1.16	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	8	2,180	5,050	3,080	2,945	933	330	1.43	2.55	0				
Antimony	mg/kg	dw	8	0.99	2.5	1.67	1.65	0.56	0.20	0.41	-1.14	0				
Arsenic	mg/kg	dw	8	4	13.6	8.43	8.40	3.38	1.20	0.12	-1.26	0				
Barium	mg/kg	dw	8	27.1	110	73.3	81.6	33.6	11.9	-0.44	-1.69	0				
Beryllium	mg/kg	dw	2	0.37	0.38	0.38	0.38	0.01	0.00			0				
Cadmium	mg/kg	dw	2	0.57	0.61	0.59	0.59	0.03	0.02			0				
Calcium	mg/kg	dw	8	160,000	224,000	192,500	194,500	22,097	7,813	-0.20	-1.01	0				
Chromium	mg/kg	dw	8	11.3	37.8	18.6	14.9	9.29	3.28	1.50	1.85	0				
Cobalt	mg/kg	dw	8	2.7	8.4	4.46	3.80	2.00	0.71	1.22	0.93	0				
Copper	mg/kg	dw	8	31	219	73.5	64.6	60.7	21.5	2.47	6.56	0				
Iron	mg/kg	dw	8	5,950	16,000	10,536	9,540	3,748	1,325	0.44	-1.45	0				
Lead	mg/kg	dw	8	24	84.8	59.3	64.2	18.7	6.60	-0.84	0.91	0				
Magnesium	mg/kg	dw	8	6,410	20,500	11,539	10,335	4,790	1,693	0.89	0.22	0				
Manganese	mg/kg	dw	8	235	395	305	292	67.7	23.9	0.27	-2.10	0				
Mercury	mg/kg	dw	8	0.55	48	20.9	25.8	17.5	6.18	0.04	-1.23	0				
Methylmercury	ug/kg	dw	5	1.18	11.3	8.12	9.35	4.13	1.85	-1.64	2.73	0				
Nickel	mg/kg	dw	8	16.1	89.5	29.0	20.0	24.8	8.76	2.69	7.39	0				
Potassium	mg/kg	dw	0									8	382	1,260	627	546
Selenium	mg/kg	dw	6	0.65	2	1.28	1.05	0.58	0.23	0.66	-1.71	2	0.5	0.69	0.60	0.60
Silver	mg/kg	dw	0									8	0.23	0.44	0.32	0.33
Sodium	mg/kg	dw	8	433	2,280	1,423	1,585	670	237	-0.43	-1.19	0				
Thallium	mg/kg	dw	0									8	1.2	2.2	1.6	1.6
Vanadium	mg/kg	dw	8	6.7	15.5	9.45	8.8	2.58	0.91	2.19	5.86	0				
Zinc	mg/kg	dw	8	58.8	178	112	119	38.1	13.5	0.29	-0.11	0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									8	12	28	17.5	15
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									8	12	28	17.5	15
1,1,2-Trichloroethane	µg/kg	dw	0									8	12	28	17.5	15
1,1-Dichloroethane	µg/kg	dw	0									8	12	28	17.5	15
1,1-Dichloroethene	µg/kg	dw	0									8	12	28	17.5	15
1,2-Dichloroethane	µg/kg	dw	0									8	12	28	17.5	15

Table G1-26. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
1,2-Dichloropropane	µg/kg	dw	0									8	12	28	17.5	15
2-Butanone	µg/kg	dw	0									8	12	28	17.5	15
2-Hexanone	µg/kg	dw	0									8	12	28	17.5	15
4-Methyl-2-pentanone	µg/kg	dw	0									8	12	28	17.5	15
Acetone	µg/kg	dw	0									8	12	28	17.5	15
Benzene	µg/kg	dw	0									8	12	28	17.5	15
Bromodichloromethane	µg/kg	dw	0									8	12	28	17.5	15
Bromoform	µg/kg	dw	0									8	12	28	17.5	15
Bromomethane	µg/kg	dw	0									8	12	28	17.5	15
Carbon disulfide	µg/kg	dw	0									8	12	28	17.5	15
Carbon Tetrachloride	µg/kg	dw	0									8	12	28	17.5	15
Chlorobenzene	µg/kg	dw	0									8	12	28	17.5	15
Chloroethane	µg/kg	dw	0									8	12	28	17.5	15
Chloroform	µg/kg	dw	0									8	12	28	17.5	15
Chloromethane	µg/kg	dw	0									8	12	28	17.5	15
Cis-1,3-dichloropropene	µg/kg	dw	0									8	12	28	17.5	15
Dibromochloromethane	µg/kg	dw	0									8	12	28	17.5	15
Ethylbenzene	µg/kg	dw	0									8	12	28	17.5	15
Methylene chloride	µg/kg	dw	2	1	2	1.5	1.5	0.71	0.5			6	12	28	18	15
Styrene	µg/kg	dw	0									8	12	28	17.5	15
Tetrachloroethene	µg/kg	dw	0									8	12	28	17.5	15
Toluene	µg/kg	dw	0									8	12	28	17.5	15
Trans-1,3-dichloropropene	µg/kg	dw	0									8	12	28	17.5	15
Trichloroethene	µg/kg	dw	0									8	12	28	17.5	15
Vinyl chloride	µg/kg	dw	0									8	12	28	17.5	15
Xylene (Total)	µg/kg	dw	0									8	12	28	17.5	15
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	0									8	390	1,200	693	660
1,2-Dichlorobenzene	µg/kg	dw	3	34	61	50.7	57	14.6	8.41	-1.59		5	390	1,200	762	780
1,3-Dichlorobenzene	µg/kg	dw	0									8	390	1,200	693	660
1,4-Dichlorobenzene	µg/kg	dw	2	53	55	54	54	1.41	1			6	390	1,200	703	610
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									8	390	1,200	693	660
2,4,5-Trichlorophenol	µg/kg	dw	0									8	950	3,000	1,693	1,600
2,4,6-Trichlorophenol	µg/kg	dw	0									8	390	1,200	693	660
2,4-Dichlorophenol	µg/kg	dw	0									8	390	1,200	693	660
2,4-Dimethylphenol	µg/kg	dw	0									8	390	1,200	693	660
2,4-Dinitrophenol	µg/kg	dw	0									8	950	3,000	1,693	1,600
2,4-Dinitrotoluene	µg/kg	dw	0									8	390	1,200	693	660
2,6-Dinitrotoluene	µg/kg	dw	0									8	390	1,200	693	660
2-Chloronaphthalene	µg/kg	dw	0									8	390	1,200	693	660
2-Chlorophenol	µg/kg	dw	0									8	390	1,200	693	660
2-Methyl-4,6-dinitrophenol	µg/kg	dw	0									6	950	3,000	1,858	1,850
2-Methylphenol	µg/kg	dw	0									8	390	1,200	693	660
2-Nitroaniline	µg/kg	dw	0									8	950	3,000	1,693	1,600
2-Nitrophenol	µg/kg	dw	0									8	390	1,200	693	660
3,3-Dichlorobenzidine	µg/kg	dw	0									8	390	1,200	693	660

Table G1-26. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
3-Nitroaniline	µg/kg	dw	0									7	990	3,000	1,799	1,800
4,6-Dinitro-2-methylphenol	µg/kg	dw	0									2	990	1,400	1,195	1,195
4-Bromophenyl-phenyl ether	µg/kg	dw	0									8	390	1,200	693	660
4-Chloro-3-methylphenol	µg/kg	dw	0									8	390	1,200	693	660
4-Chloroaniline	µg/kg	dw	0									8	390	1,200	693	660
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									8	390	1,200	693	660
4-Methylphenol	µg/kg	dw	0									8	390	1,200	693	660
4-Nitroaniline	µg/kg	dw	0									8	950	3,000	1,693	1,600
4-Nitrophenol	µg/kg	dw	0									8	950	3,000	1,693	1,600
Bis(2-chloroethoxy)methane	µg/kg	dw	0									8	390	1,200	693	660
Bis(2-chloroethyl)ether	µg/kg	dw	0									8	390	1,200	693	660
Bis(2-ethylhexyl)phthalate	µg/kg	dw	2	460	1,900	1,180	1,180	1,018	720			6	410	1,000	658	660
Butylbenzylphthalate	µg/kg	dw	1	20	20	20	20					7	390	1,200	733	730
Carbazole	µg/kg	dw	6	53	620	296	300	234	95.6	0.24	-1.92	2	410	440	425	425
Dibenzofuran	µg/kg	dw	6	24	150	70.5	61.5	47.0	19.2	1.00	0.49	2	410	440	425	425
Diethylphthalate	µg/kg	dw	2	10	23	16.5	16.5	9.19	6.5			6	390	1,200	728	685
Dimethylphthalate	µg/kg	dw	0									8	390	1,200	693	660
Di-n-butylphthalate	µg/kg	dw	0									8	390	1,200	693	660
Di-n-octylphthalate	µg/kg	dw	2	55	350	203	203	209	148			6	410	1,000	658	660
Hexachlorobenzene	µg/kg	dw	5	97	820	335	260	286	128	1.67	3.03	3	390	1,200	790	780
Hexachlorobutadiene	µg/kg	dw	0									8	390	1,200	693	660
Hexachlorocyclopentadiene	µg/kg	dw	0									8	390	1,200	693	660
Hexachloroethane	µg/kg	dw	0									8	390	1,200	693	660
Isophorone	µg/kg	dw	0									8	390	1,200	693	660
Nitrobenzene	µg/kg	dw	0									8	390	1,200	693	660
N-nitroso-di-n-propylamine	µg/kg	dw	0									8	390	1,200	693	660
N-Nitrosodiphenylamine	µg/kg	dw	0									8	390	1,200	693	660
Pentachlorophenol	µg/kg	dw	1	130	130	130	130					7	950	3,000	1,734	1,800
Phenol	µg/kg	dw	0									8	390	1,200	693	660
Phenols	µg/kg	dw	8	0.82	5.39	1.78	1.31	1.51	0.53	2.50	6.55	0				
2-Methylnaphthalene	µg/kg	dw	3	25	61	43.3	44	18.0	10.4	-0.17		5	390	1,200	634	440
Acenaphthene	µg/kg	dw	5	31	280	115	110	99.6	44.5	1.50	2.49	3	410	730	527	440
Acenaphthylene	µg/kg	dw	8	11	180	95.6	94	59.1	20.9	0.20	-0.90	0				
Anthracene	µg/kg	dw	8	20	530	210	142	195	68.9	0.60	-1.33	0				
Benz(a)anthracene	.g/kg	dw	8	68	2,000	842	570	798	282	0.48	-1.80	0				
Benzo(a)pyrene	µg/kg	dw	8	100	2,700	1,103	720	1,089	385	0.67	-1.39	0				
Benzo(b)fluoranthene	µg/kg	dw	8	120	4,700	1,700	1,120	1,685	596	0.84	-0.49	0				
Benzo(g,h,i)perylene	µg/kg	dw	2	41	90	65.5	65.5	34.6	24.5			6	410	1,200	785	755
Benzo(k)fluoranthene	µg/kg	dw	8	74	3,800	1,334	875	1,389	491	0.89	-0.44	0				
Chrysene	µg/kg	dw	8	98	2,700	1,046	650	999	353	0.70	-1.16	0				
Dibenz(a,h)anthracene	µg/kg	dw	1	100	100	100	100					7	390	1,200	680	590
Fluoranthene	µg/kg	dw	8	220	5,600	2,269	1,525	2,153	761.170	0.53	-1.61	0				
Fluorene	µg/kg	dw	5	27	240	126	140	79.4	35.5	0.38	0.49	3	410	730	527	440
Indeno(1,2,3-cd)pyrene	µg/kg	dw	7	31	480	208	110	181	68.5	0.59	-1.73	1	390	390	390	390
Naphthalene	µg/kg	dw	4	16	110	66.3	69.5	50.8	25.4	-0.06	-5.68	4	410	1,200	695	585
Phenanthrene	µg/kg	dw	8	52	2,200	824	485	837	296	0.65	-1.32	0				
Pyrene	µg/kg	dw	8	180	4,700	1,870	1,250	1807.23151	639	0.57	-1.50	0				

Table G1-26. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	DETECTS Minimum Detection	DETECTS Maximum Detection	DETECTS Mean	DETECTS Median	DETECTS Standard Deviation	DETECTS Standard Error	DETECTS Skewness	DETECTS Kurtosis	NON-DETECTS N	NON-DETECTS Minimum Detection Limit	NON-DETECTS Maximum Detection Limit	NON-DETECTS Mean	NON-DETECTS Median
Pesticides/Polychlorinated Biphenyls																
4,4'-DDD	µg/kg	dw	0									8	3.9	25	7.58	5.15
4,4'-DDE	µg/kg	dw	0									8	3.9	25	7.58	5.15
4,4'-DDT	µg/kg	dw	0									8	3.9	25	7.58	5.15
Aldrin	µg/kg	dw	0									8	2	13	3.93	2.65
alpha-BHC	µg/kg	dw	0									8	2	13	3.93	2.65
alpha-Chlordane	µg/kg	dw	0									7	2	13	4.03	2.3
beta-BHC	µg/kg	dw	0									8	2	13	3.93	2.65
delta-BHC	µg/kg	dw	0									8	2	13	3.93	2.65
Dieldrin	µg/kg	dw	0									7	3.9	25	7.77	4.4
Endosulfan I	µg/kg	dw	0									8	2	13	3.93	2.65
Endosulfan II	µg/kg	dw	0									8	3.9	25	7.58	5.15
Endosulfan sulfate	µg/kg	dw	0									8	3.9	25	7.58	5.15
Endrin	µg/kg	dw	0									8	3.9	25	7.58	5.15
Endrin aldehyde	µg/kg	dw	0									8	3.9	25	7.58	5.15
Endrin ketone	µg/kg	dw	0									8	3.9	25	7.58	5.15
gamma-BHC (Lindane)	µg/kg	dw	0									8	2	13	3.93	2.65
gamma-Chlordane	µg/kg	dw	0									8	2	13	3.93	2.65
Heptachlor	µg/kg	dw	0									8	2	13	3.93	2.65
Heptachlor epoxide	µg/kg	dw	0									8	2	13	3.93	2.65
Methoxychlor	µg/kg	dw	0									8	20	130	39.3	26.5
Toxaphene	µg/kg	dw	0									8	200	1,300	393	265
Aroclor 1016	µg/kg	dw	0									8	39	250	75.8	51.5
Aroclor 1221	µg/kg	dw	0									8	80	510	155	105
Aroclor 1232	µg/kg	dw	0									8	39	250	75.8	51.5
Aroclor 1242	µg/kg	dw	0									8	39	250	75.8	51.5
Aroclor 1248	µg/kg	dw	0									8	39	250	75.8	51.5
Aroclor 1254	µg/kg	dw	8	16	320	70.4	33.5	102	35.9	2.74	7.62	0				
Aroclor 1260	µg/kg	dw	0									8	39	250	75.8	51.5

Table G1-27. Summary Statistics for Ley Creek and Branches Surface Sediment Samples Collected by NYSDEC in 1996/1997

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Total organic carbon	mg/kg		8	15,100	366,000	98,763	62,350	114,740	40,567	2.23	5.40	0				
Total solids	%		8	16.4	81.4	61.4	63.5	21.6	7.64	-1.38	2.17	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	32	2,160	25,900	7,184	5,655	4,723	835	2.17	6.88	0				
Antimony	mg/kg	dw	9	0.77	27.6	6.65	1.70	9.66	3.22	1.81	2.14	23	0.62	3.7	0.90	0.76
Arsenic	mg/kg	dw	31	1.1	22.1	7.68	5.40	5.62	1.01	1.24	0.72	1	0.51	0.51	0.51	0.51
Barium	mg/kg	dw	32	11.2	316	94.0	83.6	68.8	12.2	1.60	2.86	0				
Beryllium	mg/kg	dw	32	0.14	1.2	0.44	0.35	0.27	0.05	1.75	2.68	0				
Cadmium	mg/kg	dw	30	0.08	594	21.1	0.66	108	19.8	5.48	30.0	2	0.05	0.05	0.05	0.05
Calcium	mg/kg	dw	32	8,100	231,000	76,563	57,800	59,909	10,591	1.29	0.72	0				
Chromium	mg/kg	dw	32	3.3	6,290	251	20.7	1,107	196	5.58	31.4	0				
Cobalt	mg/kg	dw	32	1.4	15.8	6.63	6.35	3.22	0.57	1.14	1.66	0				
Copper	mg/kg	dw	32	3.1	1,170	103	39.7	212	37.5	4.48	22.1	0				
Cyanide	mg/kg	dw	3	1.6	22.5	11.1	9.1	10.6	6.11	0.81		26	0.58	3	0.85	0.75
Iron	mg/kg	dw	32	5,860	36,100	16,378	14,600	7,637	1,350	1.36	1.43	0				
Lead	mg/kg	dw	32	0.94	1,170	116	43.3	224	39.5	3.84	16.6	0				
Magnesium	mg/kg	dw	32	4,160	27,600	13,194	12,950	6,876	1,216	0.38	-0.78	0				
Manganese	mg/kg	dw	24	151	1,840	359	290	326	66.5	4.40	20.7	0				
Mercury	mg/kg	dw	17	0.07	0.52	0.15	0.12	0.10	0.03	2.90	10.1	15	0.05	0.29	0.08	0.06
Nickel	mg/kg	dw	32	3.8	1,460	67.0	17.6	255	45.0	5.63	31.8	0				
Potassium	mg/kg	dw	32	495	8,430	1,752	1,325	1,525	270	3.04	11.7	0				
Selenium	mg/kg	dw	6	0.44	2.2	1.07	0.83	0.67	0.27	1.11	0.35	26	0.32	3.4	0.56	0.41
Silver	mg/kg	dw	24	0.12	9.3	1.28	0.53	2.12	0.43	3.10	9.84	8	0.09	1.1	0.28	0.17
Sodium	mg/kg	dw	32	128	4,160	629	373	902	159	3.47	11.7	0				
Thallium	mg/kg	dw	7	0.57	1.8	0.98	0.88	0.44	0.17	1.19	0.97	25	0.44	3.2	0.69	0.57
Vanadium	mg/kg	dw	32	3.9	50.3	18.6	17	9.79	1.73	1.41	2.89	0				
Zinc	mg/kg	dw	16	39.2	5,050	577	160	1,226	306	3.66	14.0	0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									29	12	87	19.4	15
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									29	12	87	19.4	15
1,1,2-Trichloroethane	µg/kg	dw	0									29	12	87	19.4	15
1,1-Dichloroethane	µg/kg	dw	1	3	3	3	3					28	12	87	19.6	15
1,1-Dichloroethene	µg/kg	dw	0									29	12	87	19.4	15
1,2-Dichloroethane	µg/kg	dw	0									29	12	87	19.4	15
1,2-Dichloroethene (Total)	µg/kg	dw	5	2	13	7	8	4.24	1.90	0.36	-0.27	24	12	87	20.7	15
1,2-Dichloropropane	µg/kg	dw	0									29	12	87	19.4	15
2-Butanone	µg/kg	dw	6	12	760	171	71.5	290	118	2.39	5.79	23	12	87	18.0	14
2-Hexanone	µg/kg	dw	0									29	12	87	19.4	15

Table G1-27. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
4-Methyl-2-pentanone	µg/kg	dw	0									29	12	87	19.4	15
Acetone	µg/kg	dw	15	12	870	130	37	224	57.7	2.95	9.47	14	5	63	17.6	13.5
Benzene	µg/kg	dw	2	2	3	2.5	2.5	0.71	0.5			27	12	87	19.6	15
Bromodichloromethane	µg/kg	dw	0									29	12	87	19.4	15
Bromoform	µg/kg	dw	0									29	12	87	19.4	15
Bromomethane	µg/kg	dw	0									29	12	87	19.4	15
Carbon disulfide	µg/kg	dw	18	2	25	8.83	8.50	6.23	1.47	1.08	1.26	11	12	87	20.5	14
Carbon Tetrachloride	µg/kg	dw	0									29	12	87	19.4	15
Chlorobenzene	µg/kg	dw	2	2	3	2.5	2.5	0.707	0.5			27	12	87	19.9	15
Chloroethane	µg/kg	dw	0									29	12	87	19.4	15
Chloroform	µg/kg	dw	0									29	12	87	19.4	15
Chloromethane	µg/kg	dw	1	10	10	10	10					28	12	87	19.4	15
Cis-1,3-dichloropropene	µg/kg	dw	0									29	12	87	19.4	15
Dibromochloromethane	µg/kg	dw	0									29	12	87	19.4	15
Ethylbenzene	µg/kg	dw	4	2	6	4.5	5	1.91	0.96	-0.85	-1.29	25	12	87	20.0	15
Methylene chloride	µg/kg	dw	1	12	12	12	12					28	2	87	19.3	15
Styrene	µg/kg	dw	0									29	12	87	19.4	15
Tetrachloroethene	µg/kg	dw	2	2	2	2	2	0	0			27	12	87	19.9	15
Toluene	µg/kg	dw	3	2	27	16.7	21	13.1	7.54	-1.33		26	12	87	20.1	15
Trans-1,3-dichloropropene	µg/kg	dw	0									29	12	87	19.4	15
Trichloroethene	µg/kg	dw	5	2	11	3.8	2	4.02	1.8	2.24	5	24	12	87	20.7	15
Vinyl chloride	µg/kg	dw	2	2	3	2.5	2.5	0.71	0.5			27	12	87	19.9	15
Xylene isomers (total)	µg/kg	dw	6	3	50	22.7	18.5	21.0	8.570	0.31	-2.46	23	12	87	20.3	15
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	0									28	400	3,700	911	510
1,2-Dichlorobenzene	µg/kg	dw	4	58	450	267	280	207	104	-0.07	-5.55	24	400	3,700	971	500
1,3-Dichlorobenzene	µg/kg	dw	0									28	400	3,700	911	510
1,4-Dichlorobenzene	µg/kg	dw	2	67	160	114	114	65.8	46.5			26	400	3,700	933	500
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									28	400	3,700	911	510
2,4,5-Trichlorophenol	µg/kg	dw	0									28	1,000	9,200	2,277	1,300
2,4,6-Trichlorophenol	µg/kg	dw	0									28	400	3,700	911	510
2,4-Dichlorophenol	µg/kg	dw	0									28	400	3,700	911	510
2,4-Dimethylphenol	µg/kg	dw	1	48	48	48	48					27	400	3,700	928	510
2,4-Dinitrophenol	µg/kg	dw	0									28	1,000	9,200	2,277	1,300
2,4-Dinitrotoluene	µg/kg	dw	0									28	400	3,700	911	510
2,6-Dinitrotoluene	µg/kg	dw	0									28	400	3,700	911	510
2-Chloronaphthalene	µg/kg	dw	0									28	400	3,700	911	510
2-Chlorophenol	µg/kg	dw	0									28	400	3,700	911	510
2-Methyl-4,6-dinitrophenol	µg/kg	dw	0									28	1,000	9,200	2,277	1,300
2-Methylphenol	µg/kg	dw	1	91	91	91	91					27	400	3,700	926	510
2-Nitroaniline	µg/kg	dw	0									28	1,000	9,200	2,277	1,300
2-Nitrophenol	µg/kg	dw	0									28	400	3,700	911	510
3,3'-Dichlorobenzidine	µg/kg	dw	0									28	400	3,700	911	510
3-Nitroaniline	µg/kg	dw	0									28	1,000	9,200	2,277	1,300
4-Bromophenyl-phenyl ether	µg/kg	dw	0									28	400	3,700	911	510
4-Chloro-3-methylphenol	µg/kg	dw	0									28	400	3,700	911	510
4-Chloroaniline	µg/kg	dw	1	280	280	280	280					27	400	3,700	870	510

Table G1-27. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									28	400	3,700	911	510
4-Methylphenol	µg/kg	dw	8	62	340	149	125	87.5	30.9	1.65	3.44	20	400	3,700	1,056	490
4-Nitroaniline	µg/kg	dw	0									28	1,000	9,200	2,277	1,300
4-Nitrophenol	µg/kg	dw	0									28	1,000	9,200	2,277	1,300
Bis(2-chloroethoxy)methane	µg/kg	dw	0									28	400	3,700	911	510
Bis(2-chloroethyl)ether	µg/kg	dw	0									28	400	3,700	911	510
Bis(2-ethylhexyl)phthalate	µg/kg	dw	21	45	12,000	2,226	1,300	2,912	635	2.30	5.95	7	400	1,900	721	510
Butylbenzyl phthalate	µg/kg	dw	2	150	34,000	17,075	17,075	23,936	16,925			26	400	3,700	942	510
Carbazole	µg/kg	dw	17	58	1,600	662	510	466	113	0.50	-0.79	11	400	3,100	730	440
Dibenzofuran	µg/kg	dw	12	78	2,500	788	780	673	194	1.46	3.12	16	400	3,700	1,204	510
Diethyl phthalate	µg/kg	dw	0									28	400	3,700	911	510
Dimethyl phthalate	µg/kg	dw	0									28	400	3,700	911	510
Di-n-butyl phthalate	µg/kg	dw	0									28	400	3,700	911	510
Di-n-octyl phthalate	µg/kg	dw	1	110	110	110	110					27	400	3,700	926	510
Hexachlorobenzene	µg/kg	dw	0									28	400	3,700	911	510
Hexachlorobutadiene	µg/kg	dw	0									28	400	3,700	911	510
Hexachlorocyclopentadiene	µg/kg	dw	0									28	400	3,700	911	510
Hexachloroethane	µg/kg	dw	0									28	400	3,700	911	510
Isophorone	µg/kg	dw	0									28	400	3,700	911	510
Nitrobenzene	µg/kg	dw	0									28	400	3,700	911	510
N-nitroso-di-n-propylamine	µg/kg	dw	0									28	400	3,700	911	510
N-Nitrosodiphenylamine	µg/kg	dw	0									28	400	3,700	911	510
Pentachlorophenol	µg/kg	dw	0									28	1,000	9,200	2,277	1,300
Phenol	µg/kg	dw	0									28	400	3,700	911	510
2-Methylnaphthalene	µg/kg	dw	13	50	1,200	414	270	374	104	1.26	0.73	15	400	3,700	1,151	510
Acenaphthene	µg/kg	dw	15	60	2,300	846	680	717	185	0.94	0.04	13	400	3,700	1,048	510
Acenaphthylene	µg/kg	dw	18	58	2,300	644	545	588	139	1.73	2.86	10	400	1,900	632	435
Anthracene	µg/kg	dw	20	50	7,600	1,707	1,300	1,719	384	2.24	6.79	8	410	840	503	435
Benz(a)anthracene	g/kg	dw	23	59	22,000	4,243	3,500	4,899	1,022	2.41	7.44	5	410	560	450	430
Benzo(a)pyrene	µg/kg	dw	23	45	20,000	3,892	3,500	4,555	950	2.33	6.70	5	410	840	536	440
Benzo(b)fluoranthene	µg/kg	dw	22	69	17,000	4,580	3,400	4,568	974	1.31	1.36	6	410	840	517	435
Benzo(g,h,i)perylene	µg/kg	dw	21	56	2,900	1,660	1,800	919	200	-0.48	-0.99	7	410	840	516	440
Benzo(k)fluoranthene	µg/kg	dw	17	52	9,100	2,456	1,890	2,612	633	1.34	1.51	11	410	2,000	653	450
Chrysene	µg/kg	dw	23	58	22,000	5,066	3,700	5,376	1,121	1.68	3.35	5	410	840	536	440
Dibenz(a,h)anthracene	µg/kg	dw	2	93	430	262	262	238	169			26	400	3,700	935	500
Fluoranthene	µg/kg	dw	26	41	45,000	7,873	6,950	9,883	1,938	2.33	7.26	2	430	560	495	495
Fluorene	µg/kg	dw	17	67	2,700	1,051	870	873	212	0.75	-0.53	11	400	2,000	756	440
Indeno(1,2,3-cd)pyrene	µg/kg	dw	21	49	3,200	1,386	1,340	1,008	220	0.32	-1.29	7	410	840	516	440
Naphthalene	µg/kg	dw	14	54	2,100	574	370	577	154	1.71	2.91	14	400	3,700	1,011	475
Phenanthrene	µg/kg	dw	22	120	27,000	5,635	3,600	6,432	1,371	2.01	4.94	6	410	840	515	435
Pyrene	µg/kg	dw	25	77	40,000	7,932	6,700	9,278	1,856	2.00	5.03	3	410	560	467	430
Pesticides/Polychlorinated Biphenyls																
Aroclor 1016	µg/kg	dw	17	38	230,000	21,569	60	62,212	15,089	3.00	8.68	14	23	56	41.7	42.5
Aroclor 1221	µg/kg	dw	0									31	23	11,900	488	99
Aroclor 1232	µg/kg	dw	0									31	23	5,810	240	49

Table G1-27. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Aroclor 1242	µg/kg	dw	16	19	36,300	3,201	179	9,001	2,250	3.76	14.5292	15	23	200	54.1	43
Aroclor 1248	µg/kg	dw	3	220	8,000	2,940	600	4,386	2,532	1.72		28	38	5,810	262	50
Aroclor 1254	µg/kg	dw	18	13	2,900	713	295	878	207	1.42	0.90	13	23	200	57.3	42
Aroclor 1260	µg/kg	dw	24	12	7,400	749	110	1,789	365	3.23	9.95	7	40	84	49.7	43

Table G1-28. Summary statistics for Onondaga Creek Surface Sediment Samples Collected by NYSDEC in 1996/1997

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Total organic carbon	mg/kg		5	15,700	65,400	45,880	54,200	21,242	9,500	-0.78	-1.37	0				
Total solids	%		5	53.2	75.6	65.8	70.4	11.1	4.96	-0.47	-3.14	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	7	1,100	4,640	2,780	2,490	1,405	531	0.28	-1.40	0				
Antimony	mg/kg	dw	3	6.4	12	9.2	9.2	2.8	1.62	0.00		4	0.79	1.1	0.92	0.89
Arsenic	mg/kg	dw	7	2.2	53	18.7	5.7	20.8	7.87	0.87	-0.96	0				
Barium	mg/kg	dw	4	47.5	117	76.1	70	30.4	15.2	0.97	0.32	3	8.9	12	10.3	9.9
Beryllium	mg/kg	dw	7	0.13	0.32	0.22	0.23	0.07	0.03	0.12	-0.85	0				
Cadmium	mg/kg	dw	4	0.19	1.4	0.58	0.36	0.56	0.28	1.80	3.28	0				
Calcium	mg/kg	dw	7	5,100	80,900	42,071	47,900	35,527	13,428	-0.08	-2.53	0				
Chromium	mg/kg	dw	7	6.2	34.9	18.3	16.0	11.3	4.26	0.72	-1.12	0				
Cobalt	mg/kg	dw	7	3	6.7	4.8	5.2	1.38	0.52	-0.24	-1.14	0				
Copper	mg/kg	dw	7	15.7	1,150	201	38	420	159	2.61	6.86	0				
Cyanide	mg/kg	dw	0									4	0.66	0.92	0.76	0.74
Iron	mg/kg	dw	7	3,800	27,300	10,487	6,810	8,428	3,185	1.57	2.44	0				
Lead	mg/kg	dw	7	18.8	178	79.2	49.0	68.2	25.8	0.79	-1.38	0				
Magnesium	mg/kg	dw	7	3,400	12,500	8,243	10,500	4,093	1547.018	-0.30	-2.58	0				
Manganese	mg/kg	dw	7	100	325	189	156	85.4	32.3	0.84	-0.83	0				
Mercury	mg/kg	dw	5	0.02	1.2	0.56	0.52	0.43	0.19	0.50	1.04	3	0.06	0.2	0.11	0.08
Nickel	mg/kg	dw	7	7.5	31.9	16.6	14	8.46	3.20	0.90	0.67	0				
Potassium	mg/kg	dw	4	540	960	733	716	189	94.4	0.36	-2.39	3	220	290	253	250
Selenium	mg/kg	dw	5	1.5	74	31.1	26	31.3	14.0	0.52	-1.60	2	0.74	0.9	0.82	0.82
Silver	mg/kg	dw	6	0.22	5.4	1.45	0.63	2.00	0.81	2.16	4.78	1	0.24	0.24	0.24	0.24
Sodium	mg/kg	dw	4	131	2,870	1,213	926	1,169	584	1.34	2.44	3	220	290	253	250
Thallium	mg/kg	dw	3	18	29	24.3	26	5.69	3.28	-1.21		4	0.69	0.95	0.79	0.77
Vanadium	mg/kg	dw	7	4	13.6	9.47	10.8	3.46	1.31	-0.52	-0.93	0				
Zinc	mg/kg	dw	7	37	251	109	80	75.2	28.4	1.36	1.21	0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									9	10	26	15.7	15
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									9	10	26	15.7	15
1,1,2-Trichloroethane	µg/kg	dw	0									9	10	26	15.7	15
1,1-Dichloroethane	µg/kg	dw	0									9	10	26	15.7	15
1,1-Dichloroethene	µg/kg	dw	0									9	10	26	15.7	15
1,2-Dichloroethane	µg/kg	dw	0									9	10	26	15.7	15
1,2-Dichloroethene (Total)	µg/kg	dw	1	5	5	5	5					8	10	26	15.4	14.5
1,2-Dichloropropane	µg/kg	dw	0									9	10	26	15.7	15
2-Butanone	µg/kg	dw	2	7	33	20	20	18.4	13			7	10	26	15.7	15

Table G1-28. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
2-Chlorotoluene	µg/kg	dw	0									6	10	26	16.2	15.5
2-Hexanone	µg/kg	dw	0									9	10	26	15.7	15
4-Chlorotoluene	µg/kg	dw	0									6	10	26	16.2	15.5
4-Methyl-2-pentanone	µg/kg	dw	0									9	10	26	15.7	15
Acetone	µg/kg	dw	2	20	98	59	59	55.2	39			7	10	26	15.7	15
Benzene	µg/kg	dw	2	3	3	3	3	0	0			7	10	26	15.6	14
Bromodichloromethane	µg/kg	dw	0									9	10	26	15.7	15
Bromoform	µg/kg	dw	0									9	10	26	15.7	15
Bromomethane	µg/kg	dw	0									9	10	26	15.7	15
Carbon disulfide	µg/kg	dw	1	8	8	8	8					8	10	26	15.4	14.5
Carbon Tetrachloride	µg/kg	dw	0									9	10	26	15.7	15
Chlorobenzene	µg/kg	dw	0									9	10	26	15.7	15
Chloroethane	µg/kg	dw	0									9	10	26	15.7	15
Chloroform	µg/kg	dw	0									9	10	26	15.7	15
Chloromethane	µg/kg	dw	0									3	13	18	14.7	13
Cis-1,2-dichloroethene	µg/kg	dw	0									6	10	26	16.2	15.5
Cis-1,3-dichloropropene	µg/kg	dw	0									9	10	26	15.7	15
Dibromochloromethane	µg/kg	dw	0									9	10	26	15.7	15
Ethylbenzene	µg/kg	dw	2	10	10	10	10	0	0			7	10	26	15.6	14
meta & para Xylenes	µg/kg	dw	2	10	10	10	10	0	0			4	10	26	16.3	14.5
Methylene chloride	µg/kg	dw	4	14	35	23.3	22	8.69	4.35	0.84	1.90	5	13	18	14.6	14
ortho-Xylene	µg/kg	dw	2	10	10	10	10	0	0			4	10	26	16.3	14.5
Styrene	µg/kg	dw	2	6	6	6	6	0	0			7	10	26	15.6	14
Tetrachloroethene	µg/kg	dw	0									9	10	26	15.7	15
Toluene	µg/kg	dw	4	2	10	6.25	6.5	4.349	2.175	-0.05	-5.74	5	10	15	13	13
trans-1,2-Dichloroethene	µg/kg	dw	0									6	10	26	16.2	15.5
Trans-1,3-dichloropropene	µg/kg	dw	0									9	10	26	15.7	15
Trichloroethene	µg/kg	dw	0									9	10	26	15.7	15
Trichlorofluoromethane	µg/kg	dw	3	3	30	12.7	5	15.0	8.69	1.70		3	14	16	15.3	16
Vinyl chloride	µg/kg	dw	0									9	10	26	15.7	15
Xylene isomers (total)	µg/kg	dw	0									3	13	18	14.7	13
Semivolatile Organic Compounds																
1,2,3-Trichlorobenzene	µg/kg	dw	0									6	10	26	16.2	15.5
1,2,4-Trichlorobenzene	µg/kg	dw	0									13	10	6,100	1,141	440
1,2-Dichlorobenzene	µg/kg	dw	0									13	10	6,100	1,141	440
1,3-Dichlorobenzene	µg/kg	dw	0									13	10	6,100	1,141	440
1,4-Dichlorobenzene	µg/kg	dw	2	2	2	2	2	0	0			11	10	6,100	1,345	510
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									7	440	6,100	2,104	1,000
2,4,5-Trichlorophenol	µg/kg	dw	0									7	510	15,000	4,413	1,100
2,4,6-Trichlorophenol	µg/kg	dw	0									7	440	6,100	2,104	1,000
2,4-Dichlorophenol	µg/kg	dw	0									7	440	6,100	2,104	1,000
2,4-Dimethylphenol	µg/kg	dw	0									7	440	6,100	2,104	1,000
2,4-Dinitrophenol	µg/kg	dw	0									7	510	15,000	4,413	1,100
2,4-Dinitrotoluene	µg/kg	dw	0									7	440	6,100	2,104	1,000
2,6-Dinitrotoluene	µg/kg	dw	0									7	440	6,100	2,104	1,000
2-Chloronaphthalene	µg/kg	dw	0									7	440	6,100	2,104	1,000
2-Chlorophenol	µg/kg	dw	0									7	440	6,100	2,104	1,000

Table G1-28. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
2-Methyl-4,6-dinitrophenol	µg/kg	dw	0									7	510	15,000	4,413	1,100
2-Methylphenol	µg/kg	dw	0									7	440	6,100	2,104	1,000
2-Nitroaniline	µg/kg	dw	0									7	510	15,000	4,413	1,100
2-Nitrophenol	µg/kg	dw	0									7	440	6,100	2,104	1,000
3,3'-Dichlorobenzidine	µg/kg	dw	0									7	440	6,100	2,104	1,000
3-Nitroaniline	µg/kg	dw	0									7	510	15,000	4,413	1,100
4-Bromophenyl-phenyl ether	µg/kg	dw	0									7	440	6,100	2,104	1,000
4-Chloro-3-methylphenol	µg/kg	dw	0									7	440	6,100	2,104	1,000
4-Chloroaniline	µg/kg	dw	0									7	440	6,100	2,104	1,000
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									7	440	6,100	2,104	1,000
4-Methylphenol	µg/kg	dw	0									7	440	6,100	2,104	1,000
4-Nitroaniline	µg/kg	dw	1	1,700	1,700	1,700	1,700					6	510	11,000	2,648	1,050
4-Nitrophenol	µg/kg	dw	0									7	510	15,000	4,413	1,100
Benzyl Alcohol	µg/kg	dw	0									4	510	1,500	948	890
Bis(2-chloroethoxy)methane	µg/kg	dw	0									7	440	6,100	2,104	1,000
Bis(2-chloroethyl)ether	µg/kg	dw	0									7	440	6,100	2,104	1,000
Bis(2-ethylhexyl)phthalate	µg/kg	dw	6	380	4,500	2,205	1,950	1,651	674	0.36	-1.82	1	4400	4,400	4,400	4,400
Butylbenzyl phthalate	µg/kg	dw	1	120	120	120	120					6	510	6,100	2,382	1,250
Carbazole	µg/kg	dw	3	360	6,400	2,787	1,600	3,190	1,842	1.44		0				
Dibenzofuran	µg/kg	dw	3	77	2,300	982	570	1,167	674	1.39		4	510	1,500	948	890
Diethyl phthalate	µg/kg	dw	0									7	440	6,100	2,104	1,000
Dimethyl phthalate	µg/kg	dw	0									7	440	6,100	2,104	1,000
Di-n-butyl phthalate	µg/kg	dw	2	80	160	120	120	56.6	40			5	510	6,100	2,702	1,500
Di-n-octyl phthalate	µg/kg	dw	2	45	330	188	188	202	143			5	510	6,100	2,702	1,500
Hexachlorobenzene	µg/kg	dw	0									7	440	6,100	2,104	1,000
Hexachlorobutadiene	µg/kg	dw	0									7	440	6,100	2,104	1,000
Hexachlorocyclopentadiene	µg/kg	dw	0									7	440	6,100	2,104	1,000
Hexachloroethane	µg/kg	dw	0									7	440	6,100	2,104	1,000
Isophorone	µg/kg	dw	0									7	440	6,100	2,104	1,000
Nitrobenzene	µg/kg	dw	0									7	440	6,100	2,104	1,000
N-nitroso-di-n-propylamine	µg/kg	dw	0									7	440	6,100	2,104	1,000
N-Nitrosodiphenylamine	µg/kg	dw	1	1,400	1,400	1,400	1,400					6	440	6,100	2,205	890
Pentachlorophenol	µg/kg	dw	0									7	510	15,000	4,413	1,100
Phenol	µg/kg	dw	0									7	440	6,100	2,104	1,000
2-Methylnaphthalene	µg/kg	dw	2	59	1,200	630	630	807	571			5	510	4,400	1,638	1,000
Acenaphthene	µg/kg	dw	6	110	9,600	2,082	795	3,701	1,511	2.40	5.81	1	510	510	510	510
Acenaphthylene	µg/kg	dw	5	130	1,500	728	460	557	249	0.62	-1.33	2	510	780	645	645
Anthracene	µg/kg	dw	7	410	7,000	2,354	1,500	2,406	909	1.45	1.64	0				
Benz(a)anthracene	g/kg	dw	7	1,300	13,000	6,086	5,500	4,687	1,772	0.76	-1.18	0				
Benzo(a)pyrene	µg/kg	dw	7	1,300	11,000	5,300	5,100	3,895	1,472	0.59	-1.37	0				
Benzo(b)fluoranthene	µg/kg	dw	7	1,300	8,700	4,200	3,900	3,006	1,136	0.65	-1.28	0				
Benzo(g,h,i)perylene	µg/kg	dw	7	650	5,700	2,631	2,500	2,062	779	0.61	-1.36	0				
Benzo(k)fluoranthene	µg/kg	dw	7	1,200	11,000	5,271	4,000	3,882	1,467	0.70	-1.29	0				
Chrysene	µg/kg	dw	7	1,500	14,000	6,457	5,900	4,845	1,831	0.76	-1.00	0				
Dibenz(a,h)anthracene	µg/kg	dw	0									7	440	6,100	2,104	1,000
Fluoranthene	µg/kg	dw	7	2,700	32,000	11,314	9,400	10,209	3,859	1.64	2.95	0				
Fluorene	µg/kg	dw	7	170	4,400	1,186	590	1,508	570	2.05	4.50	0				

Table G1-28. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	DETECTS Minimum Detection	DETECTS Maximum Detection	DETECTS Mean	DETECTS Median	DETECTS Standard Deviation	DETECTS Standard Error	DETECTS Skewness	DETECTS Kurtosis	NON-DETECTS N	NON-DETECTS Minimum Detection Limit	NON-DETECTS Maximum Detection Limit	NON-DETECTS Mean	NON-DETECTS Median
Indeno(1,2,3-cd)pyrene	µg/kg	dw	7	700	5,800	2,737	2,400	2,117	800	0.62	-1.45	0				
Naphthalene	µg/kg	dw	5	12	2,200	619	340	911	408	1.92	3.83	4	440	4,400	1,780	1,140
Phenanthrene	µg/kg	dw	7	1,600	24,000	8,171	5,200	7,886	2,981	1.59	2.64	0				
Pyrene	µg/kg	dw	7	2,200	27,000	11,686	10,000	9,215	3,483	0.86	-0.53	0				
Pesticides/Polychlorinated Biphenyls																
Aroclor 1016	µg/kg	dw	0									10	20	430	77.6	44
Aroclor 1221	µg/kg	dw	0									10	20	430	103	89
Aroclor 1232	µg/kg	dw	0									10	20	430	77.6	44
Aroclor 1242	µg/kg	dw	0									10	20	430	77.6	44
Aroclor 1248	µg/kg	dw	3	29	69	43.7	33	22.0	12.7	1.67		7	20	430	89	24
Aroclor 1254	µg/kg	dw	5	53	380	189	150	138	61.7	0.62	-1.55	5	20	430	104	23
Aroclor 1260	µg/kg	dw	7	22	35,000	8,403	730	14,237	5,381	1.51	0.91	3	20	24	22.3	23

Table G1-29. Summary Statistics for Upper Ninemile Creek Surface Sediment Samples Collected by NYSDEC in 1997/2000

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Total organic carbon	mg/kg		2	35,300	103,000	69,150	69,150	47,871	33,850			0				
Total solids	%		4	41	78.8	58.8	57.7	15.5	7.76	0.42	1.46	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	4	3,350	9,090	6,000	5,780	2,386	1,193	0.52	0.98	0				
Antimony	mg/kg	dw	0									4	0.76	1.3	1.00	0.97
Arsenic	mg/kg	dw	4	2.1	3.8	2.93	2.9	0.70	0.35	0.21	1.12	0				
Barium	mg/kg	dw	4	43.5	65.4	55.3	56.1	11.8	5.90	-0.06	-5.64	0				
Beryllium	mg/kg	dw	4	0.18	0.51	0.34	0.34	0.14	0.07	0.11	1.40	0				
Cadmium	mg/kg	dw	4	0.25	0.67	0.42	0.39	0.18	0.09	1.19	2.30	0				
Calcium	mg/kg	dw	4	47,600	128,000	79,450	71,100	34,595	17,297	1.27	1.93	0				
Chromium	mg/kg	dw	4	10.9	19	14.5	14	3.49	1.75	0.67	-0.26	0				
Cobalt	mg/kg	dw	4	3.1	8.4	5.15	4.55	2.32	1.16	1.30	1.68	0				
Copper	mg/kg	dw	4	14	64.4	32.9	26.6	21.9	11.0	1.52	2.70	0				
Cyanide	mg/kg	dw	0									4	0.13	0.89	0.46	0.41
Iron	mg/kg	dw	4	7,510	14,500	11,103	11,200	3,290	1,645	-0.09	-4.04	0				
Lead	mg/kg	dw	4	14.3	25	20.2	20.8	4.42	2.21	-0.73	1.78	0				
Magnesium	mg/kg	dw	4	10,000	36,500	19,250	15,250	11,779	5,890	1.71	3.21	0				
Manganese	mg/kg	dw	4	187	312	253	256	58.0	29.0	-0.17	-3.61	0				
Mercury	mg/kg	dw	2	0.1	0.18	0.14	0.14	0.06	0.04			2	0.05	0.09	0.07	0.07
Nickel	mg/kg	dw	4	10.1	22.9	15	13.5	5.96	2.98	0.94	-0.79	0				
Potassium	mg/kg	dw	4	474	2,090	1,323	1,364	841	421	-0.07	-5.50	0				
Selenium	mg/kg	dw	3	0.99	2.1	1.56	1.6	0.56	0.32	-0.30		1	0.99	0.99	0.99	0.99
Silver	mg/kg	dw	1	2.1	2.1	2.1	2.1					3	0.23	1.4	0.65	0.32
Sodium	mg/kg	dw	4	70.1	212	142	142	58.5	29.3	-0.05	0.93	0				
Thallium	mg/kg	dw	1	0.66	0.66	0.66	0.66					3	0.55	0.92	0.77	0.84
Vanadium	mg/kg	dw	4	11.6	20.2	15.6	15.2	4.08	2.04	0.25	-3.91	0				
Zinc	mg/kg	dw	4	45.7	97.1	65.2	59.0	22.3	11.1	1.47	2.55	0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									2	13	18	15.5	15.5
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									2	13	18	15.5	15.5
1,1,2-Trichloroethane	µg/kg	dw	0									2	13	18	15.5	15.5
1,1-Dichloroethane	µg/kg	dw	0									2	13	18	15.5	15.5
1,1-Dichloroethene	µg/kg	dw	0									2	13	18	15.5	15.5
1,2-Dichloroethane	µg/kg	dw	0									2	13	18	15.5	15.5
1,2-Dichloroethene isomers (total)	µg/kg	dw	0									2	13	18	15.5	15.5
1,2-Dichloropropane	µg/kg	dw	0									2	13	18	15.5	15.5

Table G1-29. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	DETECTS Minimum Detection	DETECTS Maximum Detection	DETECTS Mean	DETECTS Median	DETECTS Standard Deviation	DETECTS Standard Error	DETECTS Skewness	DETECTS Kurtosis	NON-DETECTS N	NON-DETECTS Minimum Detection Limit	NON-DETECTS Maximum Detection Limit	NON-DETECTS Mean	NON-DETECTS Median
2-Butanone	µg/kg	dw	1	9	9	9	9					1	18	18	18	18
2-Hexanone	µg/kg	dw	0									2	13	18	15.5	15.5
4-Methyl-2-pentanone	µg/kg	dw	0									2	13	18	15.5	15.5
Acetone	µg/kg	dw	2	16	35	25.5	25.5	13.4	9.5			0				
Benzene	µg/kg	dw	0									2	13	18	15.5	15.5
Bromodichloromethane	µg/kg	dw	0									2	13	18	15.5	15.5
Bromoform	µg/kg	dw	0									2	13	18	15.5	15.5
Bromomethane	µg/kg	dw	0									2	13	18	15.5	15.5
Carbon disulfide	µg/kg	dw	2	5	12	8.5	8.5	4.95	3.5			0				
Carbon Tetrachloride	µg/kg	dw	0									2	13	18	15.5	15.5
Chlorobenzene	µg/kg	dw	0									2	13	18	15.5	15.5
Chloroethane	µg/kg	dw	0									2	13	18	15.5	15.5
Chloroform	µg/kg	dw	0									2	13	18	15.5	15.5
Chloromethane	µg/kg	dw	0									2	13	18	15.5	15.5
Cis-1,3-dichloropropene	µg/kg	dw	0									2	13	18	15.5	15.5
Dibromochloromethane	µg/kg	dw	0									2	13	18	15.5	15.5
Ethylbenzene	µg/kg	dw	0									2	13	18	15.5	15.5
Methylene chloride	µg/kg	dw	0									2	13	18	15.5	15.5
Styrene	µg/kg	dw	0									2	13	18	15.5	15.5
Tetrachloroethene	µg/kg	dw	0									2	13	18	15.5	15.5
Toluene	µg/kg	dw	0									2	13	18	15.5	15.5
trans-1,3-Dichloropropene	µg/kg	dw	0									2	13	18	15.5	15.5
Trichloroethene	µg/kg	dw	0									2	13	18	15.5	15.5
Vinyl chloride	µg/kg	dw	0									2	13	18	15.5	15.5
Xylene isomers (total)	µg/kg	dw	0									2	13	18	15.5	15.5
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	0									2	420	590	505	505
1,2-Dichlorobenzene	µg/kg	dw	0									2	420	590	505	505
1,3-Dichlorobenzene	µg/kg	dw	0									2	420	590	505	505
1,4-Dichlorobenzene	µg/kg	dw	0									2	420	590	505	505
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									2	420	590	505	505
2,4,5-Trichlorophenol	µg/kg	dw	0									2	1,100	1,500	1,300	1,300
2,4,6-Trichlorophenol	µg/kg	dw	0									2	420	590	505	505
2,4-Dichlorophenol	µg/kg	dw	0									2	420	590	505	505
2,4-Dimethylphenol	µg/kg	dw	0									2	420	590	505	505
2,4-Dinitrophenol	µg/kg	dw	0									2	1,100	1,500	1,300	1,300
2,4-Dinitrotoluene	µg/kg	dw	0									2	420	590	505	505
2,6-Dinitrotoluene	µg/kg	dw	0									2	420	590	505	505
2-Chloronaphthalene	µg/kg	dw	0									2	420	590	505	505
2-Chlorophenol	µg/kg	dw	0									2	420	590	505	505
2-Methylphenol	µg/kg	dw	0									2	420	590	505	505
2-Nitroaniline	µg/kg	dw	0									2	1,100	1,500	1,300	1,300

Table G1-29. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
2-Nitrophenol	µg/kg	dw	0									2	420	590	505	505
3,3'-Dichlorobenzidine	µg/kg	dw	0									2	420	590	505	505
3-Nitroaniline	µg/kg	dw	0									2	1,100	1,500	1,300	1,300
2-methyl-4,6-Dinitrophenol	µg/kg	dw	0									2	1,100	1,500	1,300	1,300
4-Bromophenyl-phenyl ether	µg/kg	dw	0									2	420	590	505	505
4-Chloro-3-methylphenol	µg/kg	dw	0									2	420	590	505	505
4-Chloroaniline	µg/kg	dw	0									2	420	590	505	505
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									2	420	590	505	505
4-Methylphenol	µg/kg	dw	0									2	420	590	505	505
4-Nitroaniline	µg/kg	dw	0									2	1,100	1,500	1,300	1,300
4-Nitrophenol	µg/kg	dw	0									2	1,100	1,500	1,300	1,300
Bis(2-chloroethoxy)methane	µg/kg	dw	0									2	420	590	505	505
Bis(2-chloroethyl)ether	µg/kg	dw	0									2	420	590	505	505
Bis(2-ethylhexyl)phthalate	µg/kg	dw	1	120	120	120	120					1	420	420	420	420
Butylbenzyl phthalate	µg/kg	dw	0									2	420	590	505	505
Carbazole	µg/kg	dw	0									2	420	590	505	505
Dibenzofuran	µg/kg	dw	0									2	420	590	505	505
Diethyl phthalate	µg/kg	dw	0									2	420	590	505	505
Dimethyl phthalate	µg/kg	dw	0									2	420	590	505	505
Di-n-butyl phthalate	µg/kg	dw	0									2	420	590	505	505
Di-n-octyl phthalate	µg/kg	dw	0									2	420	590	505	505
Hexachlorobenzene	µg/kg	dw	0									2	420	590	505	505
Hexachlorobutadiene	µg/kg	dw	0									2	420	590	505	505
Hexachlorocyclopentadiene	µg/kg	dw	0									2	420	590	505	505
Hexachloroethane	µg/kg	dw	0									2	420	590	505	505
Isophorone	µg/kg	dw	0									2	420	590	505	505
Nitrobenzene	µg/kg	dw	0									2	420	590	505	505
N-nitroso-di-n-propylamine	µg/kg	dw	0									2	420	590	505	505
N-Nitrosodiphenylamine	µg/kg	dw	0									2	420	590	505	505
Pentachlorophenol	µg/kg	dw	0									2	1,100	1,500	1,300	1,300
Phenol	µg/kg	dw	0									2	420	590	505	505
2-Methylnaphthalene	µg/kg	dw	0									2	420	590	505	505
Acenaphthene	µg/kg	dw	0									2	420	590	505	505
Acenaphthylene	µg/kg	dw	2	98	130	114	114	22.6	16			0				
Anthracene	µg/kg	dw	1	92	92	92	92					1	590	590	590	590
Benz(a)anthracene	g/kg	dw	2	82	97	89.5	89.5	10.6	7.5			0				
Benzo(a)pyrene	µg/kg	dw	2	65	75	70	70	7.07	5			0				
Benzo(b)fluoranthene	µg/kg	dw	2	74	90	82	82	11.3	8			0				
Benzo(g,h,i)perylene	µg/kg	dw	0									2	420	590	505	505
Benzo(k)fluoranthene	µg/kg	dw	2	88	140	114	114	36.8	26			0				
Chrysene	µg/kg	dw	2	96	110	103	103	9.90	7			0				
Dibenz(a,h)anthracene	µg/kg	dw	0									2	420	590	505	505

Table G1-29. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Fluoranthene	µg/kg	dw	2	220	240	230	230	14.1	10			0				
Fluorene	µg/kg	dw	1	67	67	67	67					1	590	590	590	590
Indeno(1,2,3-cd)pyrene	µg/kg	dw	0									2	420	590	505	505
Naphthalene	µg/kg	dw	1	50	50	50	50					1	590	590	590	590
Phenanthrene	µg/kg	dw	2	89	210	150	150	85.6	60.5			0				
Pyrene	µg/kg	dw	2	190	200	195	195	7.07	5			0				
Pesticides/Polychlorinated Biphenyls																
Aroclor 1016	µg/kg	dw	0									2	42	58	50	50
Aroclor 1221	µg/kg	dw	0									2	85	120	103	103
Aroclor 1232	µg/kg	dw	0									2	42	58	50	50
Aroclor 1242	µg/kg	dw	0									2	42	58	50	50
Aroclor 1248	µg/kg	dw	0									2	42	58	50	50
Aroclor 1254	µg/kg	dw	0									2	42	58	50	50
Aroclor 1260	µg/kg	dw	0									2	42	58	50	50

Table G1-30. Summary Statistics for Harbor Brook Surface Sediment Samples Collected by NYSDEC in 1996/1997

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Total organic carbon	mg/kg		6	48,100	187,000	104,617	110,000	49,283	20,120	0.72	0.92	0				
Total solids	%		6	42.2	83.9	61.3	57.3	15.1	6.18	0.51	-0.56	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	18	2,320	10,500	5,549	5,220	2,260	533	0.75	0.20	0				
Antimony	mg/kg	dw	3	1	1.6	1.33	1.4	0.31	0.18	-0.94		15	0.7	1.3	0.91	0.87
Arsenic	mg/kg	dw	18	1.5	11.7	4.81	3.85	2.87	0.68	0.95	0.27	0				
Barium	mg/kg	dw	18	23.5	789	139	91.4	170	40.0	3.67	14.5	0				
Beryllium	mg/kg	dw	18	0.14	0.54	0.39	0.4	0.11	0.03	-0.66	-0.05	0				
Cadmium	mg/kg	dw	18	0.06	6.5	1.14	0.72	1.45	0.34	3.31	12.2	0				
Calcium	mg/kg	dw	18	45,900	386,000	170,000	169,500	89,932	21,197	1.06	0.83	0				
Chromium	mg/kg	dw	18	5.3	126	33.1	29	25.8	6.08	2.92	10.7	0				
Cobalt	mg/kg	dw	18	2.4	10.3	5.72	5.25	2.20	0.52	0.49	-0.31	0				
Copper	mg/kg	dw	18	17.6	275	79.8	59	62.7	14.8	1.93	4.74	0				
Cyanide	mg/kg	dw	1	2.1	2.1	2.1	2.1					17	0.6	1.2	0.85	0.81
Iron	mg/kg	dw	18	5,490	30,500	12,807	11,800	6,148	1,449	1.46	2.78	0				
Lead	mg/kg	dw	18	29.1	514	156	119	120	28.2	1.81	3.69	0				
Magnesium	mg/kg	dw	18	7,890	34,800	17,214	15,700	8,517	2,008	0.92	-0.17	0				
Manganese	mg/kg	dw	18	130	432	268	263	75.9	17.9	0.25	0.30	0				
Mercury	mg/kg	dw	18	0.1	35.7	3.88	0.51	8.79	2.07	3.21	11.0	0				
Nickel	mg/kg	dw	18	6.9	48.5	21.3	19.4	9.73	2.29	1.17	2.43	0				
Potassium	mg/kg	dw	18	510	3,390	1,589	1,385	906	214	0.90	-0.43	0				
Selenium	mg/kg	dw	11	0.69	6.6	1.92	0.76	2.18	0.66	1.82	1.88	7	0.38	1	0.52	0.44
Silver	mg/kg	dw	15	0.21	2.2	0.83	0.66	0.52	0.13	1.33	2.23	3	0.11	0.33	0.22	0.21
Sodium	mg/kg	dw	18	277	4,660	1,545	1,225	1,206	284	1.37	1.54	0				
Thallium	mg/kg	dw	3	0.83	0.96	0.91	0.93	0.07	0.04	-1.36		15	0.49	1.2	0.70	0.61
Vanadium	mg/kg	dw	18	6.8	37.3	16.5	14.4	7.27	1.71	1.48	2.78	0				
Zinc	mg/kg	dw	11	53.7	570	212	179	150	45.1	1.39	2.39	0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									18	12	2,600	301	21.5
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									18	12	2,600	301	21.5
1,1,2-Trichloroethane	µg/kg	dw	0									18	12	2,600	301	21.5
1,1-Dichloroethane	µg/kg	dw	0									18	12	2,600	301	21.5
1,1-Dichloroethene	µg/kg	dw	0									18	12	2,600	301	21.5
1,2-Dichloroethane	µg/kg	dw	0									18	12	2,600	301	21.5
1,2-Dichloroethene isomers (total)	µg/kg	dw	0									18	12	2,600	301	21.5
1,2-Dichloropropane	µg/kg	dw	0									18	12	2,600	301	21.5
2-Butanone	µg/kg	dw	4	13	82	33.3	19	32.6	16.3	1.95	3.85	14	12	2,600	378	21.5
2-Hexanone	µg/kg	dw	0									18	12	2,600	301	21.5
4-Methyl-2-pentanone	µg/kg	dw	0									18	12	2,600	301	21.5
Acetone	µg/kg	dw	7	4	270	77	56	87.5	33.1	2.33	5.92	11	13	2,600	470	21
Benzene	µg/kg	dw	10	13	1,500	296	27.5	497	157	1.91	3.42	8	12	62	23	18.5
Bromodichloromethane	µg/kg	dw	0									18	12	2,600	301	21.5
Bromoform	µg/kg	dw	0									18	12	2,600	301	21.5
Bromomethane	µg/kg	dw	0									18	12	2,600	301	21.5

Table G1-30. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Carbon disulfide	µg/kg	dw	7	4	15	9.43	10	4.24	1.60	0.10	-1.71	11	12	2,600	476	34
Carbon Tetrachloride	µg/kg	dw	0									18	12	2,600	301	21.5
Chlorobenzene	µg/kg	dw	3	340	36,000	12,323	630	20,505	11,839	1.73		15	12	2,600	205	21
Chloroethane	µg/kg	dw	0									18	12	2,600	301	21.5
Chloroform	µg/kg	dw	0									18	12	2,600	301	21.5
Chloromethane	µg/kg	dw	0									18	12	2,600	301	21.5
Cis-1,3-dichloropropene	µg/kg	dw	0									18	12	2,600	301	21.5
Dibromochloromethane	µg/kg	dw	0									18	12	2,600	301	21.5
Ethylbenzene	µg/kg	dw	9	6	3,200	811	650	1,043	348	1.75	3.21	9	12	62	22.9	19
Methylene chloride	µg/kg	dw	0									18	12	2,600	301	21.5
Styrene	µg/kg	dw	2	41	110	75.5	75.5	48.8	34.5			16	12	2,600	335	21.5
Tetrachloroethene	µg/kg	dw	0									18	12	2,600	301	21.5
Toluene	µg/kg	dw	10	7	3,500	704	79.5	1,164	368	1.88	3.22	8	12	62	23	18.5
trans-1,3-Dichloropropene	µg/kg	dw	0									18	12	2,600	301	21.5
Trichloroethene	µg/kg	dw	0									18	12	2,600	301	21.5
Vinyl chloride	µg/kg	dw	0									18	12	2,600	301	21.5
Xylene isomers (total)	µg/kg	dw	11	21	10,000	2,582	860	3,582	1,080	1.50	1.09	7	12	24	17.4	18
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	3	5,600	17,000	10,667	9,400	5,805	3,351	0.94		15	400	3,500	1,149	630
1,2-Dichlorobenzene	µg/kg	dw	4	260	19,000	11,815	14,000	8,097	4,049	-1.43	2.47	14	400	3,500	1,060	620
1,3-Dichlorobenzene	µg/kg	dw	3	2,900	12,000	6,033	3,200	5,169	2,985	1.73		15	400	3,500	1,149	630
1,4-Dichlorobenzene	µg/kg	dw	11	88	49,000	10,201	360	17,583	5,301	1.53	1.06	7	400	2,800	849	530
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									18	400	3,500	1,436	740
2,4,5-Trichlorophenol	µg/kg	dw	0									18	990	8,600	3,566	1,850
2,4,6-Trichlorophenol	µg/kg	dw	0									18	400	3,500	1,436	740
2,4-Dichlorophenol	µg/kg	dw	0									18	400	3,500	1,436	740
2,4-Dimethylphenol	µg/kg	dw	4	51	11,000	3,854	2,182	5,167	2,583	1.24	0.64	14	400	3,100	1,326	740
2,4-Dinitrophenol	µg/kg	dw	0									18	990	8,600	3,566	1,850
2,4-Dinitrotoluene	µg/kg	dw	0									18	400	3,500	1,436	740
2,6-Dinitrotoluene	µg/kg	dw	0									18	400	3,500	1,436	740
2-Chloronaphthalene	µg/kg	dw	0									18	400	3,500	1,436	740
2-Chlorophenol	µg/kg	dw	0									18	400	3,500	1,436	740
2-Methylphenol	µg/kg	dw	2	390	2,400	1,395	1,395	1,421	1,005			16	400	3,100	1,221	660
2-Nitroaniline	µg/kg	dw	0									18	990	8,600	3,566	1,850
2-Nitrophenol	µg/kg	dw	0									18	400	3,500	1,436	740
3,3'-Dichlorobenzidine	µg/kg	dw	1	9,400	9,400	9,400	9,400					17	400	3,100	1,314	690
3-Nitroaniline	µg/kg	dw	0									18	990	8,600	3,566	1,850
2-methyl-4,6-Dinitrophenol	µg/kg	dw	0									18	990	8,600	3,566	1,850
4-Bromophenyl-phenyl ether	µg/kg	dw	0									18	400	3,500	1,436	740
4-Chloro-3-methylphenol	µg/kg	dw	0									18	400	3,500	1,436	740
4-Chloroaniline	µg/kg	dw	9	74	1,600	563	370	540	180	1.05	0.12	9	610	3,500	2,311	2,700
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									18	400	3,500	1,436	740
4-Methylphenol	µg/kg	dw	11	56	3,300	662	310	935	282	2.62	7.54	7	400	3,100	1,184	690
4-Nitroaniline	µg/kg	dw	0									18	990	8,600	3,566	1,850
4-Nitrophenol	µg/kg	dw	1	370	370	370	370					17	990	8,600	3,370	1,700
Bis(2-chloroethoxy)methane	µg/kg	dw	0									18	400	3,500	1,436	740
Bis(2-chloroethyl)ether	µg/kg	dw	0									18	400	3,500	1,436	740

Table G1-30. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Bis(2-ethylhexyl)phthalate	µg/kg	dw	15	360	6,400	2,225	1,600	1,905	492	1.31	0.55	3	450	3,100	2,117	2,800
Butylbenzyl phthalate	µg/kg	dw	4	150	7,800	2,195	415	3,742	1,871	1.98	3.94	14	400	3,500	1,657	1,515
Carbazole	µg/kg	dw	18	75	29,000	3,464	905	6,769	1,595	3.52	13.42071	0				
Dibenzofuran	µg/kg	dw	17	190	110,000	9,457	700	26,244	6,365	3.95	15.97443	1	610	610	610	610
Diethyl phthalate	µg/kg	dw	0									18	400	3,500	1,436	740
Dimethyl phthalate	µg/kg	dw	0									18	400	3,500	1,436	740
Di-n-butyl phthalate	µg/kg	dw	1	540	540	540	540					17	400	3,500	1,491	790
Di-n-octyl phthalate	µg/kg	dw	1	1,300	1,300	1,300	1,300					17	400	3,500	1,471	690
Hexachlorobenzene	µg/kg	dw	0									18	130	3,500	1,287	660
Hexachlorobutadiene	µg/kg	dw	0									18	400	3,500	1,436	740
Hexachlorocyclopentadiene	µg/kg	dw	0									18	400	3,500	1,436	740
Hexachloroethane	µg/kg	dw	0									18	400	3,500	1,436	740
Isophorone	µg/kg	dw	1	64	64	64	64					17	190	3,500	1,339	690
Nitrobenzene	µg/kg	dw	0									18	400	3,500	1,436	740
N-nitroso-di-n-propylamine	µg/kg	dw	0									18	400	3,500	1,436	740
N-Nitrosodiphenylamine	µg/kg	dw	0									18	400	3,500	1,436	740
Pentachlorophenol	µg/kg	dw	0									18	990	8,600	3,566	1,850
Phenol	µg/kg	dw	4	270	1,700	805	625	620	310	1.54	2.87	14	400	3,100	1,158	650
1-Methylnaphthalene	µg/kg	dw	4	1,000	1,500	1,225	1,200	222	111	0.48	-1.70	0				
2-Methylnaphthalene	µg/kg	dw	17	74	270,000	21,881	910	64,829	15,723	3.94	15.9	1	610	610	610	610
Acenaphthene	µg/kg	dw	17	210	130,000	11,261	1,100	31,005	7,520	3.95	15.9	1	610	610	610	610
Acenaphthylene	µg/kg	dw	18	190	6,500	1,654	945	1,803	425	1.93	2.90	0				
Anthracene	µg/kg	dw	18	160	67,000	6,582	2,050	15,315	3,610	4.03	16.7	0				
Benz(a)anthracene	.g/kg	dw	17	630	33,000	6,808	4,900	7,569	1,836	2.92	9.63	1	3,500	3,500	3,500	3,500
Benzo(a)pyrene	µg/kg	dw	18	770	16,000	5,354	4,500	3,822	901	1.57	2.67	0				
Benzo(b)fluoranthene	µg/kg	dw	18	800	16,000	5,944	5,100	3,833	903	1.13	1.42	0				
Benzo(g,h,i)perylene	µg/kg	dw	18	530	10,000	2,938	2,100	2,648	624	1.64	2.23	0				
Benzo(k)fluoranthene	µg/kg	dw	15	670	9,600	4,158	3,100	2,564	662	0.77	-0.24	3	400	790	607	630
Chrysene	µg/kg	dw	18	820	32,000	7,457	5,900	7,150	1,685	2.63	8.30	0				
Dibenz(a,h)anthracene	µg/kg	dw	1	3,000	3,000	3,000	3,000					16	400	3,500	1,413	660
Fluoranthene	µg/kg	dw	17	1,100	120,000	16,259	9,900	27,424	6,651	3.79	15.0	1	3,100	3,100	3,100	3,100
Fluorene	µg/kg	dw	17	76	150,000	12,326	1,000	35,921	8,712	3.96	16.0	1	3,100	3,100	3,100	3,100
Indeno(1,2,3-cd)pyrene	µg/kg	dw	17	680	10,000	3,066	2,000	2,765	671	1.75	2.40	1	3,100	3,100	3,100	3,100
Naphthalene	µg/kg	dw	18	75	570,000	48,667	2,200	133,713	31,517	3.89	15.8	0				
Phenanthrene	µg/kg	dw	18	500	260,000	23,450	6,550	59,675	14,065	4.10	17.1	0				
Pyrene	µg/kg	dw	18	1,200	86,000	14,328	9,400	18,953	4,467	3.52	13.6	0				
Pesticides/Polychlorinated Biphenyls																
Aroclor 1016	µg/kg	dw	5	47	61	53.2	53	5.31	2.37	0.58	0.32	13	39	82	57	55
Aroclor 1221	µg/kg	dw	0									18	80	170	114.222	110
Aroclor 1232	µg/kg	dw	0									18	39	82	55.9	54
Aroclor 1242	µg/kg	dw	5	60	780	352	330	307	137	0.51	-1.25	13	39	82	57	55
Aroclor 1248	µg/kg	dw	0									18	39	82	55.9	54
Aroclor 1254	µg/kg	dw	17	24	610	175	120	153	37.1	1.64	3.00	1	55	55	55	55
Aroclor 1260	µg/kg	dw	17	40	700	189	130	199	48.2	1.81	2.35	1	34	34	34	34

Table G1-31. Summary Statistics for Geddes Brook Surface Sediment Samples Collected by NYSDEC in 1996/1997

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Total organic carbon	mg/kg		9	11,500	175,000	91,100	90,500	57,342	19,114	0.20	-1.14	0				
Total solids	%		14	21	76.7	46.5	46.5	14.4	3.85	0.19	0.50	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	19	1,900	12,700	5,893	4,400	3,325	763	0.70	-0.73	0				
Antimony	mg/kg	dw	5	2.7	11	8.62	10	3.36	1.50	-2.07	4.45	14	0.78	3.4	1.37	1.2
Arsenic	mg/kg	dw	17	2.3	87	18.2	4.7	27.9	6.76	1.85	1.95	2	0.53	0.56	0.55	0.55
Barium	mg/kg	dw	14	22.8	268	89.5	69.4	62.3	16.7	1.98	4.83	5	9.4	11	10.5	11
Beryllium	mg/kg	dw	19	0.17	0.93	0.41	0.37	0.21	0.05	0.95	0.50	0				
Cadmium	mg/kg	dw	16	0.13	2	0.69	0.55	0.52	0.13	1.27	1.29	1	0.09	0.09	0.09	0.09
Calcium	mg/kg	dw	19	5,400	412,000	119,000	69,600	128,000	29,371	1.04	-0.17	0				
Chromium	mg/kg	dw	19	6.3	67	23.3	18.9	16.3	3.73	1.79	2.99	0				
Cobalt	mg/kg	dw	19	2.8	13.9	6.98	6.9	2.97	0.68	0.95	0.45	0				
Copper	mg/kg	dw	19	12.6	223	45.9	32	46.6	10.7	3.33	12.7	0				
Cyanide	mg/kg	dw	0									14	0.17	1.9	0.77	0.84
Iron	mg/kg	dw	19	4,000	27,400	11,158	10,000	6,658	1,527	0.78	0.08	0				
Lead	mg/kg	dw	19	8.3	739	98.6	31.3	181	41.6	3.02	9.31	0				
Magnesium	mg/kg	dw	19	2,900	44,500	14,239	11,500	10,890	2,498	1.25	1.86	0				
Manganese	mg/kg	dw	19	126	832	343	321	172	39.4	1.27	2.36	0				
Mercury	mg/kg	dw	13	0.10	88.9	8.25	1.3	24.3	6.73	3.59	12.9	6	0.06	0.2	0.14	0.15
Nickel	mg/kg	dw	19	8.7	53.5	18.6	16.2	10.8	2.49	2.21	5.55	0				
Potassium	mg/kg	dw	14	403	3,010	1,465	1,370	886	237	0.40	-1.28	5	230	280	262	270
Selenium	mg/kg	dw	6	2.1	58	27.9	26.6	27.6	11.3	0.04	-3.19	13	0.27	3.2	1.31	1.1
Silver	mg/kg	dw	9	0.05	3.2	1.06	0.21	1.31	0.44	0.92	-1.09	10	0.23	2.6	0.75	0.36
Sodium	mg/kg	dw	14	189	6,860	1,387	807	1,813	484	2.43	6.57	5	230	280	262	270
Thallium	mg/kg	dw	6	0.99	33	15.9	15.1	15.6	6.35	0.05	-3.18	13	0.53	1.3	0.90	0.9
Vanadium	mg/kg	dw	18	6.6	41.7	16.9	14.7	9.22	2.17	1.23	1.57	1	1.3	1.3	1.3	1.3
Zinc	mg/kg	dw	19	29	226	110	87	57.7	13.2	0.86	-0.13	0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									19	13	87	32.5	20
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									19	13	87	32.5	20
1,1,2-Trichloroethane	µg/kg	dw	0									19	13	87	32.5	20
1,1-Dichloroethane	µg/kg	dw	0									19	13	87	32.5	20
1,1-Dichloroethene	µg/kg	dw	0									19	13	87	32.5	20
1,2-Dichloroethane	µg/kg	dw	0									19	13	87	32.5	20
1,2-Dichloroethene isomers (total)	µg/kg	dw	1	17	17	17	17					16	13	87	26.4	20
1,2-Dichloropropane	µg/kg	dw	0									19	13	87	32.5	20
2-Butanone	µg/kg	dw	6	6	29	17	18	7.69	3.14	0.19	0.94	13	13	87	37.2	23
2-Chlorotoluene	µg/kg	dw	0									9	16	87	45.4	25
2-Hexanone	µg/kg	dw	0									19	13	87	32.5	20
4-Chlorotoluene	µg/kg	dw	0									9	16	87	45.4	25
4-Methyl-2-pentanone	µg/kg	dw	0									19	13	87	32.5	20
Acetone	µg/kg	dw	8	15	90	44.3	45	25.5	9.01	0.59	-0.07	11	13	87	40.1	20
Benzene	µg/kg	dw	1	17	17	17	17					18	13	87	32.1	20

Table G1-31. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Bromodichloromethane	µg/kg	dw	0									19	13	87	32.5	20
Bromoform	µg/kg	dw	0									19	13	87	32.5	20
Bromomethane	µg/kg	dw	0									19	13	87	32.5	20
Carbon disulfide	µg/kg	dw	8	2	30	9.5	7.5	9.17	3.24	1.88	4.05	11	13	87	40.1	20
Carbon Tetrachloride	µg/kg	dw	0									19	13	87	32.5	20
Chlorobenzene	µg/kg	dw	3	42	820	301	42	449	259	1.73		16	13	69	25.3	20
Chloroethane	µg/kg	dw	0									19	13	87	32.5	20
Chloroform	µg/kg	dw	0									19	13	87	32.5	20
Chloromethane	µg/kg	dw	0									10	13	39	20.8	19.5
Cis-1,2-dichloroethene	µg/kg	dw	0									9	16	87	45.4	25
Cis-1,3-dichloropropene	µg/kg	dw	0									19	13	87	32.5	20
Dibromochloromethane	µg/kg	dw	0									19	13	87	32.5	20
Ethylbenzene	µg/kg	dw	1	12	12	12	12					18	13	87	32.1	20
Methylene chloride	µg/kg	dw	5	24	96	56.6	43	36.8	16.5	0.42	-3.15	14	13	69	27.6	20
Styrene	µg/kg	dw	0									19	13	87	32.5	20
Tetrachloroethene	µg/kg	dw	0									19	13	87	32.5	20
Toluene	µg/kg	dw	7	2	190	60.1	15	88.9	33.6	1.21	-0.85	12	13	25	19.5	20
trans-1,2-Dichloroethene	µg/kg	dw	0									9	16	87	45.4	25
trans-1,3-Dichloropropene	µg/kg	dw	0									19	13	87	32.5	20
Trichloroethene	µg/kg	dw	1	4	4	4	4					18	13	87	33.2	21.5
Trichlorofluoromethane	µg/kg	dw	5	29	61	46.2	51	16.2	7.26	-0.35	-3.10	4	20	69	44.5	44.5
Vinyl chloride	µg/kg	dw	0									19	13	87	32.5	20
meta & para Xylenes	µg/kg	dw	0									9	16	87	45.4	25
ortho-Xylene	µg/kg	dw	0									9	16	87	45.4	25
Xylene isomers (total)	µg/kg	dw	1	57	57	57	57					9	13	25	18.8	19
Semivolatile Organic Compounds																
1,2,3-Trichlorobenzene	µg/kg	dw	0									9	5	87	43.2	20
1,2,4-Trichlorobenzene	µg/kg	dw	1	830	830	830	830					23	5	2,500	606	580
1,2-Dichlorobenzene	µg/kg	dw	3	2	3,600	1,237	110	2,047	1,182	1.73		21	16	2,500	636	580
1,3-Dichlorobenzene	µg/kg	dw	1	1,000	1,000	1,000	1,000					23	16	2,500	607	580
1,4-Dichlorobenzene	µg/kg	dw	4	130	3,900	1,135	255	1,846	923	1.98	3.94	20	16	2,500	602	490
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									15	430	2,500	991	780
2,4,5-Trichlorophenol	µg/kg	dw	0									15	820	3,200	1,688	1,600
2,4,6-Trichlorophenol	µg/kg	dw	0									15	430	2,500	991	780
2,4-Dichlorophenol	µg/kg	dw	0									15	430	2,500	991	780
2,4-Dimethylphenol	µg/kg	dw	1	110	110	110	110					14	430	2,500	1,013	800
2,4-Dinitrophenol	µg/kg	dw	0									15	820	3,200	1,688	1,600
2,4-Dinitrotoluene	µg/kg	dw	0									15	430	2,500	991	780
2,6-Dinitrotoluene	µg/kg	dw	0									15	430	2,500	991	780
2-Chloronaphthalene	µg/kg	dw	0									15	430	2,500	991	780
2-Chlorophenol	µg/kg	dw	0									15	430	2,500	991	780
2-Methylphenol	µg/kg	dw	0									15	430	2,500	991	780
2-Nitroaniline	µg/kg	dw	0									15	820	3,200	1,688	1,600
2-Nitrophenol	µg/kg	dw	0									15	430	2,500	991	780
3,3'-Dichlorobenzidine	µg/kg	dw	0									15	430	2,500	991	780
3-Nitroaniline	µg/kg	dw	0									15	820	3,200	1,688	1,600
2-methyl-4,6-Dinitrophenol	µg/kg	dw	0									15	820	3,200	1,688	1,600

Table G1-31. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
4-Bromophenyl-phenyl ether	µg/kg	dw	0									15	430	2,500	991	780
4-Chloro-3-methylphenol	µg/kg	dw	0									15	430	2,500	991	780
4-Chloroaniline	µg/kg	dw	0									15	430	2,500	991	780
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									15	430	2,500	991	780
4-Methylphenol	µg/kg	dw	2	130	170	150	150	28.3	20			13	430	2,500	991	780
4-Nitroaniline	µg/kg	dw	0									15	820	3,200	1,688	1,600
4-Nitrophenol	µg/kg	dw	0									15	820	3,200	1,688	1,600
Benzyl Alcohol	µg/kg	dw	0									5	820	2,500	1,564	1,600
Bis(2-chloroethoxy)methane	µg/kg	dw	0									15	430	2,500	991	780
Bis(2-chloroethyl)ether	µg/kg	dw	0									15	430	2,500	991	780
Bis(2-ethylhexyl)phthalate	µg/kg	dw	6	280	2,200	810	565	696	284	2.21	5.15	9	430	1,600	780	640
Butylbenzyl phthalate	µg/kg	dw	0									15	430	2,500	991	780
Carbazole	µg/kg	dw	5	91	910	554.2	760	409	183	-0.53	-3.20	5	580	840	700	660
Dibenzofuran	µg/kg	dw	3	93	900	471	420	406	234	0.56		12	430	2,500	1,088	830
Diethyl phthalate	µg/kg	dw	0									15	430	2,500	991	780
Dimethyl phthalate	µg/kg	dw	0									15	430	2,500	991	780
Di-n-butyl phthalate	µg/kg	dw	2	370	690	530	530	226	160			13	430	2,500	957	680
Di-n-octyl phthalate	µg/kg	dw	0									15	430	2,500	991	780
Hexachlorobenzene	µg/kg	dw	2	280	340	310	310	42.4	30			13	430	2,500	1,018	680
Hexachlorobutadiene	µg/kg	dw	0									15	430	2,500	991	780
Hexachlorocyclopentadiene	µg/kg	dw	0									15	430	2,500	991	780
Hexachloroethane	µg/kg	dw	0									15	430	2,500	991	780
Isophorone	µg/kg	dw	0									15	430	2,500	991	780
Nitrobenzene	µg/kg	dw	0									15	430	2,500	991	780
N-nitroso-di-n-propylamine	µg/kg	dw	0									15	430	2,500	991	780
N-Nitrosodiphenylamine	µg/kg	dw	0									15	430	2,500	991	780
Pentachlorophenol	µg/kg	dw	0									15	820	3,200	1,688	1,600
Phenol	µg/kg	dw	0									15	430	2,500	991	780
2-Methylnaphthalene	µg/kg	dw	4	94	780	429	420	297	148	0.13	-1.39	11	430	2,500	1,068	820
Acenaphthene	µg/kg	dw	4	67	690	357	335	261	131	0.45	0.46	11	430	2,500	1,068	820
Acenaphthylene	µg/kg	dw	7	95	2,100	459	210	729	275	2.57	6.68	8	580	2,500	1,235	1,070
Anthracene	µg/kg	dw	7	130	2,100	973	940	808	305	0.20	-1.99	8	580	2,500	1,133	830
Benzo(a)anthracene	µg/kg	dw	15	110	7,500	1,663	560	2,209	570	1.70	2.32	0				
Benzo(a)pyrene	µg/kg	dw	14	94	8,500	1,631	570	2,370	633	2.27	5.26	1	2,500	2,500	2,500	2,500
Benzo(b)fluoranthene	µg/kg	dw	14	100	8,800	1,974	705	2,563	685	1.78	2.88	1	2,500	2,500	2,500	2,500
Benzo(g,h,i)perylene	µg/kg	dw	10	93	3,500	1,081	660	1,133	358	1.29	0.90	5	780	2,500	1,308	840
Benzo(k)fluoranthene	µg/kg	dw	14	110	4,800	1,073	605	1,320	353	2.14	4.62	1	680	680	680	680
Chrysene	µg/kg	dw	15	130	11,000	2,178	650	3,050	787	2.07	4.36	0				
Dibenz(a,h)anthracene	µg/kg	dw	0									15	430	2,500	991	780
Fluoranthene	µg/kg	dw	15	180	20,000	3,771	1,200	5,369	1,386	2.26	5.66	0				
Fluorene	µg/kg	dw	6	65	1,200	591	605	446	182	0.17	-1.85	9	580	2,500	1,080	820
Indeno(1,2,3-cd)pyrene	µg/kg	dw	10	78	3,900	1,140	675	1,222	387	1.46	1.84	5	780	2,500	1,308	840
Naphthalene	µg/kg	dw	4	150	2,400	1,085	895	1,001	500	0.84	-0.59	11	430	2,500	1,068	820
Phenanthrene	µg/kg	dw	13	70	7,400	2,055	660	2,588	718	1.20	-0.09	2	1,600	2,500	2,050	2,050
Pyrene	µg/kg	dw	15	200	16,000	3,402	1,100	4,658	1,203	1.88	3.07	0				
Pesticides/Polychlorinated Biphenyls																

Table G1-31. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
4,4'-DDD	µg/kg	dw	0									1	6.6	6.6	6.6	6.6
4,4'-DDE	µg/kg	dw	0									1	6.6	6.6	6.6	6.6
4,4'-DDT	µg/kg	dw	0									1	6.6	6.6	6.6	6.6
Aldrin	µg/kg	dw	0									1	3.4	3.4	3.4	3.4
alpha-BHC	µg/kg	dw	0									1	3.4	3.4	3.4	3.4
alpha-Chlordane	µg/kg	dw	0									1	3.4	3.4	3.4	3.4
beta-BHC	µg/kg	dw	0									1	3.4	3.4	3.4	3.4
delta-BHC	µg/kg	dw	1	18	18	18	18					0				
Endosulfan I	µg/kg	dw	0									1	3.4	3.4	3.4	3.4
Endosulfan II	µg/kg	dw	0									1	6.6	6.6	6.6	6.6
Endosulfan sulfate	µg/kg	dw	0									1	6.6	6.6	6.6	6.6
Endrin	µg/kg	dw	0									1	6.6	6.6	6.6	6.6
Endrin aldehyde	µg/kg	dw	0									1	6.6	6.6	6.6	6.6
Endrin ketone	µg/kg	dw	0									1	6.6	6.6	6.6	6.6
gamma-BHC (Lindane)	µg/kg	dw	0									1	3.4	3.4	3.4	3.4
gamma-Chlordane	µg/kg	dw	0									1	3.4	3.4	3.4	3.4
Heptachlor	µg/kg	dw	0									1	3.4	3.4	3.4	3.4
Heptachlor epoxide	µg/kg	dw	0									1	3.4	3.4	3.4	3.4
Methoxychlor	µg/kg	dw	0									1	34	34	34	34
Toxaphene	µg/kg	dw	0									1	340	340	340	340
Aroclor 1016	µg/kg	dw	3	33	670	260	78	355	205	1.70		12	21	83	47	48.5
Aroclor 1221	µg/kg	dw	0									15	21	260	103	120
Aroclor 1232	µg/kg	dw	0									15	21	130	54.6	57
Aroclor 1242	µg/kg	dw	0									15	21	130	54.6	57
Aroclor 1248	µg/kg	dw	0									15	21	130	54.6	57
Aroclor 1254	µg/kg	dw	2	66	1,300	683	683	873	617			13	21	83	48.6	54
Aroclor 1260	µg/kg	dw	3	39	1,200	435	66	663	383	1.73		12	21	83	47	48.5

Table G1-32. Summary Statistics for Bloody Brook Surface Sediment Samples Collected by NYSDEC in 1996/1997

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Flash point	degC		2	60	60	60	60	0	0			0				
pH	pH		2	8.5	9.1	8.8	8.8	0.42	0.3			0				
Total organic carbon	mg/kg		7	6,710	99,000	30,909	19,700	32,069	12,121	2.01	4.39	0				
Total solids	%		8	55.9	80.3	72.0	76.0	9.75	3.45	-1.29	-0.14	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	9	3,880	7,170	5,210	4,690	1,254	418	0.45	-1.43	0				
Antimony	mg/kg	dw	0									9	0.63	1.1	0.83	0.79
Arsenic	mg/kg	dw	9	1.2	4	2.24	2	0.97	0.32	1.16	0.24	0				
Barium	mg/kg	dw	9	34.1	144	55.6	45.9	34.5	11.5	2.58	7.05	0				
Beryllium	mg/kg	dw	9	0.2	0.41	0.26	0.25	0.06	0.02	2.06	5.27	0				
Cadmium	mg/kg	dw	2	0.38	0.51	0.45	0.45	0.09	0.06			7	0.05	0.11	0.08	0.07
Calcium	mg/kg	dw	9	38,100	92,300	66,244	63,300	18,672	6,224	-0.01	-1.28	0				
Chromium	mg/kg	dw	9	6.5	13	9.32	8.30	2.46	0.82	0.72	-1.23	0				
Cobalt	mg/kg	dw	9	3.3	5.8	4.49	4.40	0.86	0.29	0.07	-1.01	0				
Copper	mg/kg	dw	9	7.7	16.2	12.4	13.3	3.10	1.03	-0.46	-1.41	0				
Cyanide	mg/kg	dw	0									9	0.59	0.89	0.72	0.66
Iron	mg/kg	dw	9	8,610	20,100	12,488	11,200	3,837	1,279	1.12	0.33	0				
Lead	mg/kg	dw	8	3.9	49.2	14.2	9.75	14.8	5.22	2.38	6.05	1	3	3	3	3
Magnesium	mg/kg	dw	9	7,090	12,700	10,571	11,000	1,710	570	-0.99	1.02	0				
Manganese	mg/kg	dw	9	173	304	244	244	44.7	14.9	-0.19	-0.94	0				
Mercury	mg/kg	dw	0									9	0.05	0.09	0.07	0.07
Nickel	mg/kg	dw	9	6.3	13.5	9.19	8.1	2.50	0.83	0.64	-0.89	0				
Potassium	mg/kg	dw	9	933	2,110	1,273	1,150	356	119	1.89	3.96	0				
Selenium	mg/kg	dw	1	0.37	0.37	0.37	0.37					8	0.33	0.98	0.65	0.705
Silver	mg/kg	dw	0									9	0.09	0.32	0.19	0.22
Sodium	mg/kg	dw	9	91.6	226	144	149	51.2	17.1	0.54	-1.14	0				
Thallium	mg/kg	dw	0									9	0.45	0.91	0.65	0.66
Vanadium	mg/kg	dw	9	10.6	18.4	14.1	13.4	2.88	0.96	0.57	-1.35	0				
Zinc	mg/kg	dw	9	25.5	356	95.4	66.9	104	34.7	2.37	6.13	0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									9	12	19	14.1	13
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									9	12	19	14.1	13
1,1,2-Trichloroethane	µg/kg	dw	0									9	12	19	14.1	13
1,1-Dichloroethane	µg/kg	dw	0									9	12	19	14.1	13
1,1-Dichloroethene	µg/kg	dw	0									9	12	19	14.1	13
1,2-Dichloroethane	µg/kg	dw	0									9	12	19	14.1	13
1,2-Dichloroethene isomers (total)	µg/kg	dw	0									9	12	19	14.1	13
1,2-Dichloropropane	µg/kg	dw	0									9	12	19	14.1	13
2-Butanone	µg/kg	dw	1	15	15	15	15					8	12	19	13.6	13
2-Hexanone	µg/kg	dw	0									9	12	19	14.1	13
4-Methyl-2-pentanone	µg/kg	dw	0									9	12	19	14.1	13
Acetone	µg/kg	dw	6	7	43	26	28	16.2	6.62	-0.27	-1.93	3	12	14	13.0	13
Benzene	µg/kg	dw	0									9	12	19	14.1	13
Bromodichloromethane	µg/kg	dw	0									9	12	19	14.1	13

Table G1-32. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Bromoform	µg/kg	dw	0									9	12	19	14.1	13
Bromomethane	µg/kg	dw	0									9	12	19	14.1	13
Carbon disulfide	µg/kg	dw	7	3	9	5.14	4	2.54	0.96	0.71	-1.47	2	12	13	12.5	12.5
Carbon Tetrachloride	µg/kg	dw	0									9	12	19	14.1	13
Chlorobenzene	µg/kg	dw	0									9	12	19	14.1	13
Chloroethane	µg/kg	dw	0									9	12	19	14.1	13
Chloroform	µg/kg	dw	0									9	12	19	14.1	13
Chloromethane	µg/kg	dw	0									9	12	19	14.1	13
Cis-1,3-dichloropropene	µg/kg	dw	0									9	12	19	14.1	13
Dibromochloromethane	µg/kg	dw	0									9	12	19	14.1	13
Ethylbenzene	µg/kg	dw	0									9	12	19	14.1	13
Methylene chloride	µg/kg	dw	3	2	2	2	2	0	0			6	12	19	14.7	13
Styrene	µg/kg	dw	0									9	12	19	14.1	13
Tetrachloroethene	µg/kg	dw	0									9	12	19	14.1	13
Toluene	µg/kg	dw	1	4	4	4	4					8	12	19	13.6	13
Trans-1,3-dichloropropene	µg/kg	dw	0									9	12	19	14.1	13
Trichloroethene	µg/kg	dw	0									9	12	19	14.1	13
Vinyl chloride	µg/kg	dw	0									9	12	19	14.1	13
Xylene isomers (Total)	µg/kg	dw	0									9	12	19	14.1	13
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	0									9	390	600	479	440
1,2-Dichlorobenzene	µg/kg	dw	0									9	390	600	479	440
1,3-Dichlorobenzene	µg/kg	dw	0									9	390	600	479	440
1,4-Dichlorobenzene	µg/kg	dw	0									9	390	600	479	440
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									9	390	600	479	440
2,4,5-Trichlorophenol	µg/kg	dw	0									9	980	1,500	1,198	1,100
2,4,6-Trichlorophenol	µg/kg	dw	0									9	390	600	479	440
2,4-Dichlorophenol	µg/kg	dw	0									9	390	600	479	440
2,4-Dimethylphenol	µg/kg	dw	0									9	390	600	479	440
2,4-Dinitrophenol	µg/kg	dw	0									9	980	1,500	1,198	1,100
2,4-Dinitrotoluene	µg/kg	dw	0									9	390	600	479	440
2,6-Dinitrotoluene	µg/kg	dw	0									9	390	600	479	440
2-Chloronaphthalene	µg/kg	dw	0									9	390	600	479	440
2-Chlorophenol	µg/kg	dw	0									9	390	600	479	440
2-Methylphenol	µg/kg	dw	0									9	390	600	479	440
2-Nitroaniline	µg/kg	dw	0									9	980	1,500	1,198	1,100
2-Nitrophenol	µg/kg	dw	0									9	390	600	479	440
3,3'-Dichlorobenzidine	µg/kg	dw	2	45	180	113	113	95.5	67.5			7	390	600	492.857	440
3-Nitroaniline	µg/kg	dw	0									9	980	1,500	1,198	1,100
2-Methyl-4,6-dinitrophenol	µg/kg	dw	0									9	980	1,500	1,198	1,100
4-Bromophenyl-phenyl ether	µg/kg	dw	0									9	390	600	479	440
4-Chloro-3-methylphenol	µg/kg	dw	0									9	390	600	479	440
4-Chloroaniline	µg/kg	dw	0									9	390	600	479	440
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									9	390	600	479	440
4-Methylphenol	µg/kg	dw	0									9	390	600	479	440
4-Nitroaniline	µg/kg	dw	0									9	980	1,500	1,198	1,100
4-Nitrophenol	µg/kg	dw	0									9	980	1,500	1,198	1,100

Table G1-32. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Bis(2-chloroethoxy)methane	µg/kg	dw	0									9	390	600	479	440
Bis(2-chloroethyl)ether	µg/kg	dw	0									9	390	600	479	440
Bis(2-ethylhexyl)phthalate	µg/kg	dw	9	51	400	190	140	112	37.4	0.68	-0.21	0				
Butylbenzyl phthalate	µg/kg	dw	0									9	390	600	479	440
Carbazole	µg/kg	dw	5	74	170	133	140	38.1	17.0	-1.01	0.60	4	420	580	465	430
Dibenzofuran	µg/kg	dw	1	45	45	45	45					8	420	600	490	440
Diethyl phthalate	µg/kg	dw	0									9	390	600	479	440
Dimethyl phthalate	µg/kg	dw	0									9	390	600	479	440
Di-n-butyl phthalate	µg/kg	dw	0									9	390	600	479	440
Di-n-octyl phthalate	µg/kg	dw	0									9	390	600	479	440
Hexachlorobenzene	µg/kg	dw	0									9	390	600	479	440
Hexachlorobutadiene	µg/kg	dw	0									9	390	600	479	440
Hexachlorocyclopentadiene	µg/kg	dw	0									9	390	600	479	440
Hexachloroethane	µg/kg	dw	0									9	390	600	479	440
Isophorone	µg/kg	dw	0									9	390	600	479	440
Nitrobenzene	µg/kg	dw	0									9	390	600	479	440
N-nitroso-di-n-propylamine	µg/kg	dw	0									9	390	600	479	440
N-Nitrosodiphenylamine	µg/kg	dw	0									9	390	600	479	440
Pentachlorophenol	µg/kg	dw	0									9	980	1,500	1,198	1,100
Phenol	µg/kg	dw	0									9	390	600	479	440
2-Methylnaphthalene	µg/kg	dw	0									9	390	600	479	440
Acenaphthene	µg/kg	dw	4	62	80	73.5	76	7.90	3.95	-1.65	3.10	5	420	580	488	440
Acenaphthylene	µg/kg	dw	2	57	250	154	154	136	96.5			7	420	600	497	440
Anthracene	µg/kg	dw	6	44	250	181	205	73.6	30.1	-1.58	2.74	3	420	580	480	440
Benzo(a)anthracene	µg/kg	dw	7	270	1,400	850	990	486	184	-0.22	-2.28	2	420	440	430	430
Benzo(a)pyrene	µg/kg	dw	9	57	1,700	863	590	677	226	0.22	-2.12	0				
Benzo(b)fluoranthene	µg/kg	dw	9	63	1,800	837	400	702	234	0.38	-2.02	0				
Benzo(g,h,i)perylene	µg/kg	dw	9	56	1,600	694	370	556	185	0.47	-1.52	0				
Benzo(k)fluoranthene	µg/kg	dw	9	65	1,600	758	440	561	187	0.29	-1.82	0				
Chrysene	µg/kg	dw	9	57	1,800	873	610	704	235	0.33	-1.90	0				
Dibenz(a,h)anthracene	µg/kg	dw	0									9	390	600	479	440
Fluoranthene	µg/kg	dw	9	100	2,600	1,309	810	988	329	0.31	-1.89	0				
Fluorene	µg/kg	dw	4	65	130	94.8	92	30.5	15.3	0.28	-3.61	5	420	580	488	440
Indeno(1,2,3-cd)pyrene	µg/kg	dw	9	48	1,500	702	320	584	195	0.33	-2.10	0				
Naphthalene	µg/kg	dw	0									9	390	600	479	440
Phenanthrene	µg/kg	dw	8	120	990	549	635	341	120	-0.21	-1.85	1	1,100	1,100	1,100	1,100
Pyrene	µg/kg	dw	9	97	3,200	1,440	1,100	1,124	375	0.34	-1.60	0				
Polychlorinated Biphenyls																
Aroclor 1016	µg/kg	dw	0									10	39	59	47	43.5
Aroclor 1221	µg/kg	dw	0									10	79	120	95.9	88
Aroclor 1232	µg/kg	dw	0									10	39	59	47	43.5
Aroclor 1242	µg/kg	dw	0									10	39	59	47	43.5
Aroclor 1248	µg/kg	dw	0									10	39	59	47	43.5
Aroclor 1254	µg/kg	dw	8	24	1,200	262	135	387	137	2.61	7.05	2	39	42	40.5	40.5
Aroclor 1260	µg/kg	dw	1	28	28	28	28					9	39	59	47.4	44

Table G1-33. Summary Statistics for Sawmill Creek Surface Sediment Samples Collected by NYSDEC in 1996/1997

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Total organic carbon	mg/kg		2	43,500	91,700	67,600	67,600	34,083	24,100			0				
Total solids	%		4	46.1	84.5	62.0	58.8	16.9	8.43	0.91	-0.03	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	6	2,800	16,100	8,767	8,450	5,636	2,301	0.18	-2.46	0				
Antimony	mg/kg	dw	0									6	0.93	5.3	3.32	3.8
Arsenic	mg/kg	dw	2	6.7	10.9	8.8	8.8	2.97	2.1			4	0.57	0.88	0.74	0.76
Barium	mg/kg	dw	6	12	142	76.4	70.2	50.5	20.6	0.09	-1.77	0				
Beryllium	mg/kg	dw	6	0.21	0.75	0.52	0.57	0.23	0.09	-0.49	-1.73	0				
Cadmium	mg/kg	dw	3	0.33	2.8	1.21	0.49	1.38	0.80	1.71		1	0.07	0.07	0.07	0.07
Calcium	mg/kg	dw	6	9,800	42,500	23,550	21,000	12,146	4,959	0.65	-0.56	0				
Chromium	mg/kg	dw	6	8.7	147	39.2	19.9	53.4	21.8	2.34	5.56	0				
Cobalt	mg/kg	dw	6	5	15	8.8	7.85	3.90	1.59	0.81	-0.55	0				
Copper	mg/kg	dw	6	27	85	46.9	41	22.1	9.02	1.17	0.87	0				
Cyanide	mg/kg	dw	0									2	0.77	0.95	0.86	0.86
Iron	mg/kg	dw	6	5,600	24,800	14,867	14,250	8,055	3,289	0.10	-2.48	0				
Lead	mg/kg	dw	6	17	444	99.8	36.5	169	68.9	2.43	5.94	0				
Magnesium	mg/kg	dw	6	2,400	13,600	7,650	7,000	4,473	1,826	0.31	-1.65	0				
Manganese	mg/kg	dw	6	190	1,660	648	475	567	231	1.36	1.55	0				
Mercury	mg/kg	dw	0									6	0.07	0.1	0.09	0.1
Nickel	mg/kg	dw	6	13	88.5	39.5	32.5	26.6	10.9	1.50	2.60	0				
Potassium	mg/kg	dw	6	270	3,790	2,175	2,095	1,396	570	-0.14	-1.79	0				
Selenium	mg/kg	dw	0									6	0.28	1.1	0.58	0.43
Silver	mg/kg	dw	4	0.14	0.5	0.28	0.25	0.15	0.08	1.33	2.37	2	0.28	0.34	0.31	0.31
Sodium	mg/kg	dw	6	153	390	235	223	83.3	34.0	1.56	2.99	0				
Thallium	mg/kg	dw	0									6	0.57	0.99	0.79	0.82
Vanadium	mg/kg	dw	6	10	32.3	21.8	23.2	10.3	4.21	-0.24	-2.37	0				
Zinc	mg/kg	dw	6	49	1,880	443	175	707	289	2.40	5.82	0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									6	15	33	21.7	19
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									6	15	33	21.7	19
1,1,2-Trichloroethane	µg/kg	dw	0									6	15	33	21.7	19
1,1-Dichloroethane	µg/kg	dw	0									6	15	33	21.7	19
1,1-Dichloroethene	µg/kg	dw	0									6	15	33	21.7	19
1,2-Dichloroethane	µg/kg	dw	0									6	15	33	21.7	19
1,2-Dichloroethene isomers (total)	µg/kg	dw	0									5	15	33	20.4	19
1,2-Dichloropropane	µg/kg	dw	0									6	15	33	21.7	19
2-Butanone	µg/kg	dw	0									6	15	33	21.7	19
2-Chlorotoluene	µg/kg	dw	0									4	16	33	24	23.5
2-Hexanone	µg/kg	dw	0									6	15	33	21.7	19
4-Chlorotoluene	µg/kg	dw	0									4	16	33	24	23.5

Table G1-33. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
4-Methyl-2-pentanone	µg/kg	dw	0									6	15	33	21.7	19
Acetone	µg/kg	dw	0									6	15	33	21.7	19
Benzene	µg/kg	dw	0									6	15	33	21.7	19
Bromodichloromethane	µg/kg	dw	0									6	15	33	21.7	19
Bromoform	µg/kg	dw	0									6	15	33	21.7	19
Bromomethane	µg/kg	dw	0									6	15	33	21.7	19
Carbon disulfide	µg/kg	dw	0									6	15	33	21.7	19
Carbon Tetrachloride	µg/kg	dw	0									6	15	33	21.7	19
Chlorobenzene	µg/kg	dw	0									6	15	33	21.7	19
Chloroethane	µg/kg	dw	0									6	15	33	21.7	19
Chloroform	µg/kg	dw	0									6	15	33	21.7	19
Chloromethane	µg/kg	dw	0									2	15	19	17	17
Cis-1,2-dichloroethene	µg/kg	dw	0									4	16	33	24	23.5
Cis-1,3-dichloropropene	µg/kg	dw	0									6	15	33	21.7	19
Dibromochloromethane	µg/kg	dw	0									6	15	33	21.7	19
Ethylbenzene	µg/kg	dw	0									6	15	33	21.7	19
Methylene chloride	µg/kg	dw	3	16	30	22	20	7.21	4.16	1.15		3	15	33	22.3	19
Styrene	µg/kg	dw	0									6	15	33	21.7	19
Tetrachloroethene	µg/kg	dw	0									6	15	33	21.7	19
Toluene	µg/kg	dw	1	13	13	13	13					5	15	28	19.4	19
trans-1,2-Dichloroethene	µg/kg	dw	0									4	16	33	24	23.5
Trans-1,3-dichloropropene	µg/kg	dw	0									6	15	33	21.7	19
Trichloroethene	µg/kg	dw	0									6	15	33	21.7	19
Trichlorofluoromethane	µg/kg	dw	3	32	120	65	43	47.9	27.7	1.63		1	28	28	28	28
Vinyl chloride	µg/kg	dw	0									6	15	33	21.7	19
meta & para Xylenes	µg/kg	dw	0									4	16	33	24	23.5
ortho-Xylene	µg/kg	dw	0									4	16	33	24	23.5
Xylene isomers (Total)	µg/kg	dw	0									2	15	19	17	17
Semivolatile Organic Compounds																
1,2,3-Trichlorobenzene	µg/kg	dw	0									4	16	33	24	23.5
1,2,4-Trichlorobenzene	µg/kg	dw	0									10	16	960	420	540
1,2-Dichlorobenzene	µg/kg	dw	0									10	16	960	420	540
1,3-Dichlorobenzene	µg/kg	dw	0									10	16	960	420	540
1,4-Dichlorobenzene	µg/kg	dw	0									10	16	960	420	540
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									6	510	960	683	655
2,4,5-Trichlorophenol	µg/kg	dw	0									6	570	1,600	977	855
2,4,6-Trichlorophenol	µg/kg	dw	0									6	510	960	683	655
2,4-Dichlorophenol	µg/kg	dw	0									6	510	960	683	655
2,4-Dimethylphenol	µg/kg	dw	0									6	510	960	683	655
2,4-Dinitrophenol	µg/kg	dw	0									6	570	1,600	977	855
2,4-Dinitrotoluene	µg/kg	dw	0									6	510	960	683	655
2,6-Dinitrotoluene	µg/kg	dw	0									6	510	960	683	655
2-Chloronaphthalene	µg/kg	dw	0									6	510	960	683	655
2-Chlorophenol	µg/kg	dw	0									6	510	960	683	655

Table G1-33. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
2-Methylphenol	µg/kg	dw	0									6	510	960	683	655
2-Nitroaniline	µg/kg	dw	0									6	570	1,600	977	855
2-Nitrophenol	µg/kg	dw	0									6	510	960	683	655
3,3'-Dichlorobenzidine	µg/kg	dw	0									6	510	960	683	655
3-Nitroaniline	µg/kg	dw	0									6	570	1,600	977	855
2-Methyl-4,6-dinitrophenol	µg/kg	dw	0									6	570	1,600	977	855
4-Bromophenyl-phenyl ether	µg/kg	dw	0									6	510	960	683	655
4-Chloro-3-methylphenol	µg/kg	dw	0									6	510	960	683	655
4-Chloroaniline	µg/kg	dw	0									6	510	960	683	655
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									6	510	960	683	655
4-Methylphenol	µg/kg	dw	0									6	510	960	683	655
4-Nitroaniline	µg/kg	dw	0									6	570	1,600	977	855
4-Nitrophenol	µg/kg	dw	0									6	570	1,600	977	855
Benzyl Alcohol	µg/kg	dw	0									4	570	960	740	715
Bis(2-chloroethoxy)methane	µg/kg	dw	0									6	510	960	683	655
Bis(2-chloroethyl)ether	µg/kg	dw	0									6	510	960	683	655
Bis(2-ethylhexyl)phthalate	µg/kg	dw	2	190	330	260	260	99.0	70			4	510	960	713	690
Butylbenzyl phthalate	µg/kg	dw	0									6	510	960	683	655
Carbazole	µg/kg	dw	2	55	97	76	76	29.7	21			0				
Dibenzofuran	µg/kg	dw	0									6	510	960	683	655
Diethyl phthalate	µg/kg	dw	0									6	510	960	683	655
Dimethyl phthalate	µg/kg	dw	0									6	510	960	683	655
Di-n-butyl phthalate	µg/kg	dw	1	230	230	230	230					5	510	960	670	630
Di-n-octyl phthalate	µg/kg	dw	0									6	510	960	683	655
Hexachlorobenzene	µg/kg	dw	0									6	510	960	683	655
Hexachlorobutadiene	µg/kg	dw	0									6	510	960	683	655
Hexachlorocyclopentadiene	µg/kg	dw	0									6	510	960	683	655
Hexachloroethane	µg/kg	dw	0									6	510	960	683	655
Isophorone	µg/kg	dw	0									6	510	960	683	655
Nitrobenzene	µg/kg	dw	0									6	510	960	683	655
N-nitroso-di-n-propylamine	µg/kg	dw	0									6	510	960	683	655
N-Nitrosodiphenylamine	µg/kg	dw	0									6	510	960	683	655
Pentachlorophenol	µg/kg	dw	0									6	570	1,600	977	855
Phenol	µg/kg	dw	0									6	510	960	683	655
2-Methylnaphthalene	µg/kg	dw	0									6	510	960	683	655
Acenaphthene	µg/kg	dw	0									6	510	960	683	655
Acenaphthylene	µg/kg	dw	2	80	130	105	105	35.4	25			4	570	960	740	715
Anthracene	µg/kg	dw	3	81	510	247	150	230	133	1.56		3	570	750	667	680
Benzo(a)anthracene	µg/kg	dw	5	190	2,300	688	360	905	405	2.19	4.84	1	750	750	750	750
Benzo(a)pyrene	µg/kg	dw	4	360	2,200	893	505	875	438	1.95	3.82	2	680	750	715	715
Benzo(b)fluoranthene	µg/kg	dw	4	550	1,800	1,005	835	561	281	1.41	1.74	2	680	750	715	715
Benzo(g,h,i)perylene	µg/kg	dw	4	210	830	398	275	291	145	1.90	3.68	2	680	750	715	715
Benzo(k)fluoranthene	µg/kg	dw	4	540	2,600	1,168	765	961	481	1.92	3.77	2	680	750	715	715
Chrysene	µg/kg	dw	5	210	2,300	858	530	830	371	1.92	3.92	1	750	750	750	750

Table G1-33. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Dibenz(a,h)anthracene	µg/kg	dw	0									6	510	960	683	655
Fluoranthene	µg/kg	dw	5	410	4,100	1,374	820	1,539	688	2.13	4.63	1	750	750	750	750
Fluorene	µg/kg	dw	0									6	510	960	683	655
Indeno(1,2,3-cd)pyrene	µg/kg	dw	4	200	900	415	280	326	163	1.89	3.62	2	680	750	715	715
Naphthalene	µg/kg	dw	0									6	510	960	683	655
Phenanthrene	µg/kg	dw	5	180	2,100	660	390	812	363	2.14	4.66	1	750	750	750	750
Pyrene	µg/kg	dw	5	520	4,400	1,502	860	1,644	735	2.08	4.41	1	750	750	750	750
Polychlorinated Biphenyls																
Aroclor 1016	µg/kg	dw	0									6	23	63	34.7	24
Aroclor 1221	µg/kg	dw	0									6	23	130	54.0	24
Aroclor 1232	µg/kg	dw	0									6	23	63	34.7	24
Aroclor 1242	µg/kg	dw	0									6	23	63	34.7	24
Aroclor 1248	µg/kg	dw	0									6	23	63	34.7	24
Aroclor 1254	µg/kg	dw	0									6	23	63	34.7	24
Aroclor 1260	µg/kg	dw	3	32	100	59	45	36.1	20.8	1.48		3	23	25	23.7	23

Table G1-34. Summary Statistics for Lower East Flume Sediment Samples Collected by Honeywell/O'Brien & Gere in 1998

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Percent Solids	%	dw	15	33.1	69.9	52.7	50.8	10.5	2.71	-0.11	-0.81	0				
Total organic carbon	mg/kg	dw	15	5,920	108,000	52,081	48,300	29,130	7,521	0.50	-0.47	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	1	3,380	3,380	3,380	3,380					0				
Antimony	mg/kg	dw	1	1.9	1.9	1.9	1.9					0				
Arsenic	mg/kg	dw	1	24.6	24.6	24.6	24.6					0				
Barium	mg/kg	dw	1	268	268	268	268					0				
Beryllium	mg/kg	dw	1	0.57	0.57	0.57	0.57					0				
Cadmium	mg/kg	dw	1	0.73	0.73	0.73	0.73					0				
Calcium	mg/kg	dw	1	152,000	152,000	152,000	152,000					0				
Chromium	mg/kg	dw	1	18.9	18.9	18.9	18.9					0				
Cobalt	mg/kg	dw	1	5	5	5	5					0				
Copper	mg/kg	dw	1	34.2	34.2	34.2	34.2					0				
Iron	mg/kg	dw	1	18,900	18,900	18,900	18,900					0				
Lead	mg/kg	dw	1	87.3	87.3	87.3	87.3					0				
Magnesium	mg/kg	dw	1	3,370	3,370	3,370	3,370					0				
Manganese	mg/kg	dw	1	196	196	196	196					0				
Mercury	mg/kg	dw	1	2.4	2.4	2.4	2.4					0				
Nickel	mg/kg	dw	1	23.3	23.3	23.3	23.3					0				
Potassium	mg/kg	dw	1	839	839	839	839					0				
Selenium	mg/kg	dw	1	2.6	2.6	2.6	2.6					0				
Silver	mg/kg	dw	0									1	0.09	0.09	0.09	0.09
Sodium	mg/kg	dw	1	2,040	2,040	2,040	2,040					0				
Thallium	mg/kg	dw	0									1	0.3	0.3	0.3	0.3
Vanadium	mg/kg	dw	1	11.5	11.5	11.5	11.5					0				
Zinc	mg/kg	dw	1	105	105	105	105					0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									1	16	16	16	16
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									1	16	16	16	16
1,1,2-Trichloroethane	µg/kg	dw	0									1	16	16	16	16
1,1-Dichloroethane	µg/kg	dw	0									1	16	16	16	16
1,1-Dichloroethene	µg/kg	dw	0									1	16	16	16	16
1,2-Dichloroethane	µg/kg	dw	0									1	16	16	16	16
1,2-Dichloropropane	µg/kg	dw	0									1	16	16	16	16
2-Butanone	µg/kg	dw	0									1	16	16	16	16
2-Hexanone	µg/kg	dw	0									1	16	16	16	16
4-Methyl-2-pentanone	µg/kg	dw	0									1	16	16	16	16
Acetone	µg/kg	dw	1	17	17	17	17					0				
Benzene	µg/kg	dw	1	5,500	5,500	5,500	5,500					0				
Bromodichloromethane	µg/kg	dw	0									1	16	16	16	16
Bromoform	µg/kg	dw	0									1	16	16	16	16
Bromomethane	µg/kg	dw	0									1	16	16	16	16
Carbon disulfide	µg/kg	dw	1	7	7	7	7					0				

Table G1-34. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	DETECTS Minimum Detection	DETECTS Maximum Detection	DETECTS Mean	DETECTS Median	DETECTS Standard Deviation	DETECTS Standard Error	DETECTS Skewness	DETECTS Kurtosis	NON-DETECTS N	NON-DETECTS Minimum Detection Limit	NON-DETECTS Maximum Detection Limit	NON-DETECTS Mean	NON-DETECTS Median
Carbon Tetrachloride	µg/kg	dw	0									1	16	16	16	16
Chlorobenzene	µg/kg	dw	1	460,000	460,000	460,000	460,000					0				
Chloroethane	µg/kg	dw	0									1	16	16	16	16
Chloroform	µg/kg	dw	0									1	16	16	16	16
Chloromethane	µg/kg	dw	0									1	16	16	16	16
cis-1,2-Dichloroethene	µg/kg	dw	0									1	16	16	16	16
Cis-1,3-dichloropropene	µg/kg	dw	0									1	16	16	16	16
Dibromochloromethane	µg/kg	dw	0									1	16	16	16	16
Ethylbenzene	µg/kg	dw	0									1	16	16	16	16
Methylene chloride	µg/kg	dw	0									1	16	16	16	16
Styrene	µg/kg	dw	0									1	16	16	16	16
Tetrachloroethene	µg/kg	dw	0									1	16	16	16	16
Toluene	µg/kg	dw	1	80	80	80	80					0				
Trans-1,3-dichloropropene	µg/kg	dw	0									1	16	16	16	16
Trichloroethene	µg/kg	dw	0									1	16	16	16	16
Vinyl chloride	µg/kg	dw	0									1	16	16	16	16
Xylene (Total)	µg/kg	dw	1	120	120	120	120					0				
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	1	18,000	18,000	18,000	18,000					0				
1,2-Dichlorobenzene	µg/kg	dw	1	72,000	72,000	72,000	72,000					0				
1,3-Dichlorobenzene	µg/kg	dw	1	200,000	200,000	200,000	200,000					0				
1,4-Dichlorobenzene	µg/kg	dw	1	1,000,000	1,000,000	1,000,000	1,000,000					0				
2,2'-Oxybis(1-chloropropane)																
2,4,5-Trichlorophenol	µg/kg	dw	0									1	6,500	6,500	6,500	6,500
2,4,6-Trichlorophenol	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
2,4-Dichlorophenol	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
2,4-Dimethylphenol	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
2,4-Dinitrophenol	µg/kg	dw	0									1	6,500	6,500	6,500	6,500
2,4-Dinitrotoluene	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
2,6-Dinitrotoluene	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
2-Chloronaphthalene	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
2-Chlorophenol	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
2-Methylphenol	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
2-Nitroaniline	µg/kg	dw	0									1	6,500	6,500	6,500	6,500
2-Nitrophenol	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
3,3-Dichlorobenzidine	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
3-Nitroaniline	µg/kg	dw	0									1	6,500	6,500	6,500	6,500
4,6-Dinitro-2-methylphenol	µg/kg	dw	0									1	6,500	6,500	6,500	6,500
4-Bromophenyl-phenyl ether	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
4-Chloro-3-methylphenol	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
4-Chloroaniline	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
4-Methylphenol	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
4-Nitroaniline	µg/kg	dw	0									1	6,500	6,500	6,500	6,500
4-Nitrophenol	µg/kg	dw	0									1	6,500	6,500	6,500	6,500
Bis(2-chloroethoxy)methane	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
Bis(2-chloroethyl)ether	µg/kg	dw	0									1	2,600	2,600	2,600	2,600

Table G1-34. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	DETECTS Minimum Detection	DETECTS Maximum Detection	DETECTS Mean	DETECTS Median	DETECTS Standard Deviation	DETECTS Standard Error	DETECTS Skewness	DETECTS Kurtosis	NON-DETECTS N	NON-DETECTS Minimum Detection Limit	NON-DETECTS Maximum Detection Limit	NON-DETECTS Mean	NON-DETECTS Median
Bis(2-ethylhexyl)phthalate	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
Butylbenzylphthalate	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
Carbazole	µg/kg	dw	1	1,900	1,900	1,900	1,900					0				
Dibenzofuran	µg/kg	dw	1	1,700	1,700	1,700	1,700					0				
Diethylphthalate	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
Dimethylphthalate	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
Di-n-butylphthalate	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
Di-n-octylphthalate	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
Hexachlorobenzene	µg/kg	dw	1	1,300	1,300	1,300	1,300					0				
Hexachlorobutadiene	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
Hexachlorocyclopentadiene	µg/kg	dw	0									1	3,400	3,400	3,400	3,400
Hexachloroethane	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
Isophorone	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
Nitrobenzene	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
N-nitroso-di-n-propylamine	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
N-Nitrosodiphenylamine	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
Pentachlorophenol	µg/kg	dw	0									1	6,500	6,500	6,500	6,500
Phenol	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
2-Methylnaphthalene	µg/kg	dw	1	2,900	2,900	2,900	2,900					0				
Acenaphthene	µg/kg	dw	1	2,800	2,800	2,800	2,800					0				
Acenaphthylene	µg/kg	dw	1	1,400	1,400	1,400	1,400					0				
Anthracene	µg/kg	dw	1	5,400	5,400	5,400	5,400					0				
Benzo(a)anthracene	µg/kg	dw	1	19,000	19,000	19,000	19,000					0				
Benzo(a)pyrene	µg/kg	dw	1	13,000	13,000	13,000	13,000					0				
Benzo(b)fluoranthene	µg/kg	dw	1	14,000	14,000	14,000	14,000					0				
Benzo(g,h,i)perylene	µg/kg	dw	1	10,000	10,000	10,000	10,000					0				
Benzo(k)fluoranthene	µg/kg	dw	1	9,000	9,000	9,000	9,000					0				
Chrysene	µg/kg	dw	1	17,000	17,000	17,000	17,000					0				
Dibenz(a,h)anthracene	µg/kg	dw	0									1	2,600	2,600	2,600	2,600
Fluoranthene	µg/kg	dw	1	43,000	43,000	43,000	43,000					0				
Fluorene	µg/kg	dw	1	3,300	3,300	3,300	3,300					0				
Indeno(1,2,3-cd)pyrene	µg/kg	dw	1	10,000	10,000	10,000	10,000					0				
Naphthalene	µg/kg	dw	1	3,500	3,500	3,500	3,500					0				
Phenanthrene	µg/kg	dw	1	19,000	19,000	19,000	19,000					0				
Pyrene	µg/kg	dw	1	32,000	32,000	32,000	32,000					0				
Pesticides/Polychlorinated Biphenyls																
4,4'-DDD	µg/kg	dw	0									1	52	52	52	52
4,4'-DDE	µg/kg	dw	1	65	65	65	65					0				
4,4'-DDT	µg/kg	dw	0									1	52	52	52	52
Aldrin	µg/kg	dw	0									1	27	27	27	27
alpha-BHC	µg/kg	dw	0									1	27	27	27	27
alpha-Chlordane	µg/kg	dw	0									1	27	27	27	27
beta-BHC	µg/kg	dw	0									1	27	27	27	27
delta-BHC	µg/kg	dw	0									1	27	27	27	27
Dieldrin	µg/kg	dw	0									1	52	52	52	52
Endosulfan I	µg/kg	dw	0									1	27	27	27	27
Endosulfan II	µg/kg	dw	0									1	52	52	52	52

Table G1-34. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Endosulfan sulfate	µg/kg	dw	0									1	52	52	52	52
Endrin	µg/kg	dw	0									1	52	52	52	52
Endrin aldehyde	µg/kg	dw	0									1	52	52	52	52
Endrin ketone	µg/kg	dw	0									1	52	52	52	52
gamma-BHC (Lindane)	µg/kg	dw	0									1	27	27	27	27
gamma-Chlordane	µg/kg	dw	1	21	21	21	21					0				
Heptachlor	µg/kg	dw	0									1	27	27	27	27
Heptachlor epoxide	µg/kg	dw	0									1	27	27	27	27
Methoxychlor	µg/kg	dw	1	140	140	140	140					0				
Toxaphene	µg/kg	dw	0									1	2700	2700	2700	2700
Aroclor 1016	µg/kg	dw	0									1	520	520	520	520
Aroclor 1221	µg/kg	dw	0									1	1000	1000	1000	1000
Aroclor 1232	µg/kg	dw	0									1	520	520	520	520
Aroclor 1242	µg/kg	dw	0									1	520	520	520	520
Aroclor 1248	µg/kg	dw	1	2,400	2,400	2,400	2,400					0				
Aroclor 1254	µg/kg	dw	0									1	520	520	520	520
Aroclor 1260	µg/kg	dw	0									1	520	520	520	520
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	13	1.05	8.76	4.25	3.52	2.29	0.63	0.86	-0.01	2	3.97	4.1	4.04	4.04
Total TCDDs	ng/kg	dw	15	76.5	487	180	127	133	34.2	1.55	1.15	0				
1,2,3,7,8-PeCDD	ng/kg	dw	15	6.37	23.5	15.4	14.3	5.97	1.54	0.09	-1.65	0				
Total PeCDDs	ng/kg	dw	15	68.3	282	169	143	73.7	19.0	0.42	-1.38	0				
1,2,3,4,7,8-HxCDD	ng/kg	dw	14	5.69	23.2	14.0	12.6	6.34	1.70	0.14	-1.61	1	5.13	5.13	5.13	5.13
1,2,3,6,7,8-HxCDD	ng/kg	dw	15	12	55.3	31.0	27.8	12.4	3.19	0.35	-0.82	0				
1,2,3,7,8,9-HxCDD	ng/kg	dw	15	9.68	34.5	18.8	19.4	9.01	2.33	0.55	-1.08	0				
Total HxCDDs	ng/kg	dw	15	107	346	199	165	76.0	19.6	0.54	-0.95	0				
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	15	74	400	154	125	88.2	22.8	1.87	3.52	0				
Total HpCDDs	ng/kg	dw	15	137	717	289	238	156	40.3	1.80	3.20	0				
OCDD	ng/kg	dw	15	322	2,570	933	873	658	170	1.37	1.41	0				
2,3,7,8-TCDF	ng/kg	dw	23	37.4	1,930	421	124	560	117	1.79	2.11	0				
Total TCDFs	ng/kg	dw	15	404	10,200	2,756	1,370	2,979	769	1.59	1.80	0				
1,2,3,7,8-PeCDF	ng/kg	dw	14	15.3	315	75.9	34.8	91.5	24.5	1.86	2.68	1	74.2	74.2	74.2	74.2
2,3,4,7,8-PeCDF	ng/kg	dw	15	41.3	1,180	298	127	356	92.0	1.82	2.45	0				
Total PeCDFs	ng/kg	dw	15	190	3,730	871	465	934	241	2.36	6.12	0				
1,2,3,4,7,8-HxCDF	ng/kg	dw	15	28.3	218	93.3	62.9	63.7	16.4	0.85	-0.60	0				
1,2,3,6,7,8-HxCDF	ng/kg	dw	15	8.74	35.4	19.3	17	9.65	2.49	0.49	-1.29	0				
1,2,3,7,8,9-HxCDF	ng/kg	dw	6	1.01	6.03	2.58	1.62	2.06	0.84	1.20	0.09	9	1.61	7.27	3.86	3.54
2,3,4,6,7,8-HxCDF	ng/kg	dw	15	4	17.1	9.04	6.55	4.60	1.19	0.71	-1.07	0				
Total HxCDFs	ng/kg	dw	15	91.9	418	213	157	116	30.0	0.57	-1.21	0				
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	15	26.2	147	55.0	41.6	36.6	9.45	1.71	1.88	0				
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	15	4.97	23.7	13.7	13.5	6.80	1.76	0.16	-1.68	0				
Total HpCDFs	ng/kg	dw	15	53.5	318	114	87.9	79.1	20.4	1.72	2.18	0				
OCDF	ng/kg	dw	15	46.2	382	139	103	101	26.1	1.41	1.18	0				

Table G1-35. Summary Statistics for Upper East Flume Sediment Samples Collected in 1998 by Honeywell/O'Brien & Gere

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Percent Solids	%	dw	25	40	62.2	51.1	51.6	4.90	0.98	-0.17	0.51	0				
Total organic carbon	mg/kg	dw	10	46,400	139,000	69,140	57,550	32,477	10,270	1.72	1.71	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	7		6,260	5,053	4,910	945	357	-0.11	-1.50	0				
Antimony	mg/kg	dw	0									7	0.99	1.2	1.13	1.1
Arsenic	mg/kg	dw	7	11	22	15.2	14.5	3.36	1.27	1.43	3.52	0				
Barium	mg/kg	dw	7	131	169	150	149	14.8	5.61	-0.24	-1.52	0				
Beryllium	mg/kg	dw	7	0.30	0.46	0.39	0.41	0.06	0.02	-0.28	-1.74	0				
Cadmium	mg/kg	dw	7	1.2	1.6	1.4	1.4	0.17	0.07	-2.8E-15	-1.98	0				
Calcium	mg/kg	dw	7	166,000	297,000	227,429	225,000	47,010	17,768	0.43	-0.90	0				
Chromium	mg/kg	dw	7	31	44.1	37	36.3	4.85	1.83	0.50	-1.16	0				
Cobalt	mg/kg	dw	7	4.6	7	5.74	6	0.90	0.34	0.09	-1.57	0				
Copper	mg/kg	dw	7	86	114	99.1	99.6	10.8	4.09	-0.08	-1.18	0				
Cyanide	mg/kg	dw	0									7	0.85	1	0.96	0.98
Iron	mg/kg	dw	7	10,100	15,000	12,543	13,400	1,924	727	-0.20	-1.90	0				
Lead	mg/kg	dw	7	77	110	89.7	91.6	11.7	4.41	0.71	0.03	0				
Magnesium	mg/kg	dw	7	12,700	18,900	15,657	15,700	2,211	836	0.12	-1.22	0				
Manganese	mg/kg	dw	7	199	315	246	229	42.7	16.1	0.68	-0.80	0				
Mercury	mg/kg	dw	15	0.90	2.1	1.56	1.6	0.41	0.11	-0.11	-1.28	0				
Nickel	mg/kg	dw	7	15	20.6	17.6	18.6	2.10	0.79	-0.16	-1.26	0				
Potassium	mg/kg	dw	7	464	969	699	704	169	64.1	0.15	-0.06	0				
Selenium	mg/kg	dw	6	2.0	2.8	2.42	2.45	0.29	0.12	-0.25	-0.47	1	1.8	1.8	1.8	1.8
Silver	mg/kg	dw	6	0.44	0.89	0.60	0.51	0.20	0.08	0.89	-1.54	1	0.43	0.43	0.43	0.43
Sodium	mg/kg	dw	7	1,510	3,880	2,391	1,970	922	348	1.10	-0.62	0				
Thallium	mg/kg	dw	0									7	2.5	3	2.87	2.9
Vanadium	mg/kg	dw	7	19	27.1	22.6	22.1	2.89	1.09	0.39	-0.85	0				
Zinc	mg/kg	dw	7	393	571	494	520	67.0	25.3	-0.83	-0.86	0				
Volatile Organic Compounds																
1,1,1,2-Tetrachloroethane	µg/kg	dw	0									8	4.8	9.3	5.8	5.4
1,1,1-Trichloroethane	µg/kg	dw	0									16	4.8	41	13.9	13.2
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									16	4.8	41	13.9	13.2
1,1,2-Trichloroethane	µg/kg	dw	0									16	4.8	41	13.9	13.2
1,1-Dichloroethane	µg/kg	dw	0									16	4.8	41	13.9	13.2
1,1-Dichloroethene	µg/kg	dw	0									16	4.8	41	13.9	13.2
1,1-Dichloropropene	µg/kg	dw	0									8	4.8	9.3	5.8	5.4
1,2,3-Trichloropropane	µg/kg	dw	0									8	4.8	9.3	5.8	5.4
1,2-Dibromo-3-chloropropane	µg/kg	dw	0									8	4.8	9.3	5.8	5.4
1,2-Dibromoethane	µg/kg	dw	0									8	4.8	9.3	5.8	5.4
1,2-Dichloroethane	µg/kg	dw	0									16	4.8	41	13.9	13.2
1,2-Dichloropropane	µg/kg	dw	0									16	4.8	41	13.9	13.2
1,3-Dichloropropane	µg/kg	dw	0									8	4.8	9.3	5.8	5.4
2,2-Dichloropropane	µg/kg	dw	0									8	4.8	9.3	5.8	5.4
2-Butanone	µg/kg	dw	8	7.0	41	24	26	10.6	3.74	-0.15	0.04	0				
2-Chlorotoluene	µg/kg	dw	1	3.5	3.5	3.5	3.5					7	4.8	9.3	5.73	5.3

Table G1-35. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
2-Hexanone	µg/kg	dw	0									8	17	41	22	20
4-Chlorotoluene	µg/kg	dw	0									8	4.8	9.3	5.8	5.4
4-Isopropyltoluene	µg/kg	dw	6	2.3	30	13	10.3	9.76	3.99	1.29	1.92	2	4.8	5.3	5.05	5.05
4-Methyl-2-pentanone	µg/kg	dw	2	2.0	2	2.0	2	0	0			6	19	41	23.3	20
Acetone	µg/kg	dw	7	45	130	84	80	25.4	9.61	0.55	2.23	1	26	26	26	26
Benzene	µg/kg	dw	16	8.0	83	38	38	23.0	5.75	0.38	-0.89	0				
Bromobenzene	µg/kg	dw	0									8	4.8	9.3	5.8	5.4
Bromochloromethane	µg/kg	dw	0									8	4.8	9.3	5.8	5.4
Bromodichloromethane	µg/kg	dw	0									16	4.8	41	13.9	13.2
Bromoform	µg/kg	dw	0									16	4.8	41	13.9	13.2
Bromomethane	µg/kg	dw	0									16	9.5	41	16.9	18
Carbon disulfide	µg/kg	dw	8	5.0	48	18	10	17.0	6.00	1.30	1.7E-03	0				
Carbon Tetrachloride	µg/kg	dw	0									16	4.8	41	13.9	13.15
Chlorobenzene	µg/kg	dw	16	11	520	217	200	164	41.0	0.44	-1.11	0				
Chloroethane	µg/kg	dw	0									16	9.5	41	16.9	18
Chloroform	µg/kg	dw	0									16	4.8	41	13.9	13.2
Chloromethane	µg/kg	dw	1	4.0	4.0	4.0	4.0					15	9.5	41	16.7	17
cis-1,2-Dichloroethene	µg/kg	dw	2	2.0	3.0	2.5	2.5	0.71	0.5			14	4.8	41	13.2	7.8
Cis-1,3-dichloropropene	µg/kg	dw	0									16	4.8	41	13.9	13.2
Dibromochloromethane	µg/kg	dw	0									16	4.8	41	13.9	13.2
Dibromomethane	µg/kg	dw	0									8	4.8	9.3	5.8	5.4
Dichlorodifluoromethane	µg/kg	dw	0									8	9.5	19	11.7	11
Ethylbenzene	µg/kg	dw	9	3.0	11	6.3	6.0	2.47	0.82	0.71	0.32	7	4.8	20	7.9	5.5
Methylene chloride	µg/kg	dw	1	2.0	2.0	2.0	2.0					15	9.7	41	17.4	19
n-Butylbenzene	µg/kg	dw	0									8	4.8	9.3	5.8	5.4
n-Propylbenzene	µg/kg	dw	0									8	4.8	9.3	5.8	5.4
sec-Butylbenzene	µg/kg	dw	6	2.3	23	9.0	6.1	7.93	3.24	1.32	1.24	2	4.8	9.3	7.05	7.05
Styrene	µg/kg	dw	0									16	4.8	41	13.9	13.2
tert-Butylbenzene	µg/kg	dw	1	3.3	3.3	3.3	3.3					7	4.8	9.3	5.94	5.5
Tetrachloroethene	µg/kg	dw	0									16	4.8	41	13.9	13.2
Toluene	µg/kg	dw	13	4.0	120	29	14	32.9	9.11	2.23	4.88	3	4.8	5.5	5.2	5.3
trans-1,2-Dichloroethene	µg/kg	dw	0									16	4.8	41	13.9	13.2
Trans-1,3-dichloropropene	µg/kg	dw	0									16	4.8	41	13.9	13.2
Trichloroethene	µg/kg	dw	0									16	4.8	41	13.9	13.2
Trichlorofluoromethane	µg/kg	dw	0									8	9.5	19	11.7	11
Vinyl chloride	µg/kg	dw	0									16	9.5	41	16.9	18
Xylene (Total)	µg/kg	dw	16	2.0	100	35	23	31.0	7.76	0.99	0.03	0				
Semivolatile Organic Compounds																
1,2,3-Trichlorobenzene	µg/kg	dw	0									8	4.8	11	6.4	5.4
1,2,4-Trichlorobenzene	µg/kg	dw	3	29	300	203	280	151	87	-1.70		20	4.8	180,000	36,983	6,600
1,2,4-Trimethylbenzene	µg/kg	dw	6	6.7	47	23	17	17	7.1	0.73	-1.68	2	4.8	5.3	5.05	5.05
1,2-Dichlorobenzene	µg/kg	dw	23	13	77,000	11,100	1,200	23,863	4,976	2.18	3.54	0				
1,3,5-Trimethylbenzene	µg/kg	dw	8	2.5	45	16	9.8	16	5.6	1.16	0.12	0				
1,3-Dichlorobenzene	µg/kg	dw	7	5.1	180	73	33	72	27	0.53	-1.86	16	4.8	180,000	46,226	6,750
1,4-Dichlorobenzene	µg/kg	dw	23	15	160,000	24,447	2,100	51,632	10,766	1.99	2.41	0				
2,2'-Oxybis(1-chloropropane)																
2,4,5-Trichlorophenol	µg/kg	dw	0									15	1,600	460,000	124,213	17,000

Table G1-35. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
2,4,6-Trichlorophenol	µg/kg	dw	0									15	650	180,000	49,393	6,800
2,4-Dichlorophenol	µg/kg	dw	0									15	650	180,000	49,393	6,800
2,4-Dimethylphenol	µg/kg	dw	0									15	650	180,000	49,393	6,800
2,4-Dinitrophenol	µg/kg	dw	0									15	1,600	460,000	124,213	17,000
2,4-Dinitrotoluene	µg/kg	dw	0									15	650	180,000	49,393	6,800
2,6-Dinitrotoluene	µg/kg	dw	0									15	650	180,000	49,393	6,800
2-Chloronaphthalene	µg/kg	dw	0									15	650	180,000	49,393	6,800
2-Chlorophenol	µg/kg	dw	0									15	650	180,000	49,393	6,800
2-Methylphenol	µg/kg	dw	0									15	650	180,000	49,393	6,800
2-Nitroaniline	µg/kg	dw	0									15	1,600	460,000	124,213	17,000
2-Nitrophenol	µg/kg	dw	0									15	650	180,000	49,393	6,800
3,3-Dichlorobenzidine	µg/kg	dw	0									14	650	180,000	52,875	6,800
3-Nitroaniline	µg/kg	dw	0									15	1,600	460,000	124,213	17,000
4,6-Dinitro-2-methylphenol	µg/kg	dw	0									15	1,600	460,000	124,213	17,000
4-Bromophenyl-phenyl ether	µg/kg	dw	0									15	650	180,000	49,393	6,800
4-Chloro-3-methylphenol	µg/kg	dw	0									15	650	180,000	49,393	6,800
4-Chloroaniline	µg/kg	dw	2	110	120	115	115	7.07	5			13	6,200	180,000	56,892	6,800
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									15	650	180,000	49,393	6,800
4-Methylphenol	µg/kg	dw	7	130	16,000	2,951	1,100	5,772	2,182	2.61	6.86	8	6,500	180,000	69,188	6,800
4-Nitroaniline	µg/kg	dw	0									15	1,600	460,000	124,213	17,000
4-Nitrophenol	µg/kg	dw	0									15	1,600	460,000	124,213	17,000
Bis(2-chloroethoxy)methane	µg/kg	dw	0									15	650	180,000	49,393	6,800
Bis(2-chloroethyl)ether	µg/kg	dw	0									15	650	180,000	49,393	6,800
Bis(2-ethylhexyl)phthalate	µg/kg	dw	15	5,800	360,000	76,240	9,800	121,940	31,485	1.51	0.88	0				
Butylbenzylphthalate	µg/kg	dw	5	240	24,000	13,496	20,000	12,190	5,452	-0.54	-3.25	10	6,200	160,000	21,960	6,750
Carbazole	µg/kg	dw	10	270	93,000	25,470	1,200	36,641	11,587	1.25	0.08	5	6,500	6,800	6,700	6,700
Dibenzofuran	µg/kg	dw	6	180	80,000	32,563	18,000	37,221	15,195	0.77	-1.87	9	6,200	6,800	6,622	6,700
Diethylphthalate	µg/kg	dw	0									15	650	180,000	49,393	6,800
Dimethylphthalate	µg/kg	dw	0									15	650	180,000	49,393	6,800
Di-n-butylphthalate	µg/kg	dw	0									15	650	180,000	49,393	6,800
Di-n-octylphthalate	µg/kg	dw	12	500	37,000	7,595	1,250	12,432	3,589	1.67	1.67	3	6,500	180,000	64,433	6,800
Hexachlorobenzene	µg/kg	dw	8	13	58	26.9	21	16.2	5.73	1.27	0.64	15	650	180,000	49,393	6,800
Hexachlorobutadiene	µg/kg	dw	0									23	4.8	180,000	32,215	6,300
Hexachlorocyclopentadiene	µg/kg	dw	0									15	650	180,000	49,393	6,800
Hexachloroethane	µg/kg	dw	0									15	650	180,000	49,393	6,800
Isophorone	µg/kg	dw	0									15	650	180,000	49,393	6,800
Isopropylbenzene	µg/kg	dw	4	6.1	34	18	16.0	12.6	6.32	0.64	-1.72	4	4.8	9.3	6.25	5.45
Nitrobenzene	µg/kg	dw	0									15	650	180,000	49,393	6,800
N-nitroso-di-n-propylamine	µg/kg	dw	0									15	650	180,000	49,393	6,800
N-Nitrosodiphenylamine	µg/kg	dw	0									15	650	180,000	49,393	6,800
Pentachlorophenol	µg/kg	dw	0									15	1,600	460,000	124,213	17,000
Phenol	µg/kg	dw	2	68	69	68.5	68.5	0.71	0.5			13	6,200	180,000	56,892	6,800
2-Methylnaphthalene	µg/kg	dw	4	210	39,000	18,860	18,115	21,558	10,779	0.02	-5.90	11	6,200	160,000	34,509	6,800

Table G1-35. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Acenaphthene	µg/kg	dw	6	150	85,000	35,385	22,000	38,909	15,884	0.70	-1.87	9	6,200	6,800	6,622	6,700
Acenaphthylene	µg/kg	dw	2	84	92	88	88	5.66	4			13	6,200	180,000	56,892	6,800
Anthracene	µg/kg	dw	12	400	160,000	36,958	1,020	61,541	17,765	1.58	1.16	3	6,500	6,800	6,700	6,800
Benzo(a)anthracene	µg/kg	dw	15	2,300	490,000	97,880	5,000	172,944	44,654	1.66	1.44	0				
Benzo(a)pyrene	µg/kg	dw	15	2,800	490,000	103,427	6,800	178,453	46,076	1.58	1.07	0				
Benzo(b)fluoranthene	µg/kg	dw	15	4,700	720,000	148,580	11,000	252,752	65,260	1.54	0.95	0				
Benzo(g,h,i)perylene	µg/kg	dw	15	3,300	540,000	97,827	6,600	171,403	44,256	1.76	2.16	0				
Benzo(k)fluoranthene	µg/kg	dw	15	1,500	270,000	52,633	3,700	91,869	23,720	1.72	1.75	0				
Chrysene	µg/kg	dw	15	4,300	680,000	144,440	9,300	247,044	63,786	1.53	0.87	0				
Dibenz(a,h)anthracene	µg/kg	dw	10	1,700	170,000	40,170	2,700	57,716	18,252	1.51	1.74	4	650	6,800	5,188	6,650
Fluoranthene	µg/kg	dw	15	3,900	990,000	183,920	12,000	326,337	84,260	1.74	1.91	0				
Fluorene	µg/kg	dw	8	280	95,000	31,906	16,440	40,786	14,420	1.00	-0.73	7	6,200	6,800	6,571	6,700
Indeno(1,2,3-cd)pyrene	µg/kg	dw	15	2,100	450,000	79,107	5,700	139,275	35,961	1.83	2.60	0				
Naphthalene	µg/kg	dw	15	24	94,000	15,138	740	32,198	8,314	2.25	3.81	8	7.3	6,800	4,191	6,600
Phenanthrene	µg/kg	dw	15	2,700	800,000	151,233	6,200	280,840	72,513	1.85	2.24	0				
Pyrene	µg/kg	dw	15	5,200	1,500,000	304,940	18,000	526,136	135,848	1.54	0.92	0				
Pesticides/Polychlorinated Biphenyls																
4,4'-DDD	µg/kg	dw	2	34	37	35.5	35.5	2.12	1.5			20	7	1,400	400	125
4,4'-DDE	µg/kg	dw	12	8.4	55	31.2	28.5	15.3	4.42	0.40	-1.01	10	12	140	64.6	53
4,4'-DDT	µg/kg	dw	0									22	7	1,400	430	125
Aldrin	µg/kg	dw	0									22	3.5	690	162	49.5
alpha-BHC	µg/kg	dw	0									22	3.5	690	216	62.5
alpha-Chlordane	µg/kg	dw	0									14	33	690	330	200
beta-BHC	µg/kg	dw	1	6.4	6.4	6.4	6.4					21	3.5	690	199	62
Chlordane	µg/kg	dw	0									8	35	420	165	102
delta-BHC	µg/kg	dw	0									22	3.5	690	216	62.5
Dieldrin	µg/kg	dw	7	21	87	59.7	63	20.9	7.89	-0.91	1.56	15	7	140	73.3	74
Endosulfan I	µg/kg	dw	0									22	3.5	690	216	62.5
Endosulfan II	µg/kg	dw	2	26	30	28	28	2.83	2			20	7	1,400	353	115
Endosulfan sulfate	µg/kg	dw	0									22	7	1,400	430	125
Endrin	µg/kg	dw	0									22	7	1,400	430	125
Endrin aldehyde	µg/kg	dw	0									22	7	1,400	372	125
Endrin ketone	µg/kg	dw	8	43	150	93.3	77	44.0	15.6	0.40	-1.94	6	120	1,300	665	620
gamma-BHC (Lindane)	µg/kg	dw	0									22	3.5	690	216	62.5
gamma-Chlordane	µg/kg	dw	4	13	55	25	16	20.1	10.0	1.96	3.87	10	9.1	690	201	65
Heptachlor	µg/kg	dw	0									22	3.5	690	216	62.5
Heptachlor epoxide	µg/kg	dw	5	8.5	63	29.9	28	22.0	9.86	0.83	0.04	17	3.5	690	143	42
Methoxychlor	µg/kg	dw	5	42	330	148	110	114	50.9	1.27	1.33	17	35	6,700	1,870	420
Toxaphene	µg/kg	dw	0									22	35	69,000	21,060	6,250
Aroclor 1016	µg/kg	dw	0									22	35	14,000	4,240	1,250
Aroclor 1221	µg/kg	dw	0									22	35	27,000	8,410	2,500
Aroclor 1232	µg/kg	dw	0									22	35	14,000	4,240	1,250
Aroclor 1242	µg/kg	dw	0									22	35	14,000	4,240	1,250
Aroclor 1248	µg/kg	dw	0									22	35	14,000	4,240	1,250
Aroclor 1254	µg/kg	dw	11	200	1,100	575	500	327	98.7	0.51	-0.84	11	35	11,000	1,780	160
Aroclor 1260	µg/kg	dw	3	80	210	130	100	70	40.4	1.57		19	74	14,000	4,901	1,300

Table G1-35. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
PCDD/PCDFs		dw														
2,3,7,8-TCDD	ng/kg	dw	10	0.54	2.9	1.61	1.48	0.70	0.22	0.47	-0.12	1	0.52	0.52	0.52	0.52
Total TCDDs	ng/kg	dw	11	5.63	75	33.2	33	21.8	6.57	0.37	-0.43	0				
1,2,3,7,8-PeCDD	ng/kg	dw	11	2.24	7.8	5.64	6.1	2.22	0.67	-0.87	-1.02	0				
Total PeCDDs	ng/kg	dw	11	6.58	90	54.1	62.4	27.3	8.24	-0.48	-1.12	0				
1,2,3,4,7,8-HxCDD	ng/kg	dw	11	3.06	14	9.34	9.91	3.86	1.16	-0.70	-1.06	0				
1,2,3,6,7,8-HxCDD	ng/kg	dw	11	13.5	36	25.9	25.9	8.14	2.46	-0.53	-1.26	0				
1,2,3,7,8,9-HxCDD	ng/kg	dw	10	9.0	29.4	22.5	24.8	7.66	2.42	-0.87	-0.57	1	9.73	9.73	9.73	9.73
Total HxCDDs	ng/kg	dw	11	138	269	209	208	45.3	13.6	-0.15	-1.32	0				
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	11	407	822	618	681	154	46.4	-0.16	-1.83	0				
Total HpCDDs	ng/kg	dw	11	783	1,540	1,152	1,250	270	81.3	-0.08	-1.67	0				
OCDD	ng/kg	dw	11	3,430	9,820	6,564	7,830	2,390	721	-0.12	-1.94	0				
2,3,7,8-TCDF	ng/kg	dw	12	8.9	41	16.8	12.7	9.51	2.75	1.84	3.02	0				
Total TCDFs	ng/kg	dw	11	85	233	157	151	49.7	15.0	0.01	-1.38	0				
1,2,3,7,8-PeCDF	ng/kg	dw	11	2.8	6.8	4.72	4.66	1.40	0.42	-0.20	-1.22	0				
2,3,4,7,8-PeCDF	ng/kg	dw	10	3.5	14	8.14	7.89	3.45	1.09	0.39	-0.40	1	3.68	3.68	3.68	3.68
Total PeCDFs	ng/kg	dw	11	2.3	98	61.8	62.2	29.3	8.82	-0.68	-0.08	0				
1,2,3,4,7,8-HxCDF	ng/kg	dw	11	5.4	16	12.3	13.7	4.11	1.24	-0.83	-1.05	0				
1,2,3,6,7,8-HxCDF	ng/kg	dw	11	3.6	14	8.93	8.49	3.83	1.15	-0.26	-1.41	0				
1,2,3,7,8,9-HxCDF	ng/kg	dw	1	1.5	1.5	1.51	1.51					10	0.51	2.4	1.338	1.13
2,3,4,6,7,8-HxCDF	ng/kg	dw	10	3.6	11	7.25	7.83	2.24	0.71	-0.52	-0.42	1	4.06	4.06	4.06	4.06
Total HxCDFs	ng/kg	dw	11	72	280	175	180	77.0	23.2	-0.22	-1.72	0				
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	11	51	253	161	158	74.6	22.5	-0.34	-1.50	0				
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	10	3.5	15	10.7	11.7	4.17	1.32	-0.67	-0.79	1	5.36	5.36	5.36	5.36
Total HpCDFs	ng/kg	dw	11	121	538	370	434	157	47.5	-0.58	-1.39	0				
OCDF	ng/kg	dw	11	105	597	391	383	183	55.3	-0.45	-1.26	0				

Table G1-36. Summary Statistics for Upper Ninemile Creek Sediment Samples Collected in 1998 and 2001 by Honeywell/Exponent/BBL (0-15 cm)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Chloride (Measured)	mg/kg	dw	4	13.1	8,470	4,127	4,012	4,737	2,368	0.01	-5.95	0				
Dry weight	µg/kg	dw	4	0.47	0.7	0.56	0.54	0.10	0.05	1.25	1.50	0				
Particles < 0.0012 mm	%	dw	4	2.6	16.9	8.13	6.50	6.33	3.16	1.22	1.11	0				
Particles < 0.0027 mm	%	dw	4	4	29.5	14.6	12.4	11.1	5.55	0.96	0.43	0				
Particles < 0.0057 mm	%	dw	4	9.5	37.1	20.6	17.9	13.5	6.76	0.53	-3.01	0				
Particles < 0.0079 mm	%	dw	4	11	44.6	25.0	22.2	16.2	8.10	0.50	-3.13	0				
Particles < 0.0108 mm	%	dw	4	12.4	50.9	29	26.4	18.4	9.21	0.42	-3.44	0				
Particles < 0.0178 mm	%	dw	4	12.4	58.5	40.0	44.5	19.6	9.78	-1.27	2.36	0				
Particles < 0.0276 mm	%	dw	4	16.7	64.8	47.1	53.4	21.6	10.8	-1.34	1.44	0				
Particles < 0.074 mm (sieve #200)	%	dw	4	21.4	81.8	57.6	63.7	26.4	13.2	-1.13	1.01	0				
Particles < 0.105 mm (sieve #140)	%	dw	4	23.9	88.3	62.4	68.7	27.98	14.0	-1.13	1.11	0				
Particles < 0.250 mm (sieve #60)	%	dw	4	40.5	95.7	72.4	76.8	23.9	11.9	-0.90	0.39	0				
Particles < 0.42 mm (sieve #40)	%	dw	4	49.5	96.9	76.4	79.6	20.3	10.2	-0.81	0.41	0				
Particles < 0.84 mm (sieve #20)	%	dw	4	52.7	97.5	79.4	83.7	19.2	9.60	-1.19	1.73	0				
Particles < 2.00 mm (sieve #10)	%	dw	4	55.4	98.1	82.1	87.5	18.6	9.30	-1.51	2.66	0				
Particles < 4.75 mm (sieve #4)	%	dw	4	58.9	98.7	85.3	91.8	17.9	8.95	-1.80	3.44	0				
Particles < 9.50 mm	%	dw	4	65.4	100	89.2	95.6	16.0	7.99	-1.89	3.68	0				
Particles < 12.7 mm (1/2" sieve)	%	dw	4	71.2	100	92.0	98.4	13.9	6.96	-1.97	3.91	0				
Particles < 19.0 mm	%	dw	4	72.0	100	93.0	100	14.0	6.99	-2.00	4.00	0				
Particles < 25.4 mm (1" sieve)	%	dw	4	72.0	100	93.0	100	14.0	6.99	-2.00	4.00	0				
Particles < 37.5 mm (1 1/2" sieve)	%	dw	4	100	100	100	100	0	0			0				
Particles < 50 mm (2" sieve)	%	dw	4	100	100	100	100	0	0			0				
Particles < 75 mm (3" sieve)	%	dw	4	100	100	100	100	0	0			0				
Particles < 150 mm (6" sieve)	%	dw	4	100	100	100	100	0	0			0				
Particles < 300 mm (12" sieve)	%	dw	4	100	100	100	100	0	0			0				
Percent clay	%	ww	4	3.29	24.2	11.6	9.49	9.12	4.56	1.15	1.06	0				
Percent gravel	%	dw	4	1.9	44.6	17.9	12.5	18.6	9.30	1.51	2.66	0				
Percent moisture	%	ww	4	42.6	89.8	71.6	77.1	20.8	10.4	-1.26	1.32	0				
Percent sand	%	ww	4	23.7	36.3	29.3	28.6	6.50	3.25	0.18	-4.99	0				
Percent silt	%	ww	4	12.2	62.7	41.2	45.0	21.5	10.7	-0.94	1.06	0				
Total organic carbon	mg/kg	dw	10	5,360	35,100	26,776	28,850	8,632	2,730	-1.93	4.33	0				
Total solids	%	ww	10	48	68.8	56.8	54.5	7.08	2.24	0.87	-0.29	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	4	3,120	10,700	6,768	6,625	3,102	1,551	0.27	1.49	0				
Antimony	mg/kg	dw	0									4	0.57	15.3	10.4	12.8
Arsenic	mg/kg	dw	4	1.7	5.8	4.2	4.65	1.75	0.88	-1.40	2.63	0				
Barium	mg/kg	dw	4	23.2	96	60.2	60.8	34.4	17.2	-0.05	-4.14	0				
Beryllium	mg/kg	dw	0									4	0.18	0.48	0.33	0.32
Cadmium	mg/kg	dw	0									4	1.3	1.8	1.55	1.55
Calcium	mg/kg	dw	4	47,600	117,000	78,100	73,900	30,290	15,145	0.65	-0.74	0				
Chromium	mg/kg	dw	4	5	32.1	16.1	13.6	11.6	5.78	1.16	1.71	0				

Table G1-36. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Cobalt	mg/kg	dw	4	4.4	9.2	6.55	6.3	1.98	0.99	0.74	1.76	0				
Copper	mg/kg	dw	4	9.3	34.1	22.3	22.9	13.4	6.71	-0.04	-5.78	0				
Cyanide	mg/kg	dw	0									4	3.7	5.2	4.5	4.55
Iron	mg/kg	dw	4	8,410	19,700	13,953	13,850	4,905	2,453	0.10	-1.58	0				
Lead	mg/kg	dw	4	5.2	49.7	22.7	18.0	19.5	9.746	1.19	1.15	0				
Magnesium	mg/kg	dw	4	11,700	28,400	18,150	16,250	7,583	3,791	1.05	-0.02	0				
Manganese	mg/kg	dw	4	162	831	395	294	301	151	1.60	2.57	0				
Methylmercury	ug/kg	dw	9	0.14	2.06	0.76	0.54	0.71	0.24	1.41	0.46	1	0.03	0.03	0.03	0.03
Nickel	mg/kg	dw	4	8.3	19.0	14.0	14.3	4.38	2.19	-0.41	1.59	0				
Potassium	mg/kg	dw	4	539	1,820	1,152	1,125	530	265	0.29	0.93	0				
Selenium	mg/kg	dw	0									4	1.1	1.5	1.33	1.35
Silver	mg/kg	dw	0									4	0.88	1.2	1.05	1.05
Sodium	mg/kg	dw	4	128	2,830	1,444	1,409	1,482	741	0.02	-5.89	0				
Thallium	mg/kg	dw	1	2	2	2	2					3	1.4	2	1.67	1.6
Total Mercury	mg/kg	dw	10	0.06	1.40	0.43	0.25	0.45	0.14	1.37	1.02	0				
Vanadium	mg/kg	dw	4	6.6	17.4	12.7	13.5	4.57	2.28	-0.85	0.99	0				
Zinc	mg/kg	dw	4	27	75.3	52.4	53.6	25.0	12.5	-0.07	-5.46	0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									4	15	21	18	18
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									4	15	21	18	18
1,1,2-Trichloroethane	µg/kg	dw	0									4	15	21	18	18
1,1-Dichloroethane	µg/kg	dw	0									4	15	21	18	18
1,1-Dichloroethene	µg/kg	dw	0									4	15	21	18	18
1,2-Dichloroethane	µg/kg	dw	0									4	15	21	18	18
1,2-Dichloroethene (Total)	µg/kg	dw	0									4	15	21	18	18
1,2-Dichloropropane	µg/kg	dw	0									4	15	21	18	18
2-Butanone	µg/kg	dw	1	6.1	6.1	6.1	6.1					3	15	21	18.3	19
2-Hexanone	µg/kg	dw	0									4	15	21	18	18
4-Methyl-2-pentanone	µg/kg	dw	0									4	15	21	18	18
Acetone	µg/kg	dw	4	51	160	108	110	55.3	27.6	-0.07	-5.26	0				
Benzene	µg/kg	dw	0									4	15	21	18	18
Bromodichloromethane	µg/kg	dw	0									4	15	21	18	18
Bromoform	µg/kg	dw	0									4	15	21	18	18
Bromomethane	µg/kg	dw	0									4	15	21	18	18
Carbon disulfide	µg/kg	dw	2	3.1	6.8	4.95	4.95	2.62	1.85			2	15	21	18	18
Carbon Tetrachloride	µg/kg	dw	0									4	15	21	18	18
Chlorobenzene	µg/kg	dw	0									4	15	21	18	18
Chloroethane	µg/kg	dw	0									4	15	21	18	18
Chloroform	µg/kg	dw	0									4	15	21	18	18
Chloromethane	µg/kg	dw	0									4	15	21	18	18
cis-1,2-Dichloroethene	µg/kg	dw	0									0				
cis-1,3-Dichloropropene	µg/kg	dw	0									4	15	21	18	18
Dibromochloromethane	µg/kg	dw	0									4	15	21	18	18
Ethylbenzene	µg/kg	dw	0									4	15	21	18	18

Table G1-36. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Methylene chloride	µg/kg	dw	3	26	32	28.3	27	3.21	1.86	1.55		1	34	34	34	34
Styrene	µg/kg	dw	0									4	15	21	18	18
Tetrachloroethene	µg/kg	dw	0									4	15	21	18	18
Toluene	µg/kg	dw	0									4	15	21	18	18
trans-1,2-Dichloroethene	µg/kg	dw	0									0				
trans-1,3-Dichloropropene	µg/kg	dw	0									4	15	21	18	18
Trichloroethene	µg/kg	dw	0									4	15	21	18	18
Vinyl chloride	µg/kg	dw	0									4	15	21	18	18
meta & para Xylenes	µg/kg	dw	0									0				
ortho-Xylene	µg/kg	dw	0									0				
Xylene (Total)	µg/kg	dw	0									4	15	21	18	18
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	0									4	480	690	593	600
1,2-Dichlorobenzene	µg/kg	dw	0									4	480	690	593	600
1,3-Dichlorobenzene	µg/kg	dw	0									4	480	690	593	600
1,4-Dichlorobenzene	µg/kg	dw	0									4	480	690	593	600
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									4	480	690	593	600
2,4,5-Trichlorophenol	µg/kg	dw	0									4	1,200	1,700	1,475	1,500
2,4,6-Trichlorophenol	µg/kg	dw	0									4	480	690	593	600
2,4-Dichlorophenol	µg/kg	dw	0									4	480	690	593	600
2,4-Dimethylphenol	µg/kg	dw	0									4	480	690	593	600
2,4-Dinitrophenol	µg/kg	dw	0									4	1,200	1,700	1,475	1,500
2,4-Dinitrotoluene	µg/kg	dw	0									4	480	690	593	600
2,6-Dinitrotoluene	µg/kg	dw	0									4	480	690	593	600
2-Chloronaphthalene	µg/kg	dw	0									4	480	690	593	600
2-Chlorophenol	µg/kg	dw	0									4	480	690	593	600
2-Methylphenol	µg/kg	dw	0									4	480	690	593	600
2-Nitroaniline	µg/kg	dw	0									4	1,200	1,700	1,475	1,500
2-Nitrophenol	µg/kg	dw	0									4	480	690	593	600
3,3'-Dichlorobenzidine	µg/kg	dw	0									4	480	690	593	600
3-Nitroaniline	µg/kg	dw	0									4	1,200	1,700	1,475	1,500
4,6-Dinitro-2-methylphenol	µg/kg	dw	0									4	1,200	1,700	1,475	1,500
4-Bromophenyl-phenyl ether	µg/kg	dw	0									4	480	690	593	600
4-Chloro-3-methylphenol	µg/kg	dw	0									4	480	690	593	600
4-Chloroaniline	µg/kg	dw	0									4	480	690	593	600
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									4	480	690	593	600
4-Methylphenol	µg/kg	dw	0									4	480	690	593	600
4-Nitroaniline	µg/kg	dw	0									4	1,200	1,700	1,475	1,500
4-Nitrophenol	µg/kg	dw	0									4	1,200	1,700	1,475	1,500
Bis(2-chloroethoxy)methane	µg/kg	dw	0									4	480	690	593	600
Bis(2-chloroethyl)ether	µg/kg	dw	0									4	480	690	593	600
Bis(2-ethylhexyl)phthalate	µg/kg	dw	3	81	160	108	82	45.3	26.2	1.73		1	570	570	570	570
Butylbenzylphthalate	µg/kg	dw	0									4	480	690	593	600
Carbazole	µg/kg	dw	0									4	480	690	593	600

Table G1-36. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Dibenzofuran	µg/kg	dw	0									4	480	690	593	600
Diethylphthalate	µg/kg	dw	0									4	480	690	593	600
Dimethylphthalate	µg/kg	dw	0									4	480	690	593	600
Di-n-butylphthalate	µg/kg	dw	1	130	130	130	130					3	480	630	560	570
Di-n-octylphthalate	µg/kg	dw	0									4	480	690	593	600
Hexachlorobenzene	µg/kg	dw	0									4	480	690	593	600
Hexachlorobenzene (GC)	µg/kg	dw	0									4	4.8	6.9	5.93	6
Hexachlorobenzene (GC/ECD)	µg/kg	dw	0									0				
Hexachlorobenzene (MS)	µg/kg	dw	0									0				
Hexachlorobutadiene	µg/kg	dw	0									4	480	690	593	600
Hexachlorocyclopentadiene	µg/kg	dw	0									4	480	690	593	600
Hexachloroethane	µg/kg	dw	0									4	480	690	593	600
Isophorone	µg/kg	dw	0									4	480	690	593	600
Nitrobenzene	µg/kg	dw	0									4	480	690	593	600
N-nitroso-di-n-propylamine	µg/kg	dw	0									4	480	690	593	600
N-Nitrosodiphenylamine	µg/kg	dw	0									4	480	690	593	600
Pentachlorophenol	µg/kg	dw	0									4	1,200	1,700	1,475	1,500
Phenol	µg/kg	dw	0									4	480	690	593	600
2-Methylnaphthalene	µg/kg	dw	0									4	480	690	593	600
Acenaphthene	µg/kg	dw	0									4	480	690	593	600
Acenaphthylene	µg/kg	dw	0									4	480	690	593	600
Anthracene	µg/kg	dw	0									4	480	690	593	600
Benzo(a)anthracene	µg/kg	dw	3	63	180	128	140	59.5	34.3	-0.89		1	570	570	570	570
Benzo(a)pyrene	µg/kg	dw	4	56	180	111	105	58.9	29.4	0.34	-3.63	0				
Benzo(b)fluoranthene	µg/kg	dw	3	69	250	166	180	91.3	52.7	-0.66		1	570	570	570	570
Benzo(g,h,i)perylene	µg/kg	dw	0									4	480	690	593	600
Benzo(k)fluoranthene	µg/kg	dw	3	53	210	158	210	90.6	52.3	-1.73		1	570	570	570	570
Chrysene	µg/kg	dw	3	91	250	197	250	91.8	53.0	-1.73		1	570	570	570	570
Dibenz(a,h)anthracene	µg/kg	dw	0									4	480	690	593	600
Fluoranthene	µg/kg	dw	4	67	420	229	215	161	80.4	0.33	-2.83	0				
Fluorene	µg/kg	dw	0									4	480	690	593	600
Indeno(1,2,3-cd)pyrene	µg/kg	dw	3	51	120	90.3	100	35.5	20.5	-1.13		1	570	570	570	570
Naphthalene	µg/kg	dw	0									4	480	690	593	600
Phenanthrene	µg/kg	dw	3	85	170	122	110	43.7	25.2	1.12		1	570	570	570	570
Pyrene	µg/kg	dw	4	67	330	202	205	128	64.0	-0.06	-4.71	0				
Pesticides/Polychlorinated Biphenyls																
4,4'-DDD	µg/kg	dw	0									4	4.8	6.9	5.93	6
4,4'-DDE	µg/kg	dw	0									4	4.8	6.9	5.93	6
4,4'-DDT	µg/kg	dw	0									4	4.8	6.9	5.93	6
Aldrin	µg/kg	dw	0									4	2.5	3.5	3.03	3.05
alpha-BHC	µg/kg	dw	0									4	2.5	3.5	3.03	3.05
alpha-Chlordane	µg/kg	dw	0									4	2.5	3.5	3.03	3.05
beta-BHC	µg/kg	dw	0									4	2.5	3.5	3.03	3.05
delta-BHC	µg/kg	dw	0									4	2.5	3.5	3.03	3.05

Table G1-36. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Dieldrin	µg/kg	dw	0									4	4.8	6.9	5.93	6
Endosulfan I	µg/kg	dw	0									4	2.5	3.5	3.03	3.05
Endosulfan II	µg/kg	dw	0									4	4.8	6.9	5.93	6
Endosulfan sulfate	µg/kg	dw	0									4	4.8	6.9	5.93	6
Endrin	µg/kg	dw	0									4	4.8	6.9	5.93	6
Endrin aldehyde	µg/kg	dw	0									4	4.8	6.9	5.93	6
Endrin ketone	µg/kg	dw	0									4	4.8	6.9	5.93	6
gamma-BHC (Lindane)	µg/kg	dw	0									4	2.5	3.5	3.03	3.05
gamma-Chlordane	µg/kg	dw	0									4	2.5	3.5	3.03	3.05
Heptachlor	µg/kg	dw	0									4	2.5	3.5	3.03	3.05
Heptachlor epoxide	µg/kg	dw	0									4	2.5	3.5	3.03	3.05
Methoxychlor	µg/kg	dw	0									4	25	35	30.3	30.5
Toxaphene	µg/kg	dw	0									4	250	350	303	305
Aroclor 1016	µg/kg	dw	0									4	15	21	18	18
Aroclor 1221	µg/kg	dw	0									4	29	42	35.8	36
Aroclor 1232	µg/kg	dw	0									4	15	21	18	18
Aroclor 1242	µg/kg	dw	0									4	15	21	18	18
Aroclor 1248	µg/kg	dw	0									4	15	21	18	18
Aroclor 1254	µg/kg	dw	0									4	15	21	18	18
Aroclor 1260	µg/kg	dw	0									4	15	21	18	18
Aroclor 1268	µg/kg	dw	0									4	15	21	18	18
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	0									4	0.14	0.79	0.36	0.26
Total TCDDs	ng/kg	dw	1	7.49	7.49	7.49	7.49					3	0.33	0.71	0.55	0.62
1,2,3,7,8-PeCDD	ng/kg	dw	0									4	0.39	1.70	0.75	0.45
Total PeCDDs	ng/kg	dw	0									4	0.35	1.70	0.77	0.51
1,2,3,4,7,8-HxCDD	ng/kg	dw	0									4	0.2	1.90	0.77	0.48
1,2,3,6,7,8-HxCDD	ng/kg	dw	0									4	0.38	1.92	1.11	1.07
1,2,3,7,8,9-HxCDD	ng/kg	dw	0									4	0.35	1.90	0.88	0.64
Total HxCDDs	ng/kg	dw	2	6.13	6.44	6.29	6.29	0.22	0.15			2	0.61	0.95	0.78	0.78
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	3	4.85	55.1	33.3	40.0	25.8	14.9	-1.09		1	2.66	2.66	2.66	2.66
Total HpCDDs	ng/kg	dw	3	9.83	106	64.6	77.9	49.4	28.5	-1.12		1	2.66	2.66	2.66	2.66
OCDD	ng/kg	dw	4	27.4	387	200	193	185	92.7	0.06	-5.45	0				
2,3,7,8-TCDF	ng/kg	dw	3	0.82	2.27	1.43	1.2	0.75	0.43	1.25		1	0.25	0.25	0.25	0.25
Total TCDFs	ng/kg	dw	3	1.2	9.96	4.83	3.33	4.57	2.64	1.32		1	0.25	0.25	0.25	0.25
1,2,3,7,8-PeCDF	ng/kg	dw	0									4	0.15	1.80	0.63	0.29
2,3,4,7,8-PeCDF	ng/kg	dw	0									4	0.16	1.80	0.67	0.36
Total PeCDFs	ng/kg	dw	0									4	0.41	5.32	2.51	2.16
1,2,3,4,7,8-HxCDF	ng/kg	dw	0									4	0.18	1.00	0.64	0.69
1,2,3,6,7,8-HxCDF	ng/kg	dw	0									4	0.18	1.00	0.45	0.32
1,2,3,7,8,9-HxCDF	ng/kg	dw	0									4	0.15	1.20	0.51	0.35
2,3,4,6,7,8-HxCDF	ng/kg	dw	0									4	0.15	1.10	0.44	0.26
Total HxCDFs	ng/kg	dw	1	7.98	7.98	7.98	7.98					3	0.45	4.62	2.01	0.95
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	2	14.8	18	16.4	16.4	2.26	1.6			2	1.3	2.55	1.93	1.93

Table G1-36. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	0									4	0.31	1.10	0.52	0.34
Total HpCDFs	ng/kg	dw	2	30.4	32.2	31.3	31.3	1.27	0.9			2	1.42	2.55	1.99	1.99
OCDF	ng/kg	dw	1	24.5	24.5	24.5	24.5					3	1.8	6.84	4.22	4.03

Table G1-37. Summary Statistics for Upper Ninemile Creek Sediment Samples Collected in 1998 and 2001 by Honeywell/Exponent/BBL (15-45 cm)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Chloride (Measured)	mg/kg	dw	3	12.7	9,610	3,219	32.8	5,535	3,196	1.73		0				
Dry weight	µg/kg	dw	3	0.53	0.69	0.60	0.57	0.08	0.05	1.29		0				
Particles < 0.0012 mm	%	dw	2	4	22	13	13	12.7	9			0				
Particles < 0.0027 mm	%	dw	2	6.4	35.6	21	21	20.6	14.6			0				
Particles < 0.0057 mm	%	dw	2	6.4	46.9	26.7	26.7	28.6	20.3			0				
Particles < 0.0079 mm	%	dw	2	8.7	53.7	31.2	31.2	31.8	22.5			0				
Particles < 0.0108 mm	%	dw	2	9.9	62.8	36.4	36.4	37.4	26.5			0				
Particles < 0.0178 mm	%	dw	2	9.9	76.4	43.2	43.2	47.0	33.3			0				
Particles < 0.0276 mm	%	dw	2	13.5	82.1	47.8	47.8	48.5	34.3			0				
Particles < 0.074 mm (sieve #200)	%	dw	2	14.9	94.7	54.8	54.8	56.4	39.9			0				
Particles < 0.105 mm (sieve #140)	%	dw	2	17.2	96.3	56.8	56.8	55.9	39.5			0				
Particles < 0.250 mm (sieve #60)	%	dw	2	54.2	98.1	76.2	76.2	31.1	22.0			0				
Particles < 0.42 mm (sieve #40)	%	dw	2	91.9	98.4	95.2	95.2	4.60	3.25			0				
Particles < 0.84 mm (sieve #20)	%	dw	2	96.0	98.7	97.4	97.4	1.90	1.34			0				
Particles < 2.00 mm (sieve #10)	%	dw	2	98.1	99.4	98.8	98.8	0.89	0.63			0				
Particles < 4.75 mm (sieve #4)	%	dw	2	99.2	100	99.6	99.6	0.56	0.40			0				
Particles < 9.50 mm	%	dw	2	100	100	100	100	0	0			0				
Particles < 12.7 mm (1/2" sieve)	%	dw	2	100	100	100	100	0	0			0				
Particles < 19.0 mm	%	dw	2	100	100	100	100	0	0			0				
Particles < 25.4 mm (1" sieve)	%	dw	2	100	100	100	100	0	0			0				
Particles < 37.5 mm (1 1/2" sieve)	%	dw	2	100	100	100	100	0	0			0				
Particles < 50 mm (2" sieve)	%	dw	2	100	100	100	100	0	0			0				
Particles < 75 mm (3" sieve)	%	dw	2	100	100	100	100	0	0			0				
Particles < 150 mm (6" sieve)	%	dw	2	100	100	100	100	0	0			0				
Particles < 300 mm (12" sieve)	%	dw	2	100	100	100	100	0	0			0				
Percent clay	%	ww	2	5.26	30.3	17.8	17.8	17.7	12.5			0				
Percent gravel	%	dw	2	0.61	1.87	1.24	1.24	0.89	0.63			0				
Percent moisture	%	ww	2	62.8	69.4	66.1	66.1	4.67	3.30			0				
Percent sand	%	ww	2	9.82	84.0	46.9	46.9	52.4	37.1			0				
Percent silt	%	ww	2	8.91	59.3	34.1	34.1	35.6	25.2			0				
Total organic carbon	mg/kg	dw	9	7,050	48,800	27,072	27,300	13,130	4,377	-0.20	0.08	0				
Total solids	%	ww	9	47	75	59.7	59.1	7.98	2.66	0.57	1.09	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	3	1,760	15,400	10,553	14,500	7,629	4,404	-1.70		0				
Antimony	mg/kg	dw	0									3	0.59	14.3	9.50	13.6
Arsenic	mg/kg	dw	3	1.2	5.3	3.57	4.2	2.12	1.23	-1.22		0				
Barium	mg/kg	dw	3	9	202	103	97.7	96.6	55.8	0.24		0				
Beryllium	mg/kg	dw	0									3	0.08	0.68	0.46	0.61
Cadmium	mg/kg	dw	0									3	1.3	1.5	1.43	1.50
Calcium	mg/kg	dw	3	37,900	64,300	48,800	44,200	13,788	7,961	1.33		0				
Chromium	mg/kg	dw	3	2.4	29.7	18.1	22.2	14.1	8.14	-1.20		0				
Cobalt	mg/kg	dw	3	3.2	11.1	8.4	10.9	4.50	2.60	-1.73		0				

Table G1-37. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Copper	mg/kg	dw	3	3.7	30.6	18.4	20.9	13.6	7.87	-0.80		0				
Cyanide	mg/kg	dw	0									3	3.7	4.4	4.1	4.2
Iron	mg/kg	dw	3	4,390	22,900	16,063	20,900	10,159	5,865	-1.66		0				
Lead	mg/kg	dw	3	1.4	40.8	17.4	9.9	20.7	12.0	1.41		0				
Magnesium	mg/kg	dw	3	8,420	22,200	14,740	13,600	6,960	4,019	0.72		0				
Manganese	mg/kg	dw	3	98.2	387	278	350	157	90.7	-1.62		0				
Methylmercury	ug/kg	dw	6	0.03	0.19	0.14	0.16	0.06	0.02	-2.07	4.64	3	0.02	0.03	0.03	0.03
Nickel	mg/kg	dw	3	4.1	29.4	18.3	21.5	12.9	7.47	-1.04		0				
Potassium	mg/kg	dw	3	494	2,590	1,878	2,550	1,199	692	-1.73		0				
Selenium	mg/kg	dw	0									3	1.1	1.3	1.2	1.2
Silver	mg/kg	dw	0									3	0.89	1.1	1.00	1
Sodium	mg/kg	dw	3	137	3,550	1,298	207	1,951	1,126	1.73		0				
Thallium	mg/kg	dw	0									3	1.4	1.7	1.57	1.6
Total Mercury	mg/kg	dw	9	0.02	0.59	0.25	0.32	0.22	0.07	0.12	-1.71	0				
Vanadium	mg/kg	dw	3	4.4	29.2	19.0	23.5	13.0	7.50	-1.36		0				
Zinc	mg/kg	dw	3	15.6	71.5	48.8	59.2	29.4	17.0	-1.40		0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									2	17	18	17.5	17.5
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									2	17	18	17.5	17.5
1,1,2-Trichloroethane	µg/kg	dw	0									2	17	18	17.5	17.5
1,1-Dichloroethane	µg/kg	dw	0									2	17	18	17.5	17.5
1,1-Dichloroethene	µg/kg	dw	0									2	17	18	17.5	17.5
1,2-Dichloroethane	µg/kg	dw	0									2	17	18	17.5	17.5
1,2-Dichloroethene (Total)	µg/kg	dw	0									2	17	18	17.5	17.5
1,2-Dichloropropane	µg/kg	dw	0									2	17	18	17.5	17.5
2-Butanone	µg/kg	dw	1	30	30	30	30					1	17	17	17	17
2-Hexanone	µg/kg	dw	0									2	17	18	17.5	17.5
4-Methyl-2-pentanone	µg/kg	dw	0									2	17	18	17.5	17.5
Acetone	µg/kg	dw	2	39	1,100	570	570	750	531			0				
Benzene	µg/kg	dw	0									2	17	18	17.5	17.5
Bromodichloromethane	µg/kg	dw	0									2	17	18	17.5	17.5
Bromoform	µg/kg	dw	0									2	17	18	17.5	17.5
Bromomethane	µg/kg	dw	0									2	17	18	17.5	17.5
Carbon disulfide	µg/kg	dw	2	5.1	14	9.55	9.55	6.29	4.45			0				
Carbon Tetrachloride	µg/kg	dw	0									2	17	18	17.5	17.5
Chlorobenzene	µg/kg	dw	0									2	17	18	17.5	17.5
Chloroethane	µg/kg	dw	0									2	17	18	17.5	17.5
Chloroform	µg/kg	dw	0									2	17	18	17.5	17.5
Chloromethane	µg/kg	dw	0									2	17	18	17.5	17.5
cis-1,2-Dichloroethene	µg/kg	dw	0									0				
cis-1,3-Dichloropropene	µg/kg	dw	0									2	17	18	17.5	17.5
Dibromochloromethane	µg/kg	dw	0									2	17	18	17.5	17.5
Ethylbenzene	µg/kg	dw	0									2	17	18	17.5	17.5
Methylene chloride	µg/kg	dw	1	24	24	24	24					1	17	17	17	17
Styrene	µg/kg	dw	0									2	17	18	17.5	17.5
Tetrachloroethene	µg/kg	dw	0									2	17	18	17.5	17.5
Toluene	µg/kg	dw	0									2	17	18	17.5	17.5

Table G1-37. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
trans-1,2-Dichloroethene	µg/kg	dw	0									0				
trans-1,3-Dichloropropene	µg/kg	dw	0									2	17	18	17.5	17.5
Trichloroethene	µg/kg	dw	0									2	17	18	17.5	17.5
Vinyl chloride	µg/kg	dw	0									2	17	18	17.5	17.5
meta & para Xylenes	µg/kg	dw	0									0				
ortho-Xylene	µg/kg	dw	0									0				
Xylene (Total)	µg/kg	dw	0									2	17	18	17.5	17.5
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	0									3	490	580	543	560
1,2-Dichlorobenzene	µg/kg	dw	0									3	490	580	543	560
1,3-Dichlorobenzene	µg/kg	dw	0									3	490	580	543	560
1,4-Dichlorobenzene	µg/kg	dw	0									3	490	580	543	560
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									3	490	580	543	560
2,4,5-Trichlorophenol	µg/kg	dw	0									3	1,200	1,500	1,367	1,400
2,4,6-Trichlorophenol	µg/kg	dw	0									3	490	580	543	560
2,4-Dichlorophenol	µg/kg	dw	0									3	490	580	543	560
2,4-Dimethylphenol	µg/kg	dw	0									3	490	580	543	560
2,4-Dinitrophenol	µg/kg	dw	0									3	1,200	1,500	1,367	1,400
2,4-Dinitrotoluene	µg/kg	dw	0									3	490	580	543	560
2,6-Dinitrotoluene	µg/kg	dw	0									3	490	580	543	560
2-Chloronaphthalene	µg/kg	dw	0									3	490	580	543	560
2-Chlorophenol	µg/kg	dw	0									3	490	580	543	560
2-Methylphenol	µg/kg	dw	0									3	490	580	543	560
2-Nitroaniline	µg/kg	dw	0									3	1,200	1,500	1,367	1,400
2-Nitrophenol	µg/kg	dw	0									3	490	580	543	560
3,3'-Dichlorobenzidine	µg/kg	dw	0									3	490	580	543	560
3-Nitroaniline	µg/kg	dw	0									3	1,200	1,500	1,367	1,400
4,6-Dinitro-2-methylphenol	µg/kg	dw	0									3	1,200	1,500	1,367	1,400
4-Bromophenyl-phenyl ether	µg/kg	dw	0									3	490	580	543	560
4-Chloro-3-methylphenol	µg/kg	dw	0									3	490	580	543	560
4-Chloroaniline	µg/kg	dw	0									3	490	580	543	560
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									3	490	580	543	560
4-Methylphenol	µg/kg	dw	0									3	490	580	543	560
4-Nitroaniline	µg/kg	dw	0									3	1,200	1,500	1,367	1,400
4-Nitrophenol	µg/kg	dw	0									3	1,200	1,500	1,367	1,400
Bis(2-chloroethoxy)methane	µg/kg	dw	0									3	490	580	543	560
Bis(2-chloroethyl)ether	µg/kg	dw	0									3	490	580	543	560
Bis(2-ethylhexyl)phthalate	µg/kg	dw	1	78	78	78	78					2	560	580	570	570
Butylbenzylphthalate	µg/kg	dw	0									3	490	580	543	560
Carbazole	µg/kg	dw	0									3	490	580	543	560
Dibenzofuran	µg/kg	dw	0									3	490	580	543	560
Diethylphthalate	µg/kg	dw	0									3	490	580	543	560
Dimethylphthalate	µg/kg	dw	0									3	490	580	543	560
Di-n-butylphthalate	µg/kg	dw	0									3	490	580	543	560
Di-n-octylphthalate	µg/kg	dw	0									3	490	580	543	560
Hexachlorobenzene	µg/kg	dw	0									3	490	580	543	560
Hexachlorobenzene (GC)	µg/kg	dw	0									3	4.9	5.8	5.43	5.6

Table G1-37. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Hexachlorobenzene (GC/ECD)	µg/kg	dw	0									0				
Hexachlorobenzene (MS)	µg/kg	dw	0									0				
Hexachlorobutadiene	µg/kg	dw	0									3	490	580	543	560
Hexachlorocyclopentadiene	µg/kg	dw	0									3	490	580	543	560
Hexachloroethane	µg/kg	dw	0									3	490	580	543	560
Isophorone	µg/kg	dw	0									3	490	580	543	560
Nitrobenzene	µg/kg	dw	0									3	490	580	543	560
N-nitroso-di-n-propylamine	µg/kg	dw	0									3	490	580	543	560
N-Nitrosodiphenylamine	µg/kg	dw	0									3	490	580	543	560
Pentachlorophenol	µg/kg	dw	0									3	1,200	1,500	1,367	1,400
Phenol	µg/kg	dw	0									3	490	580	543	560
2-Methylnaphthalene	µg/kg	dw	0									3	490	580	543	560
Acenaphthene	µg/kg	dw	0									3	490	580	543	560
Acenaphthylene	µg/kg	dw	0									3	490	580	543	560
Anthracene	µg/kg	dw	0									3	490	580	543	560
Benzo(a)anthracene	µg/kg	dw	0									3	490	580	543	560
Benzo(a)pyrene	µg/kg	dw	1	89	89	89	89					2	490	560	525	525
Benzo(b)fluoranthene	µg/kg	dw	1	74	74	74	74					2	490	560	525	525
Benzo(g,h,i)perylene	µg/kg	dw	0									3	490	580	543	560
Benzo(k)fluoranthene	µg/kg	dw	1	76	76	76	76					2	490	560	525	525
Chrysene	µg/kg	dw	1	80	80	80	80					2	490	560	525	525
Dibenz(a,h)anthracene	µg/kg	dw	0									3	490	580	543	560
Fluoranthene	µg/kg	dw	1	73	73	73	73					2	490	560	525	525
Fluorene	µg/kg	dw	0									3	490	580	543	560
Indeno(1,2,3-cd)pyrene	µg/kg	dw	0									3	490	580	543	560
Naphthalene	µg/kg	dw	0									3	490	580	543	560
Phenanthrene	µg/kg	dw	0									3	490	580	543	560
Pyrene	µg/kg	dw	1	130	130	130	130					2	490	560	525	525
Pesticides/Polychlorinated Biphenyls																
4,4'-DDD	µg/kg	dw	0									3	4.9	5.8	5.43	5.6
4,4'-DDE	µg/kg	dw	0									3	4.9	5.8	5.43	5.6
4,4'-DDT	µg/kg	dw	0									3	4.9	5.8	5.43	5.6
Aldrin	µg/kg	dw	0									3	2.5	3	2.8	2.9
alpha-BHC	µg/kg	dw	0									3	2.5	3	2.8	2.9
alpha-Chlordane	µg/kg	dw	0									3	2.5	3	2.8	2.9
beta-BHC	µg/kg	dw	0									3	2.5	3	2.8	2.9
delta-BHC	µg/kg	dw	0									3	2.5	3	2.8	2.9
Dieldrin	µg/kg	dw	0									3	4.9	5.8	5.43	5.6
Endosulfan I	µg/kg	dw	0									3	2.5	3	2.8	2.9
Endosulfan II	µg/kg	dw	0									3	4.9	5.8	5.43	5.6
Endosulfan sulfate	µg/kg	dw	0									3	4.9	5.8	5.43	5.6
Endrin	µg/kg	dw	0									3	4.9	5.8	5.43	5.6
Endrin aldehyde	µg/kg	dw	0									3	4.9	5.8	5.43	5.6
Endrin ketone	µg/kg	dw	0									3	4.9	5.8	5.43	5.6
gamma-BHC (Lindane)	µg/kg	dw	0									3	2.5	3	2.8	2.9
gamma-Chlordane	µg/kg	dw	0									3	2.5	3	2.8	2.9
Heptachlor	µg/kg	dw	0									3	2.5	3	2.8	2.9

Table G1-37. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Heptachlor epoxide	µg/kg	dw	0									3	2.5	3	2.8	2.9
Methoxychlor	µg/kg	dw	0									3	25	30	28	29
Toxaphene	µg/kg	dw	0									3	250	300	280	290
Aroclor 1016	µg/kg	dw	0									3	15	18	16.7	17
Aroclor 1221	µg/kg	dw	0									3	30	35	33.0	34
Aroclor 1232	µg/kg	dw	0									3	15	18	16.7	17
Aroclor 1242	µg/kg	dw	0									3	15	18	16.7	17
Aroclor 1248	µg/kg	dw	0									3	15	18	16.7	17
Aroclor 1254	µg/kg	dw	0									3	15	18	16.7	17
Aroclor 1260	µg/kg	dw	0									3	15	18	16.7	17
Aroclor 1268	µg/kg	dw	0									3	15	18	16.7	17
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	0									3	0.1	0.45	0.27	0.25
Total TCDDs	ng/kg	dw	0									3	0.37	0.45	0.40	0.39
1,2,3,7,8-PeCDD	ng/kg	dw	0									3	0.19	2.09	0.85	0.28
Total PeCDDs	ng/kg	dw	0									3	0.39	2.09	0.99	0.49
1,2,3,4,7,8-HxCDD	ng/kg	dw	0									3	0.35	1.81	0.89	0.50
1,2,3,6,7,8-HxCDD	ng/kg	dw	0									3	0.32	1.65	0.81	0.45
1,2,3,7,8,9-HxCDD	ng/kg	dw	0									3	0.30	1.62	0.78	0.43
Total HxCDDs	ng/kg	dw	0									3	0.35	1.81	0.89	0.50
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	0									3	0.44	2.68	1.23	0.57
Total HpCDDs	ng/kg	dw	0									3	0.44	3.38	1.49	0.64
OCDD	ng/kg	dw	1	29.7	29.7	29.7	29.7					2	2.2	6.4	4.3	4.3
2,3,7,8-TCDF	ng/kg	dw	0									3	0.13	0.75	0.52	0.69
Total TCDFs	ng/kg	dw	0									3	0.13	1.67	0.85	0.75
1,2,3,7,8-PeCDF	ng/kg	dw	0									3	0.29	1.3	0.63	0.3
2,3,4,7,8-PeCDF	ng/kg	dw	0									3	0.27	1.3	0.62	0.30
Total PeCDFs	ng/kg	dw	0									3	0.30	1.3	0.73	0.6
1,2,3,4,7,8-HxCDF	ng/kg	dw	0									3	0.27	0.75	0.46	0.35
1,2,3,6,7,8-HxCDF	ng/kg	dw	0									3	0.17	0.73	0.41	0.33
1,2,3,7,8,9-HxCDF	ng/kg	dw	0									3	0.25	0.83	0.49	0.40
2,3,4,6,7,8-HxCDF	ng/kg	dw	0									3	0.22	0.77	0.45	0.37
Total HxCDFs	ng/kg	dw	0									3	0.27	1.2	0.62	0.40
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	0									3	0.39	3.14	1.31	0.40
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	0									3	0.12	1.62	0.65	0.21
Total HpCDFs	ng/kg	dw	0									3	0.39	3.14	1.33	0.46
OCDF	ng/kg	dw	0									3	0.57	2	1.05	0.57

Table G1-38. Summary Statistics for Upper Ninemile Creek Sediment Samples Collected in 1998 and 2001 by Honeywell/Exponent/BBL (45-75 cm)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Chloride (Measured)	mg/kg	dw	0									0				
Dry weight	µg/kg	dw	0									0				
Particles < 0.0012 mm	%	dw	0									0				
Particles < 0.0027 mm	%	dw	0									0				
Particles < 0.0057 mm	%	dw	0									0				
Particles < 0.0079 mm	%	dw	0									0				
Particles < 0.0108 mm	%	dw	0									0				
Particles < 0.0178 mm	%	dw	0									0				
Particles < 0.0276 mm	%	dw	0									0				
Particles < 0.074 mm (sieve #200)	%	dw	0									0				
Particles < 0.105 mm (sieve #140)	%	dw	0									0				
Particles < 0.250 mm (sieve #60)	%	dw	0									0				
Particles < 0.42 mm (sieve #40)	%	dw	0									0				
Particles < 0.84 mm (sieve #20)	%	dw	0									0				
Particles < 2.00 mm (sieve #10)	%	dw	0									0				
Particles < 4.75 mm (sieve #4)	%	dw	0									0				
Particles < 9.50 mm	%	dw	0									0				
Particles < 12.7 mm (1/2" sieve)	%	dw	0									0				
Particles < 19.0 mm	%	dw	0									0				
Particles < 25.4 mm (1" sieve)	%	dw	0									0				
Particles < 37.5 mm (1 1/2" sieve)	%	dw	0									0				
Particles < 50 mm (2" sieve)	%	dw	0									0				
Particles < 75 mm (3" sieve)	%	dw	0									0				
Particles < 150 mm (6" sieve)	%	dw	0									0				
Particles < 300 mm (12" sieve)	%	dw	0									0				
Percent clay	%	ww	0									0				
Percent gravel	%	dw	0									0				
Percent moisture	%	ww	0									0				
Percent sand	%	ww	0									0				
Percent silt	%	ww	0									0				
Total organic carbon	mg/kg	dw	3	17,800	22,800	20,667	21,400	2,579	1,489	-1.18		0				
Total solids	%	ww	3	57	62	59.7	60	2.52	1.45	-0.59		0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	0									0				
Antimony	mg/kg	dw	0									0				
Arsenic	mg/kg	dw	0									0				
Barium	mg/kg	dw	0									0				
Beryllium	mg/kg	dw	0									0				
Cadmium	mg/kg	dw	0									0				
Calcium	mg/kg	dw	0									0				
Chromium	mg/kg	dw	0									0				
Cobalt	mg/kg	dw	0									0				
Copper	mg/kg	dw	0									0				

Table G1-38. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Cyanide	mg/kg	dw	0									0				
Iron	mg/kg	dw	0									0				
Lead	mg/kg	dw	0									0				
Magnesium	mg/kg	dw	0									0				
Manganese	mg/kg	dw	0									0				
Methylmercury	µg/kg	dw	2	3.2E-02	4.0E-02	3.6E-02	3.6E-02	5.7E-03	4.0E-03			1	2.5E-02	2.5E-02	2.5E-02	2.5E-02
Nickel	mg/kg	dw	0									0				
Potassium	mg/kg	dw	0									0				
Selenium	mg/kg	dw	0									0				
Silver	mg/kg	dw	0									0				
Sodium	mg/kg	dw	0									0				
Thallium	mg/kg	dw	0									0				
Total Mercury	mg/kg	dw	3	0.09	0.12	0.10	0.1	1.5E-02	8.8E-03	0.94		0				
Vanadium	mg/kg	dw	0									0				
Zinc	mg/kg	dw	0									0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									0				
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									0				
1,1,2-Trichloroethane	µg/kg	dw	0									0				
1,1-Dichloroethane	µg/kg	dw	0									0				
1,1-Dichloroethene	µg/kg	dw	0									0				
1,2-Dichloroethane	µg/kg	dw	0									0				
1,2-Dichloroethene (Total)	µg/kg	dw	0									0				
1,2-Dichloropropane	µg/kg	dw	0									0				
2-Butanone	µg/kg	dw	0									0				
2-Hexanone	µg/kg	dw	0									0				
4-Methyl-2-pentanone	µg/kg	dw	0									0				
Acetone	µg/kg	dw	0									0				
Benzene	µg/kg	dw	0									0				
Bromodichloromethane	µg/kg	dw	0									0				
Bromoform	µg/kg	dw	0									0				
Bromomethane	µg/kg	dw	0									0				
Carbon disulfide	µg/kg	dw	0									0				
Carbon Tetrachloride	µg/kg	dw	0									0				
Chlorobenzene	µg/kg	dw	0									0				
Chloroethane	µg/kg	dw	0									0				
Chloroform	µg/kg	dw	0									0				
Chloromethane	µg/kg	dw	0									0				
cis-1,2-Dichloroethene	µg/kg	dw	0									0				
cis-1,3-Dichloropropene	µg/kg	dw	0									0				
Dibromochloromethane	µg/kg	dw	0									0				
Ethylbenzene	µg/kg	dw	0									0				
Methylene chloride	µg/kg	dw	0									0				
Styrene	µg/kg	dw	0									0				
Tetrachloroethene	µg/kg	dw	0									0				
Toluene	µg/kg	dw	0									0				
trans-1,2-Dichloroethene	µg/kg	dw	0									0				

Table G1-38. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
trans-1,3-Dichloropropene	µg/kg	dw	0									0				
Trichloroethene	µg/kg	dw	0									0				
Vinyl chloride	µg/kg	dw	0									0				
meta & para Xylenes	µg/kg	dw	0									0				
ortho-Xylene	µg/kg	dw	0									0				
Xylene (Total)	µg/kg	dw	0									0				
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	0									0				
1,2-Dichlorobenzene	µg/kg	dw	0									0				
1,3-Dichlorobenzene	µg/kg	dw	0									0				
1,4-Dichlorobenzene	µg/kg	dw	0									0				
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									0				
2,4,5-Trichlorophenol	µg/kg	dw	0									0				
2,4,6-Trichlorophenol	µg/kg	dw	0									0				
2,4-Dichlorophenol	µg/kg	dw	0									0				
2,4-Dimethylphenol	µg/kg	dw	0									0				
2,4-Dinitrophenol	µg/kg	dw	0									0				
2,4-Dinitrotoluene	µg/kg	dw	0									0				
2,6-Dinitrotoluene	µg/kg	dw	0									0				
2-Chloronaphthalene	µg/kg	dw	0									0				
2-Chlorophenol	µg/kg	dw	0									0				
2-Methylphenol	µg/kg	dw	0									0				
2-Nitroaniline	µg/kg	dw	0									0				
2-Nitrophenol	µg/kg	dw	0									0				
3,3'-Dichlorobenzidine	µg/kg	dw	0									0				
3-Nitroaniline	µg/kg	dw	0									0				
4,6-Dinitro-2-methylphenol	µg/kg	dw	0									0				
4-Bromophenyl-phenyl ether	µg/kg	dw	0									0				
4-Chloro-3-methylphenol	µg/kg	dw	0									0				
4-Chloroaniline	µg/kg	dw	0									0				
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									0				
4-Methylphenol	µg/kg	dw	0									0				
4-Nitroaniline	µg/kg	dw	0									0				
4-Nitrophenol	µg/kg	dw	0									0				
Bis(2-chloroethoxy)methane	µg/kg	dw	0									0				
Bis(2-chloroethyl)ether	µg/kg	dw	0									0				
Bis(2-ethylhexyl)phthalate	µg/kg	dw	0									0				
Butylbenzylphthalate	µg/kg	dw	0									0				
Carbazole	µg/kg	dw	0									0				
Dibenzofuran	µg/kg	dw	0									0				
Diethylphthalate	µg/kg	dw	0									0				
Dimethylphthalate	µg/kg	dw	0									0				
Di-n-butylphthalate	µg/kg	dw	0									0				
Di-n-octylphthalate	µg/kg	dw	0									0				
Hexachlorobenzene	µg/kg	dw	0									0				
Hexachlorobenzene (GC)	µg/kg	dw	0									0				

Table G1-38. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Hexachlorobenzene (GC/ECD)	µg/kg	dw	0									0				
Hexachlorobenzene (MS)	µg/kg	dw	0									0				
Hexachlorobutadiene	µg/kg	dw	0									0				
Hexachlorocyclopentadiene	µg/kg	dw	0									0				
Hexachloroethane	µg/kg	dw	0									0				
Isophorone	µg/kg	dw	0									0				
Nitrobenzene	µg/kg	dw	0									0				
N-nitroso-di-n-propylamine	µg/kg	dw	0									0				
N-Nitrosodiphenylamine	µg/kg	dw	0									0				
Pentachlorophenol	µg/kg	dw	0									0				
Phenol	µg/kg	dw	0									0				
2-Methylnaphthalene	µg/kg	dw	0									0				
Acenaphthene	µg/kg	dw	0									0				
Acenaphthylene	µg/kg	dw	0									0				
Anthracene	µg/kg	dw	0									0				
Benzo(a)anthracene	µg/kg	dw	0									0				
Benzo(a)pyrene	µg/kg	dw	0									0				
Benzo(b)fluoranthene	µg/kg	dw	0									0				
Benzo(g,h,i)perylene	µg/kg	dw	0									0				
Benzo(k)fluoranthene	µg/kg	dw	0									0				
Chrysene	µg/kg	dw	0									0				
Dibenz(a,h)anthracene	µg/kg	dw	0									0				
Fluoranthene	µg/kg	dw	0									0				
Fluorene	µg/kg	dw	0									0				
Indeno(1,2,3-cd)pyrene	µg/kg	dw	0									0				
Naphthalene	µg/kg	dw	0									0				
Phenanthrene	µg/kg	dw	0									0				
Pyrene	µg/kg	dw	0									0				
Pesticides/Polychlorinated Biphenyls																
4,4'-DDD	µg/kg	dw	0									0				
4,4'-DDE	µg/kg	dw	0									0				
4,4'-DDT	µg/kg	dw	0									0				
Aldrin	µg/kg	dw	0									0				
alpha-BHC	µg/kg	dw	0									0				
alpha-Chlordane	µg/kg	dw	0									0				
beta-BHC	µg/kg	dw	0									0				
delta-BHC	µg/kg	dw	0									0				
Dieldrin	µg/kg	dw	0									0				
Endosulfan I	µg/kg	dw	0									0				
Endosulfan II	µg/kg	dw	0									0				
Endosulfan sulfate	µg/kg	dw	0									0				
Endrin	µg/kg	dw	0									0				
Endrin aldehyde	µg/kg	dw	0									0				
Endrin ketone	µg/kg	dw	0									0				
gamma-BHC (Lindane)	µg/kg	dw	0									0				
gamma-Chlordane	µg/kg	dw	0									0				

Table G1-38. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Heptachlor	µg/kg	dw	0									0				
Heptachlor epoxide	µg/kg	dw	0									0				
Methoxychlor	µg/kg	dw	0									0				
Toxaphene	µg/kg	dw	0									0				
Aroclor 1016	µg/kg	dw	0									0				
Aroclor 1221	µg/kg	dw	0									0				
Aroclor 1232	µg/kg	dw	0									0				
Aroclor 1242	µg/kg	dw	0									0				
Aroclor 1248	µg/kg	dw	0									0				
Aroclor 1254	µg/kg	dw	0									0				
Aroclor 1260	µg/kg	dw	0									0				
Aroclor 1268	µg/kg	dw	0									0				
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	0									0				
Total TCDDs	ng/kg	dw	0									0				
1,2,3,7,8-PeCDD	ng/kg	dw	0									0				
Total PeCDDs	ng/kg	dw	0									0				
1,2,3,4,7,8-HxCDD	ng/kg	dw	0									0				
1,2,3,6,7,8-HxCDD	ng/kg	dw	0									0				
1,2,3,7,8,9-HxCDD	ng/kg	dw	0									0				
Total HxCDDs	ng/kg	dw	0									0				
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	0									0				
Total HpCDDs	ng/kg	dw	0									0				
OCDD	ng/kg	dw	0									0				
2,3,7,8-TCDF	ng/kg	dw	0									0				
Total TCDFs	ng/kg	dw	0									0				
1,2,3,7,8-PeCDF	ng/kg	dw	0									0				
2,3,4,7,8-PeCDF	ng/kg	dw	0									0				
Total PeCDFs	ng/kg	dw	0									0				
1,2,3,4,7,8-HxCDF	ng/kg	dw	0									0				
1,2,3,6,7,8-HxCDF	ng/kg	dw	0									0				
1,2,3,7,8,9-HxCDF	ng/kg	dw	0									0				
2,3,4,6,7,8-HxCDF	ng/kg	dw	0									0				
Total HxCDFs	ng/kg	dw	0									0				
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	0									0				
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	0									0				
Total HpCDFs	ng/kg	dw	0									0				
OCDF	ng/kg	dw	0									0				

Table G1-39. Summary Statistics for Upper Ninemile Creek Sediment Samples Collected in 1998 and 2001 by Honeywell/Exponent/BBL (75-105 cm)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Chloride (Measured)	mg/kg	dw	0									0				
Dry weight	µg/kg	dw	0									0				
Particles < 0.0012 mm	%	dw	0									0				
Particles < 0.0027 mm	%	dw	0									0				
Particles < 0.0057 mm	%	dw	0									0				
Particles < 0.0079 mm	%	dw	0									0				
Particles < 0.0108 mm	%	dw	0									0				
Particles < 0.0178 mm	%	dw	0									0				
Particles < 0.0276 mm	%	dw	0									0				
Particles < 0.074 mm (sieve #200)	%	dw	0									0				
Particles < 0.105 mm (sieve #140)	%	dw	0									0				
Particles < 0.250 mm (sieve #60)	%	dw	0									0				
Particles < 0.42 mm (sieve #40)	%	dw	0									0				
Particles < 0.84 mm (sieve #20)	%	dw	0									0				
Particles < 2.00 mm (sieve #10)	%	dw	0									0				
Particles < 4.75 mm (sieve #4)	%	dw	0									0				
Particles < 9.50 mm	%	dw	0									0				
Particles < 12.7 mm (1/2" sieve)	%	dw	0									0				
Particles < 19.0 mm	%	dw	0									0				
Particles < 25.4 mm (1" sieve)	%	dw	0									0				
Particles < 37.5 mm (1 1/2" sieve)	%	dw	0									0				
Particles < 50 mm (2" sieve)	%	dw	0									0				
Particles < 75 mm (3" sieve)	%	dw	0									0				
Particles < 150 mm (6" sieve)	%	dw	0									0				
Particles < 300 mm (12" sieve)	%	dw	0									0				
Percent clay	%	ww	0									0				
Percent gravel	%	dw	0									0				
Percent moisture	%	ww	0									0				
Percent sand	%	ww	0									0				
Percent silt	%	ww	0									0				
Total organic carbon	mg/kg	dw	1	40,200	40,200	40,200	40,200					0				
Total solids	%	ww	1	52	52	52	52					0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	0									0				
Antimony	mg/kg	dw	0									0				
Arsenic	mg/kg	dw	0									0				
Barium	mg/kg	dw	0									0				
Beryllium	mg/kg	dw	0									0				
Cadmium	mg/kg	dw	0									0				
Calcium	mg/kg	dw	0									0				
Chromium	mg/kg	dw	0									0				
Cobalt	mg/kg	dw	0									0				
Copper	mg/kg	dw	0									0				
Cyanide	mg/kg	dw	0									0				

Table G1-39. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Iron	mg/kg	dw	0									0				
Lead	mg/kg	dw	0									0				
Magnesium	mg/kg	dw	0									0				
Manganese	mg/kg	dw	0									0				
Methylmercury	µg/kg	dw	1	0.05	0.05	0.05	0.05					0				
Nickel	mg/kg	dw	0									0				
Potassium	mg/kg	dw	0									0				
Selenium	mg/kg	dw	0									0				
Silver	mg/kg	dw	0									0				
Sodium	mg/kg	dw	0									0				
Thallium	mg/kg	dw	0									0				
Total Mercury	mg/kg	dw	1	8.9E-02	8.9E-02	8.9E-02	8.9E-02					0				
Vanadium	mg/kg	dw	0									0				
Zinc	mg/kg	dw	0									0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									0				
1,1,2,2-Tetrachloroethane	µg/kg	dw	0	.								0	.			
1,1,2-Trichloroethane	µg/kg	dw	0									0				
1,1-Dichloroethane	µg/kg	dw	0									0				
1,1-Dichloroethene	µg/kg	dw	0									0				
1,2-Dichloroethane	µg/kg	dw	0									0				
1,2-Dichloroethene (Total)	µg/kg	dw	0									0				
1,2-Dichloropropane	µg/kg	dw	0									0				
2-Butanone	µg/kg	dw	0									0				
2-Hexanone	µg/kg	dw	0									0				
4-Methyl-2-pentanone	µg/kg	dw	0									0				
Acetone	µg/kg	dw	0									0				
Benzene	µg/kg	dw	0									0				
Bromodichloromethane	µg/kg	dw	0									0				
Bromoform	µg/kg	dw	0									0				
Bromomethane	µg/kg	dw	0									0				
Carbon disulfide	µg/kg	dw	0									0				
Carbon Tetrachloride	µg/kg	dw	0									0				
Chlorobenzene	µg/kg	dw	0									0				
Chloroethane	µg/kg	dw	0									0				
Chloroform	µg/kg	dw	0									0				
Chloromethane	µg/kg	dw	0									0				
cis-1,2-Dichloroethene	µg/kg	dw	0									0				
cis-1,3-Dichloropropene	µg/kg	dw	0									0				
Dibromochloromethane	µg/kg	dw	0									0				
Ethylbenzene	µg/kg	dw	0									0				
Methylene chloride	µg/kg	dw	0									0				
Styrene	µg/kg	dw	0									0				
Tetrachloroethene	µg/kg	dw	0									0				
Toluene	µg/kg	dw	0									0				
trans-1,2-Dichloroethene	µg/kg	dw	0									0				
trans-1,3-Dichloropropene	µg/kg	dw	0									0				

Table G1-39. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Trichloroethene	µg/kg	dw	0									0				
Vinyl chloride	µg/kg	dw	0									0				
meta & para Xylenes	µg/kg	dw	0									0				
ortho-Xylene	µg/kg	dw	0									0				
Xylene (Total)	µg/kg	dw	0									0				
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	0									0				
1,2-Dichlorobenzene	µg/kg	dw	0									0				
1,3-Dichlorobenzene	µg/kg	dw	0									0				
1,4-Dichlorobenzene	µg/kg	dw	0									0				
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									0				
2,4,5-Trichlorophenol	µg/kg	dw	0									0				
2,4,6-Trichlorophenol	µg/kg	dw	0									0				
2,4-Dichlorophenol	µg/kg	dw	0									0				
2,4-Dimethylphenol	µg/kg	dw	0									0				
2,4-Dinitrophenol	µg/kg	dw	0									0				
2,4-Dinitrotoluene	µg/kg	dw	0									0				
2,6-Dinitrotoluene	µg/kg	dw	0									0				
2-Chloronaphthalene	µg/kg	dw	0									0				
2-Chlorophenol	µg/kg	dw	0									0				
2-Methylphenol	µg/kg	dw	0									0				
2-Nitroaniline	µg/kg	dw	0									0				
2-Nitrophenol	µg/kg	dw	0									0				
3,3'-Dichlorobenzidine	µg/kg	dw	0									0				
3-Nitroaniline	µg/kg	dw	0									0				
4,6-Dinitro-2-methylphenol	µg/kg	dw	0									0				
4-Bromophenyl-phenyl ether	µg/kg	dw	0									0				
4-Chloro-3-methylphenol	µg/kg	dw	0									0				
4-Chloroaniline	µg/kg	dw	0									0				
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									0				
4-Methylphenol	µg/kg	dw	0									0				
4-Nitroaniline	µg/kg	dw	0									0				
4-Nitrophenol	µg/kg	dw	0									0				
Bis(2-chloroethoxy)methane	µg/kg	dw	0									0				
Bis(2-chloroethyl)ether	µg/kg	dw	0									0				
Bis(2-ethylhexyl)phthalate	µg/kg	dw	0									0				
Butylbenzylphthalate	µg/kg	dw	0									0				
Carbazole	µg/kg	dw	0									0				
Dibenzofuran	µg/kg	dw	0									0				
Diethylphthalate	µg/kg	dw	0									0				
Dimethylphthalate	µg/kg	dw	0									0				
Di-n-butylphthalate	µg/kg	dw	0									0				
Di-n-octylphthalate	µg/kg	dw	0									0				
Hexachlorobenzene	µg/kg	dw	0									0				
Hexachlorobenzene (GC)	µg/kg	dw	0									0				
Hexachlorobenzene (GC/ECD)	µg/kg	dw	0									0				

Table G1-39. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Hexachlorobenzene (MS)	µg/kg	dw	0									0				
Hexachlorobutadiene	µg/kg	dw	0									0				
Hexachlorocyclopentadiene	µg/kg	dw	0									0				
Hexachloroethane	µg/kg	dw	0									0				
Isophorone	µg/kg	dw	0									0				
Nitrobenzene	µg/kg	dw	0									0				
N-nitroso-di-n-propylamine	µg/kg	dw	0									0				
N-Nitrosodiphenylamine	µg/kg	dw	0									0				
Pentachlorophenol	µg/kg	dw	0									0				
Phenol	µg/kg	dw	0									0				
2-Methylnaphthalene	µg/kg	dw	0									0				
Acenaphthene	µg/kg	dw	0									0				
Acenaphthylene	µg/kg	dw	0									0				
Anthracene	µg/kg	dw	0									0				
Benzo(a)anthracene	µg/kg	dw	0									0				
Benzo(a)pyrene	µg/kg	dw	0									0				
Benzo(b)fluoranthene	µg/kg	dw	0									0				
Benzo(g,h,i)perylene	µg/kg	dw	0									0				
Benzo(k)fluoranthene	µg/kg	dw	0									0				
Chrysene	µg/kg	dw	0									0				
Dibenz(a,h)anthracene	µg/kg	dw	0									0				
Fluoranthene	µg/kg	dw	0									0				
Fluorene	µg/kg	dw	0									0				
Indeno(1,2,3-cd)pyrene	µg/kg	dw	0									0				
Naphthalene	µg/kg	dw	0									0				
Phenanthrene	µg/kg	dw	0									0				
Pyrene	µg/kg	dw	0									0				
Pesticides/Polychlorinated Biphenyls																
4,4'-DDD	µg/kg	dw	0									0				
4,4'-DDE	µg/kg	dw	0									0				
4,4'-DDT	µg/kg	dw	0									0				
Aldrin	µg/kg	dw	0									0				
alpha-BHC	µg/kg	dw	0									0				
alpha-Chlordane	µg/kg	dw	0									0				
beta-BHC	µg/kg	dw	0									0				
delta-BHC	µg/kg	dw	0									0				
Dieldrin	µg/kg	dw	0									0				
Endosulfan I	µg/kg	dw	0									0				
Endosulfan II	µg/kg	dw	0									0				
Endosulfan sulfate	µg/kg	dw	0									0				
Endrin	µg/kg	dw	0									0				
Endrin aldehyde	µg/kg	dw	0									0				
Endrin ketone	µg/kg	dw	0									0				
gamma-BHC (Lindane)	µg/kg	dw	0									0				
gamma-Chlordane	µg/kg	dw	0									0				
Heptachlor	µg/kg	dw	0									0				

Table G1-39. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Heptachlor epoxide	µg/kg	dw	0									0				
Methoxychlor	µg/kg	dw	0									0				
Toxaphene	µg/kg	dw	0									0				
Aroclor 1016	µg/kg	dw	0									0				
Aroclor 1221	µg/kg	dw	0									0				
Aroclor 1232	µg/kg	dw	0									0				
Aroclor 1242	µg/kg	dw	0									0				
Aroclor 1248	µg/kg	dw	0									0				
Aroclor 1254	µg/kg	dw	0									0				
Aroclor 1260	µg/kg	dw	0									0				
Aroclor 1268	µg/kg	dw	0									0				
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	0									0				
Total TCDDs	ng/kg	dw	0									0				
1,2,3,7,8-PeCDD	ng/kg	dw	0									0				
Total PeCDDs	ng/kg	dw	0									0				
1,2,3,4,7,8-HxCDD	ng/kg	dw	0									0				
1,2,3,6,7,8-HxCDD	ng/kg	dw	0									0				
1,2,3,7,8,9-HxCDD	ng/kg	dw	0									0				
Total HxCDDs	ng/kg	dw	0									0				
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	0									0				
Total HpCDDs	ng/kg	dw	0									0				
OCDD	ng/kg	dw	0									0				
2,3,7,8-TCDF	ng/kg	dw	0									0				
Total TCDFs	ng/kg	dw	0									0				
1,2,3,7,8-PeCDF	ng/kg	dw	0									0				
2,3,4,7,8-PeCDF	ng/kg	dw	0									0				
Total PeCDFs	ng/kg	dw	0									0				
1,2,3,4,7,8-HxCDF	ng/kg	dw	0									0				
1,2,3,6,7,8-HxCDF	ng/kg	dw	0									0				
1,2,3,7,8,9-HxCDF	ng/kg	dw	0									0				
2,3,4,6,7,8-HxCDF	ng/kg	dw	0									0				
Total HxCDFs	ng/kg	dw	0									0				
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	0									0				
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	0									0				
Total HpCDFs	ng/kg	dw	0									0				
OCDF	ng/kg	dw	0									0				

Table G1-40. Summary Statistics for Lower Ninemile Creek Sediment Samples Collected in 1998 and 2001 by Honeywell/Exponent/BBL (0-15 cm)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Chloride (Measured)	mg/kg	dw	6	1,300	27,900	11,380	6,135	12,014	4,905	0.85	-1.76	0				
Dry weight	µg/kg	dw	6	0.46	0.66	0.56	0.59	0.08	0.03	-0.43	-1.48	0				
Particles < 0.0012 mm	%	dw	6	3.1	20.0	9.17	7.85	6.02	2.46	1.34	2.02	0				
Particles < 0.0027 mm	%	dw	6	3.1	34.2	17.6	16.0	10.8	4.41	0.37	0.11	0				
Particles < 0.0057 mm	%	dw	6	4.2	48.4	33.2	38.6	16.8	6.87	-1.19	0.77	0				
Particles < 0.0079 mm	%	dw	6	7.4	64.6	43.8	48.7	21.1	8.61	-1.13	0.98	0				
Particles < 0.0108 mm	%	dw	6	9.5	76.0	51.9	58.8	24.5	10.0	-1.17	0.93	0				
Particles < 0.0178 mm	%	dw	6	24.4	82.4	61.6	69.1	22.2	9.06	-1.06	0.22	0				
Particles < 0.0276 mm	%	dw	6	33.0	85.7	66.4	73.3	20.3	8.28	-0.99	-0.09	0				
Particles < 0.074 mm (sieve #200)	%	dw	6	39.9	90.1	74.3	80.8	19.6	8.00	-1.29	1.16	0				
Particles < 0.105 mm (sieve #140)	%	dw	6	45.2	91.5	77.6	84.1	18.2	7.44	-1.36	1.46	0				
Particles < 0.250 mm (sieve #60)	%	dw	6	58.9	96.5	85.8	89.9	13.9	5.66	-1.93	3.99	0				
Particles < 0.42 mm (sieve #40)	%	dw	6	66.9	97.5	88.4	91.5	11.1	4.55	-1.88	3.87	0				
Particles < 0.84 mm (sieve #20)	%	dw	6	75.1	98.0	90.9	92.8	8.26	3.37	-1.80	3.61	0				
Particles < 2.00 mm (sieve #10)	%	dw	6	81.2	98.4	93.1	94.6	6.37	2.60	-1.63	2.86	0				
Particles < 4.75 mm (sieve #4)	%	dw	6	88.7	99.0	95.6	97.2	4.18	1.71	-1.00	-0.19	0				
Particles < 9.50 mm	%	dw	6	93.4	100	97.9	98.9	2.70	1.10	-1.02	-0.07	0				
Particles < 12.7 mm (1/2" sieve)	%	dw	6	95.1	100	98.7	99.4	1.91	0.78	-1.85	3.57	0				
Particles < 19.0 mm	%	dw	6	95.1	100	99.2	100.0	2.01	0.82	-2.45	6.00	0				
Particles < 25.4 mm (1" sieve)	%	dw	6	100	100	100	100	0	0			0				
Particles < 37.5 mm (1 1/2" sieve)	%	dw	6	100	100	100	100	0	0			0				
Particles < 50 mm (2" sieve)	%	dw	6	100	100	100	100	0	0			0				
Particles < 75 mm (3" sieve)	%	dw	6	100	100	100	100	0	0			0				
Particles < 150 mm (6" sieve)	%	dw	6	100	100	100	100	0	0			0				
Particles < 300 mm (12" sieve)	%	dw	6	100	100	100	100	0	0			0				
Percent clay	%	ww	6	3.09	27.7	13.5	12	8.48	3.46	0.82	0.95	0				
Percent gravel	%	dw	6	1.6	18.8	6.91	5.38	6.37	2.60	1.63	2.86	0				
Percent moisture	%	ww	6	48.1	81.4	65.9	68.5	13.0	5.30	-0.42	-1.38	0				
Percent sand	%	ww	6	8.39	44.6	22.2	17.5	14.1	5.77	0.90	-0.57	0				
Percent silt	%	ww	6	33.5	77.7	57.5	59.5	17.9	7.29	-0.22	-2.13	0				
Total organic carbon	mg/kg	dw	55	1,820	74,500	19,277	13,800	16,516	2,227	1.47	1.77	0				
Total solids	%	ww	55	36.5	81.2	60.7	60.2	10.9	1.47	0.11	-0.62	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	34	1,050	10,900	4,886	4,635	2,319	398	0.69	0.31	0				
Antimony	mg/kg	dw	5	0.24	0.42	0.37	0.41	0.08	0.03	-1.61	2.21	29	0.19	15.9	2.71	0.27
Arsenic	mg/kg	dw	34	0.82	23.7	6.12	3.9	5.75	0.99	2.12	3.79	0				
Barium	mg/kg	dw	34	35.2	167	67.8	63.3	23.3	4.00	2.62	9.44	0				
Beryllium	mg/kg	dw	28	0.15	2.1	0.42	0.37	0.36	0.07	4.14	19.7	6	0.12	0.6	0.34	0.33
Cadmium	mg/kg	dw	11	0.07	0.38	0.21	0.18	0.10	0.03	0.56	-0.92	23	0.03	1.9	0.45	0.05
Calcium	mg/kg	dw	34	23,600	387,000	200,765	200,000	92,601	15,881	-0.16	-0.41	0				
Chromium	mg/kg	dw	34	4.1	27.1	13.8	12.7	5.61	0.96	0.52	0.13	0				
Cobalt	mg/kg	dw	34	1.9	7.1	4.13	3.8	1.53	0.26	0.16	-1.18	0				
Copper	mg/kg	dw	34	9.2	80.8	24.6	23.1	14.1	2.41	1.97	6.61	0				
Cyanide	mg/kg	dw	4	0.99	8.4	3.05	1.4	3.582	1.79	1.96	3.84	30	0.66	5.5	1.64	0.90
Iron	mg/kg	dw	34	3,260	18,600	10,262	9,910	4,317	740	0.18	-0.89	0				
Lead	mg/kg	dw	34	3.5	194	39.7	26.2	44.1	7.57	2.23	4.82	0				

Table G1-40. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Magnesium	mg/kg	dw	34	1,780	29,000	11,390	11,050	6,264	1,074	1.16	2.04	0				
Manganese	mg/kg	dw	34	112	779	377	344	157	27.0	0.94	1.01	0				
Methylmercury	µg/kg	dw	26	0.03	6.26	2.48	2.15	1.63	0.32	0.75	0.11	0				
Nickel	mg/kg	dw	34	6.4	33	15.1	13.6	6.77	1.16	1.13	0.74	0				
Potassium	mg/kg	dw	34	215	1,710	932	800	424	72.7	0.35	-1.01	0				
Selenium	mg/kg	dw	23	0.33	1.9	0.87	0.78	0.38	0.08	1.24	1.73	11	0.29	1.6	0.96	1.2
Silver	mg/kg	dw	0									34	0.09	1.3	0.31	0.13
Sodium	mg/kg	dw	34	334	14,900	3,907	2,350	3,769	646	1.65	2.44	0				
Thallium	mg/kg	dw	10	0.56	2.1	1.13	0.98	0.53	0.17	1.14	0.24	24	0.46	1.9	0.85	0.70
Total Mercury	mg/kg	dw	55	0.01	21.1	3.08	0.84	5.44	0.73	2.26	3.93	0				
Vanadium	mg/kg	dw	34	3.1	19.8	10.5	10.7	4.21	0.72	0.14	-0.72	0				
Zinc	mg/kg	dw	34	24	195	62.1	51.8	34.1	5.86	2.20	6.18	0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									12	8.2	1,800	163	16.5
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									12	8.2	1,800	163	16.5
1,1,2-Trichloroethane	µg/kg	dw	0									12	8.2	1,800	163	16.5
1,1-Dichloroethane	µg/kg	dw	0									12	8.2	1,800	163	16.5
1,1-Dichloroethene	µg/kg	dw	0									12	8.2	1,800	163	16.5
1,2-Dichloroethane	µg/kg	dw	0									12	8.2	1,800	163	16.5
1,2-Dichloroethene (Total)	µg/kg	dw	0									6	16	22	18.8	19
1,2-Dichloropropane	µg/kg	dw	0									12	8.2	1,800	163	16.5
2-Butanone	µg/kg	dw	6	3.7	85	28.5	16.8	31.8	13.0	1.36	1.37	6	16	3,600	616	20
2-Hexanone	µg/kg	dw	2	6.4	6.9	6.65	6.65	0.35	0.25			10	16	3,600	377	19
4-Methyl-2-pentanone	µg/kg	dw	0									12	16	3,600	318	19
Acetone	µg/kg	dw	8	45	480	146	86.5	150	52.9	2.02	3.86	4	33	7,200	1,830	42.5
Benzene	µg/kg	dw	1	12	12	12	12					11	8.2	1,800	177	16
Bromodichloromethane	µg/kg	dw	0									12	8.2	1,800	163	16.5
Bromoform	µg/kg	dw	0									12	8.2	1,800	163	16.5
Bromomethane	µg/kg	dw	0									12	8.2	1,800	163	16.5
Carbon disulfide	µg/kg	dw	4	2	9.6	6.8	7.8	3.50	1.75	-1.16	0.36	8	16	3,600	467	20
Carbon Tetrachloride	µg/kg	dw	0									12	8.2	1,800	163	16.5
Chlorobenzene	µg/kg	dw	0									12	8.2	1,800	163	16.5
Chloroethane	µg/kg	dw	0									12	8.2	1,800	163	16.5
Chloroform	µg/kg	dw	0									12	8.2	1,800	163	16.5
Chloromethane	µg/kg	dw	0									12	8.2	1,800	163	16.5
cis-1,2-Dichloroethene	µg/kg	dw	0									6	8.2	1,800	308	10.1
cis-1,3-Dichloropropene	µg/kg	dw	0									12	8.2	1,800	163	16.5
Dibromochloromethane	µg/kg	dw	0									12	8.2	1,800	163	16.5
Ethylbenzene	µg/kg	dw	0									12	8.2	1,800	163	16.5
Methylene chloride	µg/kg	dw	8	15	58,000	8,970	54	20,118	7,113	2.67	7.26	4	9.2	21	15.3	15.5
Styrene	µg/kg	dw	0									12	8.2	1,800	163	16.5
Tetrachloroethene	µg/kg	dw	1	4.8	4.8	4.8	4.8					11	8.2	1,800	177	16
Toluene	µg/kg	dw	0									12	8.2	1,800	163	16.5
trans-1,2-Dichloroethene	µg/kg	dw	0									6	8.2	1,800	308	10.1
trans-1,3-Dichloropropene	µg/kg	dw	0									12	8.2	1,800	163	16.5
Trichloroethene	µg/kg	dw	1	2.1	2.1	2.1	2.1					11	8.2	1,800	177	16

Table G1-40. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Vinyl chloride	µg/kg	dw	0									12	8.2	1,800	163	16.5
meta & para Xylenes	µg/kg	dw	0									6	8.2	1,800	308	10.1
ortho-Xylene	µg/kg	dw	0									6	8.2	1,800	308	10.1
Xylene (Total)	µg/kg	dw	0									6	16	22	18.8	19
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	1	290	290	290	290					27	420	770	571	540
1,2-Dichlorobenzene	µg/kg	dw	4	56	300	161	144	112	55.8	0.58	-2.13	24	420	770	564	530
1,3-Dichlorobenzene	µg/kg	dw	2	70	89	79.5	79.5	13.4	9.5			26	420	770	574	545
1,4-Dichlorobenzene	µg/kg	dw	11	50	1,700	313	160	471	142	3.06	9.71	17	420	770	544	520
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									28	420	770	573	545
2,4,5-Trichlorophenol	µg/kg	dw	0									28	1,000	1,900	1,379	1,350
2,4,6-Trichlorophenol	µg/kg	dw	0									28	420	770	573	545
2,4-Dichlorophenol	µg/kg	dw	0									28	420	770	573	545
2,4-Dimethylphenol	µg/kg	dw	0									28	420	770	573	545
2,4-Dinitrophenol	µg/kg	dw	0									28	1,000	1,900	1,379	1,350
2,4-Dinitrotoluene	µg/kg	dw	0									28	420	770	573	545
2,6-Dinitrotoluene	µg/kg	dw	0									28	420	770	573	545
2-Chloronaphthalene	µg/kg	dw	0									28	420	770	573	545
2-Chlorophenol	µg/kg	dw	0									28	420	770	573	545
2-Methylphenol	µg/kg	dw	4	57	530	334	375	231	116	-0.46	-3.39	24	420	770	565	530
2-Nitroaniline	µg/kg	dw	0									28	42	1,800	372	60.5
2-Nitrophenol	µg/kg	dw	0									28	420	770	573	545
3,3'-Dichlorobenzidine	µg/kg	dw	0									28	420	770	573	545
3-Nitroaniline	µg/kg	dw	0									28	1,000	1,900	1,379	1,350
4,6-Dinitro-2-methylphenol	µg/kg	dw	0									28	1,000	1,900	1,379	1,350
4-Bromophenyl-phenyl ether	µg/kg	dw	0									28	420	770	573	545
4-Chloro-3-methylphenol	µg/kg	dw	0									28	420	770	573	545
4-Chloroaniline	µg/kg	dw	0									28	420	770	573	545
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									28	420	770	573	545
4-Methylphenol	µg/kg	dw	10	55	1,700	508	175	577	182	1.35	0.70	18	420	770	566	530
4-Nitroaniline	µg/kg	dw	0									28	1,000	1,900	1,379	1,350
4-Nitrophenol	µg/kg	dw	0									28	1,000	1,900	1,379	1,350
Bis(2-chloroethoxy)methane	µg/kg	dw	0									28	420	770	573	545
Bis(2-chloroethyl)ether	µg/kg	dw	0									28	42	720	175	60.5
Bis(2-ethylhexyl)phthalate	µg/kg	dw	23	50	1,300	262	200	283	59.0	2.82	8.59	5	440	520	466	450
Butylbenzylphthalate	µg/kg	dw	0									28	420	770	573	545
Carbazole	µg/kg	dw	5	71	110	90.4	84	18.5	8.26	0.34	-2.95	23	440	760	567	540
Dibenzofuran	µg/kg	dw	3	51	500	205	65	255	147	1.73		25	440	770	580	550
Diethylphthalate	µg/kg	dw	0									28	420	770	573	545
Dimethylphthalate	µg/kg	dw	0									28	420	770	573	545
Di-n-butylphthalate	µg/kg	dw	0									28	420	770	573	545
Di-n-octylphthalate	µg/kg	dw	1	94	94	94	94					27	440	770	579	550
Hexachlorobenzene	µg/kg	dw	1	3,200	3,200	3,200	3,200					5	520	720	626	650
Hexachlorobenzene (GC)	µg/kg	dw	5	6.2	1,700	409	15	733	328	2.07	4.34	1	5.9	5.9	5.9	5.9
Hexachlorobenzene (GC/ECD)	µg/kg	dw	21	7	500	88.8	40	130	28.3	2.16	4.41	1	10	10	10	10
Hexachlorobenzene (MS)	µg/kg	dw	8	45	1,000	289	155	324	115	1.90	3.35	14	420	770	561	515

Table G1-40. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Hexachlorobutadiene	µg/kg	dw	1	170	170	170	170					27	420	770	574	540
Hexachlorocyclopentadiene	µg/kg	dw	0									28	420	770	573	545
Hexachloroethane	µg/kg	dw	0									28	420	770	573	545
Isophorone	µg/kg	dw	0									28	420	770	573	545
Nitrobenzene	µg/kg	dw	0									28	420	770	573	545
N-nitroso-di-n-propylamine	µg/kg	dw	0									28	42	720	175	60.5
N-Nitrosodiphenylamine	µg/kg	dw	0									28	420	770	573	545
Pentachlorophenol	µg/kg	dw	0									27	1,000	1,900	1,381	1,400
Phenol	µg/kg	dw	7	59	220	142	160	69.7	26.3	-0.09	-2.23	21	420	770	570	540
2-Methylnaphthalene	µg/kg	dw	3	45	2,300	842	180	1,265	730	1.71		25	440	770	580	550
Acenaphthene	µg/kg	dw	4	57	81	68.3	67.5	9.91	4.96	0.44	1.17	24	44	720	195	60.5
Acenaphthylene	µg/kg	dw	2	79	90	84.5	84.5	7.78	5.50			26	440	770	577	545
Anthracene	µg/kg	dw	8	72	310	151	140	77.2	27.3	1.30	2.02	20	44	650	160	60.5
Benzo(a)anthracene	µg/kg	dw	19	53	1,100	310	220	287	65.8	1.59	2.22	9	44	590	162	51
Benzo(a)pyrene	µg/kg	dw	17	62	1,100	328	220	285	69.2	1.60	2.36	11	44	590	143	51
Benzo(b)fluoranthene	µg/kg	dw	21	63	2,100	468	340	516	113	2.07	4.38	7	440	590	496	480
Benzo(g,h,i)perylene	µg/kg	dw	12	57	420	145	105	110	31.8	1.73	2.70	16	42	650	153	51.5
Benzo(k)fluoranthene	µg/kg	dw	14	86	650	253	190	192	51.3	1.13	0.02	14	44	590	126	51.5
Chrysene	µg/kg	dw	20	56	1,300	353	245	323	72.3	1.65	2.69	8	440	590	498	495
Dibenz(a,h)anthracene	µg/kg	dw	2	110	130	120	120	14.1	10			26	42	650	136	56
Fluoranthene	µg/kg	dw	21	87	2,600	618	450	620	135	1.97	4.43	7	44	590	192	47
Fluorene	µg/kg	dw	6	52	140	96.3	86.5	32.8	13.4	0.26	-0.90	22	44	720	181	60.5
Indeno(1,2,3-cd)pyrene	µg/kg	dw	13	57	500	182	120	144	39.9	1.28	0.43	15	42	590	120	51
Naphthalene	µg/kg	dw	4	59	2,000	566	103	957	478	1.99	3.97	24	44	720	197	62
Phenanthrene	µg/kg	dw	20	72	1,400	385	250	374	83.6	1.65	2.28	8	44	590	174	49
Pyrene	µg/kg	dw	21	80	2,400	601	410	604	132	1.74	2.97	7	440	590	496	480
Pesticides/Polychlorinated Biphenyls																
4,4'-DDD	µg/kg	dw	4	1.7	2.7	2.2	2.2	0.52	0.26	0.00	-5.64	24	4.5	52	8.34	5.6
4,4'-DDE	µg/kg	dw	2	1.6	7.4	4.5	4.5	4.10	2.9			26	4.5	52	8.20	5.95
4,4'-DDT	µg/kg	dw	1	1.6	1.6	1.6	1.6					26	4.2	52	8.14	5.6
Aldrin	µg/kg	dw	5	0.76	2.4	1.32	1.3	0.66	0.29	1.44	2.29	23	2.1	27	4.21	2.7
alpha-BHC	µg/kg	dw	0									28	2.1	27	4.03	2.85
alpha-Chlordane	µg/kg	dw	4	0.27	9.8	4.87	4.7	4.29	2.14	0.15	-2.80	24	2.1	27	4.17	2.85
beta-BHC	µg/kg	dw	0									28	2.1	27	4.03	2.85
delta-BHC	µg/kg	dw	1	1.5	1.5	1.5	1.5					27	2.1	27	4.04	2.7
Dieldrin	µg/kg	dw	1	0.46	0.46	0.46	0.46					26	4.5	52	8.22	5.95
Endosulfan I	µg/kg	dw	0									28	2.1	27	4.03	2.85
Endosulfan II	µg/kg	dw	6	0.76	8.2	4.06	4.1	2.94	1.20	0.19	-1.37	22	4.2	52	8.48	5.95
Endosulfan sulfate	µg/kg	dw	1	13	13	13	13					27	4.2	52	8.01	5.3
Endrin	µg/kg	dw	2	3.6	17	10.3	10.3	9.48	6.7			26	4.2	52	8.11	5.6
Endrin aldehyde	µg/kg	dw	1	7.4	7.4	7.4	7.4					27	4.2	52	8.06	5.9
Endrin ketone	µg/kg	dw	3	1.9	6.6	4.17	4	2.35	1.36	0.32		25	4.5	52	8.29	5.9
gamma-BHC (Lindane)	µg/kg	dw	0									28	2.1	27	4.03	2.85
gamma-Chlordane	µg/kg	dw	3	0.61	1.3	1.04	1.2	0.37	0.22	-1.59		25	2.1	27	4.08	2.7
Heptachlor	µg/kg	dw	0									28	2.1	27	4.03	2.85
Heptachlor epoxide	µg/kg	dw	6	0.3	3.8	1.98	2.05	1.35	0.55	0.09	-1.74	21	2.2	27	4.52	3.1

Table G1-40. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	DETECTS Minimum Detection	DETECTS Maximum Detection	DETECTS Mean	DETECTS Median	DETECTS Standard Deviation	DETECTS Standard Error	DETECTS Skewness	DETECTS Kurtosis	NON-DETECTS N	NON-DETECTS Minimum Detection Limit	NON-DETECTS Maximum Detection Limit	NON-DETECTS Mean	NON-DETECTS Median
Methoxychlor	µg/kg	dw	2	3.1	23	13.1	13.1	14.1	9.95			26	21	270	41.2	28.5
Toxaphene	µg/kg	dw	0									28	210	2,700	403	285
Aroclor 1016	µg/kg	dw	0									34	16	700	96.0	30
Aroclor 1221	µg/kg	dw	0									34	20	700	99.2	34
Aroclor 1232	µg/kg	dw	0									34	16	700	96.0	30
Aroclor 1242	µg/kg	dw	0									34	16	700	96.0	30
Aroclor 1248	µg/kg	dw	0									34	16	700	96.0	30
Aroclor 1254	µg/kg	dw	15	9	300	55.3	20	82.9	21.4	2.47	5.65	19	17	700	133	30
Aroclor 1260	µg/kg	dw	1	7	7	7	7					33	16	700	98.0	30
Aroclor 1268	µg/kg	dw	13	4	1,000	118	20	271	75.1	3.36	11.6	21	16	200	40.0	30
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	0									28	0.17	1.1	0.38	0.29
Total TCDDs	ng/kg	dw	8	0.54	3.65	1.71	1.43	1.02	0.36	0.98	0.53	20	0.18	1.5	0.43	0.35
1,2,3,7,8-PeCDD	ng/kg	dw	0									28	0.16	1.4	0.36	0.26
Total PeCDDs	ng/kg	dw	1	6.67	6.67	6.67	6.67					27	0.16	14.7	0.99	0.26
1,2,3,4,7,8-HxCDD	ng/kg	dw	1	0.35	0.35	0.35	0.35					27	0.11	1.99	0.35	0.23
1,2,3,6,7,8-HxCDD	ng/kg	dw	11	0.40	2.29	1.05	0.90	0.55	0.17	1.10	1.35	17	0.13	3.25	0.89	0.32
1,2,3,7,8,9-HxCDD	ng/kg	dw	2	0.98	1.04	1.01	1.01	0.04	0.03			26	0.12	2.38	0.52	0.27
Total HxCDDs	ng/kg	dw	20	0.59	18.8	6.45	4.36	5.61	1.25	1.28	0.38	8	0.13	0.48	0.28	0.26
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	27	0.34	93.1	18.7	10.5	21.2	4.08	2.05	4.98	1	0.32	0.32	0.32	0.32
Total HpCDDs	ng/kg	dw	26	0.34	201	39.1	23.2	45.1	8.84	2.22	5.96	2	0.38	0.61	0.49	0.49
OCDD	ng/kg	dw	24	7.37	573	159	88.0	165	33.7	1.52	1.34	4	1.57	3.35	2.77	3.08
2,3,7,8-TCDF	ng/kg	dw	23	0.21	186	24.1	7.7	41.5	8.66	3.05	10.7	5	0.08	0.65	0.31	0.29
Total TCDFs	ng/kg	dw	23	0.98	569	78.5	24.1	130	27.2	2.79	8.94	5	0.18	0.65	0.35	0.29
1,2,3,7,8-PeCDF	ng/kg	dw	17	0.63	24	7.95	3.67	8.72	2.11	1.04	-0.61	11	0.11	4.88	1.00	0.18
2,3,4,7,8-PeCDF	ng/kg	dw	15	0.48	21.2	4.54	2.99	5.47	1.41	2.23	5.93	13	0.11	4.41	0.70	0.19
Total PeCDFs	ng/kg	dw	24	0.38	141	21.7	8.03	33.1	6.75	2.47	6.81	4	0.18	0.36	0.27	0.27
1,2,3,4,7,8-HxCDF	ng/kg	dw	24	0.35	20.8	6.51	4.73	6.62	1.35	0.91	-0.43	4	0.12	4.33	1.24	0.26
1,2,3,6,7,8-HxCDF	ng/kg	dw	13	0.50	5.40	2.50	2.10	1.65	0.46	0.58	-0.56	15	0.12	4.74	0.92	0.24
1,2,3,7,8,9-HxCDF	ng/kg	dw	7	0.25	1.26	0.81	0.78	0.38	0.14	-0.41	-1.24	21	0.13	0.72	0.29	0.28
2,3,4,6,7,8-HxCDF	ng/kg	dw	6	0.78	1.21	0.95	0.89	0.18	0.07	0.74	-1.41	22	0.12	2.26	0.44	0.25
Total HxCDFs	ng/kg	dw	25	0.35	40.8	14.4	11	12.2	2.44	0.77	-0.49	3	0.14	0.33	0.25	0.29
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	23	0.43	24.7	9.22	9.25	6.23	1.30	0.79	0.28	5	0.10	0.40	0.26	0.30
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	12	0.35	6.22	2.75	2.12	1.66	0.48	0.71	0.16	16	0.13	4.57	0.78	0.36
Total HpCDFs	ng/kg	dw	22	3.42	48.7	21.4	19.8	12.9	2.76	0.58	-0.50	6	0.13	0.40	0.24	0.23
OCDF	ng/kg	dw	23	0.78	48.5	19.4	18.0	13.7	2.86	0.61	-0.30	5	0.24	1.94	0.75	0.57

Table G1-41. Summary Statistics for Lower Ninemile Creek Sediment Samples Collected in 1998 and 2001 by Honeywell/Exponent/BBL (15-45 cm)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Chloride (Measured)	mg/kg	dw	5	5,260	28,100	17,562	18,400	9,965	4,456	-0.21	-2.38	0				
Dry weight	µg/kg	dw	5	0.53	0.65	0.60	0.61	0.06	0.02	-0.34	-2.69	0				
Particles < 0.0012 mm	%	dw	5	3.1	27.2	10.8	7.8	9.41	4.21	1.92	4.06	0				
Particles < 0.0027 mm	%	dw	5	9.7	36.8	20.0	17.8	10.1	4.54	1.43	2.81	0				
Particles < 0.0057 mm	%	dw	5	23.7	48.6	36.9	40.6	12.0	5.35	-0.35	-3.05	0				
Particles < 0.0079 mm	%	dw	5	29.3	59.7	47.5	54.0	13.6	6.07	-0.68	-2.25	0				
Particles < 0.0108 mm	%	dw	5	33.9	70.4	55.6	60.4	15.2	6.80	-0.74	-1.11	0				
Particles < 0.0178 mm	%	dw	5	39.5	82.3	64.3	70.0	16.7	7.47	-0.80	-0.07	0				
Particles < 0.0276 mm	%	dw	5	44.1	87.2	69.6	76.5	16.7	7.46	-0.95	0.49	0				
Particles < 0.074 mm (sieve #200)	%	dw	5	52.3	96.5	77.3	83.7	16.9	7.55	-0.73	0.24	0				
Particles < 0.105 mm (sieve #140)	%	dw	5	58.7	97.3	81.0	86.7	14.7	6.57	-0.84	0.58	0				
Particles < 0.250 mm (sieve #60)	%	dw	5	87.3	98.3	92.3	92.4	4.17	1.86	0.42	0.04	0				
Particles < 0.42 mm (sieve #40)	%	dw	5	91.2	98.6	94.2	93.2	2.98	1.33	0.78	-0.68	0				
Particles < 0.84 mm (sieve #20)	%	dw	5	92.9	99.0	95.8	94.8	2.92	1.31	0.38	-3.06	0				
Particles < 2.00 mm (sieve #10)	%	dw	5	93.8	99.9	96.8	96.8	2.75	1.23	0.01	-2.77	0				
Particles < 4.75 mm (sieve #4)	%	dw	5	94.3	100.0	97.7	98.1	2.45	1.09	-0.60	-1.29	0				
Particles < 9.50 mm	%	dw	5	94.4	100.0	98.4	98.8	2.29	1.03	-1.82	3.54	0				
Particles < 12.7 mm (1/2" sieve)	%	dw	5	95.2	100.0	98.6	99.1	1.96	0.88	-1.78	3.35	0				
Particles < 19.0 mm	%	dw	5	100	100	100	100	0	0			0				
Particles < 25.4 mm (1" sieve)	%	dw	5	100	100	100	100	0	0			0				
Particles < 37.5 mm (1 1/2" sieve)	%	dw	5	100	100	100	100	0	0			0				
Particles < 50 mm (2" sieve)	%	dw	5	100	100	100	100	0	0			0				
Particles < 75 mm (3" sieve)	%	dw	5	100	100	100	100	0	0			0				
Particles < 150 mm (6" sieve)	%	dw	5	100	100	100	100	0	0			0				
Particles < 300 mm (12" sieve)	%	dw	5	100	100	100	100	0	0			0				
Percent clay	%	ww	5	6.22	32.7	15.6	12.9	10.0	4.48	1.70	3.58	0				
Percent gravel	%	dw	5	0.13	6.2	3.16	3.19	2.75	1.23	-0.01	-2.77	0				
Percent moisture	%	ww	5	45.4	67.3	54.9	56.5	8.47	3.79	0.56	0.06	0				
Percent sand	%	ww	5	6.3	46.0	22.7	18.8	15.7	7.02	0.80	-0.17	0				
Percent silt	%	ww	5	36.2	80.1	58.5	60.6	17.0	7.59	-0.12	-0.72	0				
Total organic carbon	mg/kg	dw	58	3,870	129,000	24,297	16,550	23,820	3,128	2.35	6.83	0				
Total solids	%	ww	58	38	86.5	60.1	59.2	9.36	1.23	0.69	1.00	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	36	1,470	12,500	4,588	4,730	2,232	372	1.04	3.12	0				
Antimony	mg/kg	dw	4	0.39	0.84	0.72	0.83	0.22	0.11	-1.99	3.97	32	0.17	14.9	2.37	0.26
Arsenic	mg/kg	dw	36	0.61	33.2	7.09	4.85	7.87	1.31	2.06	3.79	0				
Barium	mg/kg	dw	36	13.6	126	61.7	66.1	22.3	3.72	0.07	0.96	0				
Beryllium	mg/kg	dw	31	0.13	1.1	0.40	0.3	0.27	0.05	1.42	1.60	5	0.21	0.62	0.32	0.27
Cadmium	mg/kg	dw	17	0.03	0.36	0.13	0.09	0.10	0.02	1.31	0.97	19	0.03	1.60	0.42	0.05
Calcium	mg/kg	dw	36	21,000	386,000	192,717	189,500	92,829	15,471	-0.16	-0.61	0				
Chromium	mg/kg	dw	36	3.7	138	17.0	11.8	22.4	3.74	4.79	25.6	0				
Cobalt	mg/kg	dw	36	1	8.5	3.84	3.6	1.81	0.30	0.45	-0.12	0				
Copper	mg/kg	dw	36	4.7	92.2	25.7	18.4	22.1	3.69	1.82	3.00	0				
Cyanide	mg/kg	dw	3	1.4	3.1	2	1.5	0.95	0.55	1.71		33	0.57	4.6	1.37	0.89

Table G1-41. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Iron	mg/kg	dw	36	2,510	24,900	10,031	10,145	5,218	870	0.57	0.50	0				
Lead	mg/kg	dw	36	2.9	532	50.3	20.2	94.9	15.8	4.15	19.7	0				
Magnesium	mg/kg	dw	36	2,640	27,800	10,626	10,095	5,502	917	0.92	1.39	0				
Manganese	mg/kg	dw	36	92.4	1,610	363	322	272	45.3	3.03	12.5	0				
Methylmercury	µg/kg	dw	26	0.05	9.01	2.82	2.07	2.64	0.52	0.97	0.03	2	0.03	0.03	0.03	0.03
Nickel	mg/kg	dw	36	3.3	79.1	19.1	13.5	16.6	2.77	2.30	5.82	0				
Potassium	mg/kg	dw	36	267	2,400	861	803	438	72.9	1.26	2.94	0				
Selenium	mg/kg	dw	23	0.39	1.7	0.82	0.74	0.37	0.08	1.04	0.42	13	0.3	1.4	0.75	0.5
Silver	mg/kg	dw	2	0.13	0.15	0.14	0.14	0.01	0.01			34	0.08	1.10	0.26	0.13
Sodium	mg/kg	dw	36	390	18,600	6,169	5,890	5,032	839	0.78	-0.18	0				
Thallium	mg/kg	dw	6	0.61	1.9	1.13	0.94	0.50	0.21	0.85	-0.96	30	0.42	1.6	0.75	0.64
Total Mercury	mg/kg	dw	57	0.01	68.6	6.58	0.58	14.4	1.90	2.95	8.52	1	5.0E-03	5.0E-03	5.0E-03	5.0E-03
Vanadium	mg/kg	dw	36	2.3	28.3	10.7	10.1	6.25	1.04	1.18	1.66	0				
Zinc	mg/kg	dw	36	14.2	138	51.4	49.8	26.1	4.34	1.22	2.37	0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									12	8.1	19	12.8	12.5
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									12	8.1	19	12.8	12.5
1,1,2-Trichloroethane	µg/kg	dw	0									12	8.1	19	12.8	12.5
1,1-Dichloroethane	µg/kg	dw	0									12	8.1	19	12.8	12.5
1,1-Dichloroethene	µg/kg	dw	0									12	8.1	19	12.8	12.5
1,2-Dichloroethane	µg/kg	dw	0									12	8.1	19	12.8	12.5
1,2-Dichloroethene (Total)	µg/kg	dw	0									5	16	19	17.2	17
1,2-Dichloropropane	µg/kg	dw	0									12	8.1	19	12.8	12.5
2-Butanone	µg/kg	dw	8	5.3	57	18.7	13.5	17.0	6.03	1.96	4.12	4	17	19	17.5	17
2-Hexanone	µg/kg	dw	2	1.7	11	6.35	6.35	6.58	4.65			10	16	23	17.8	17
4-Methyl-2-pentanone	µg/kg	dw	0									12	16	26	18.4	17
Acetone	µg/kg	dw	7	41	310	111	85	92.7	35.0	2.08	4.77	5	32	81	46.8	35
Benzene	µg/kg	dw	1	5.3	5.3	5.3	5.3					11	8.1	17	12.3	12
Bromodichloromethane	µg/kg	dw	0									12	8.1	19	12.8	12.5
Bromoform	µg/kg	dw	0									12	8.1	19	12.8	12.5
Bromomethane	µg/kg	dw	0									12	8.1	19	12.8	12.5
Carbon disulfide	µg/kg	dw	8	2.1	13	6.71	5.3	4.45	1.57	0.34	-2.07	4	16	19	17.3	17
Carbon Tetrachloride	µg/kg	dw	0									12	8.1	19	12.8	12.5
Chlorobenzene	µg/kg	dw	1	2.8	2.8	2.8	2.8					11	8.1	19	12.9	13
Chloroethane	µg/kg	dw	0									12	8.1	19	12.8	12.5
Chloroform	µg/kg	dw	0									12	8.1	19	12.8	12.5
Chloromethane	µg/kg	dw	0									12	8.1	19	12.8	12.5
cis-1,2-Dichloroethene	µg/kg	dw	0									7	8.1	13	9.71	8.5
cis-1,3-Dichloropropene	µg/kg	dw	0									12	8.1	19	12.8	12.5
Dibromochloromethane	µg/kg	dw	0									12	8.1	19	12.8	12.5
Ethylbenzene	µg/kg	dw	0									12	8.1	19	12.8	12.5
Methylene chloride	µg/kg	dw	7	9.6	12,000	1,756	44	4,517	1,707	2.65	7.00	5	8.5	48	22.3	17
Styrene	µg/kg	dw	0									12	8.1	19	12.8	12.5
Tetrachloroethene	µg/kg	dw	0									12	8.1	19	12.8	12.5
Toluene	µg/kg	dw	0									12	8.1	19	12.8	12.5
trans-1,2-Dichloroethene	µg/kg	dw	0									7	8.1	13	9.71	8.5
trans-1,3-Dichloropropene	µg/kg	dw	0									12	8.1	19	12.8	12.5

Table G1-41. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Trichloroethene	µg/kg	dw	1	4.5	4.5	4.5	4.5					11	8.1	19	12.5	12
Vinyl chloride	µg/kg	dw	0									12	8.1	19	12.8	12.5
meta & para Xylenes	µg/kg	dw	1	3.6	3.6	3.6	3.6					6	8.1	12	9.17	8.45
ortho-Xylene	µg/kg	dw	0									7	8.1	13	9.71	8.5
Xylene (Total)	µg/kg	dw	0									5	16	19	17.2	17
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	1	300	300	300	300					28	380	680	557	560
1,2-Dichlorobenzene	µg/kg	dw	6	60	150	97.5	79.0	37.6	15.4	0.83	-1.62	23	380	680	547	560
1,3-Dichlorobenzene	µg/kg	dw	3	69	89	81.7	87.0	11.0	6.36	-1.67		26	380	680	550	560
1,4-Dichlorobenzene	µg/kg	dw	13	44	590	189	150	151	41.8	1.76	3.55	16	440	630	539	555
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									29	380	680	557	560
2,4,5-Trichlorophenol	µg/kg	dw	0									29	920	1,600	1,347	1,400
2,4,6-Trichlorophenol	µg/kg	dw	0									29	380	680	557	560
2,4-Dichlorophenol	µg/kg	dw	0									29	380	680	557	560
2,4-Dimethylphenol	µg/kg	dw	1	210	210	210	210					28	380	680	554	560
2,4-Dinitrophenol	µg/kg	dw	0									29	920	1,600	1,347	1,400
2,4-Dinitrotoluene	µg/kg	dw	0									29	380	680	557	560
2,6-Dinitrotoluene	µg/kg	dw	0									29	380	680	557	560
2-Chloronaphthalene	µg/kg	dw	0									29	380	680	557	560
2-Chlorophenol	µg/kg	dw	0									29	380	680	557	560
2-Methylphenol	µg/kg	dw	6	82	2,900	767	420	1,055	431	2.34	5.62	23	380	680	543	550
2-Nitroaniline	µg/kg	dw	0									29	38	1,500	290	60
2-Nitrophenol	µg/kg	dw	0									29	380	680	557	560
3,3'-Dichlorobenzidine	µg/kg	dw	0									29	380	680	558	560
3-Nitroaniline	µg/kg	dw	0									29	920	1,600	1,347	1,400
4,6-Dinitro-2-methylphenol	µg/kg	dw	0									29	920	1,600	1,347	1,400
4-Bromophenyl-phenyl ether	µg/kg	dw	0									29	380	680	557	560
4-Chloro-3-methylphenol	µg/kg	dw	0									29	380	680	557	560
4-Chloroaniline	µg/kg	dw	0									29	380	680	557	560
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									29	380	680	557	560
4-Methylphenol	µg/kg	dw	15	44	7,400	1,293	510	2,110	545	2.38	5.18	14	390	680	544	550
4-Nitroaniline	µg/kg	dw	0									29	920	1,600	1,347	1,400
4-Nitrophenol	µg/kg	dw	0									29	920	1,600	1,347	1,400
Bis(2-chloroethoxy)methane	µg/kg	dw	0									29	380	680	557	560
Bis(2-chloroethyl)ether	µg/kg	dw	0									29	38	610	143	60
Bis(2-ethylhexyl)phthalate	µg/kg	dw	19	64	570	229	190	152	34.8	1.15	0.73	10	450	640	542	545
Butylbenzylphthalate	µg/kg	dw	2	58	120	89	89	43.8	31.0			27	390	680	566	560
Carbazole	µg/kg	dw	4	140	420	320	360	128	63.8	-1.39	1.50	25	440	680	570	560
Dibenzofuran	µg/kg	dw	5	58	390	202	180	120	53.7	0.89	2.15	24	440	680	570	565
Diethylphthalate	µg/kg	dw	0									29	380	680	557	560
Dimethylphthalate	µg/kg	dw	0									29	380	680	557	560
Di-n-butylphthalate	µg/kg	dw	0									29	380	680	557	560
Di-n-octylphthalate	µg/kg	dw	0									29	380	680	557	560
Hexachlorobenzene	µg/kg	dw	3	280	2,200	923	290	1,106	638	1.73		2	540	570	555	555
Hexachlorobenzene (GC)	µg/kg	dw	4	19	710	252	140	311	155	1.78	3.36	1	5.7	5.7	5.7	5.7
Hexachlorobenzene (GC/ECD)	µg/kg	dw	15	5	2,000	275	100	506	131	3.21	11.1	9	9	80	17.6	10

Table G1-41. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Hexachlorobenzene (MS)	µg/kg	dw	8	64	14,000	2,757	325	4,953	1,751	2.14	4.39	16	380	680	544	565
Hexachlorobutadiene	µg/kg	dw	1	440	440	440	440					28	380	680	556	560
Hexachlorocyclopentadiene	µg/kg	dw	0									29	380	680	557	560
Hexachloroethane	µg/kg	dw	0									29	380	680	557	560
Isophorone	µg/kg	dw	0									29	380	680	557	560
Nitrobenzene	µg/kg	dw	0									29	380	680	557	560
N-nitroso-di-n-propylamine	µg/kg	dw	0									29	38	610	143	60
N-Nitrosodiphenylamine	µg/kg	dw	0									29	380	680	557	560
Pentachlorophenol	µg/kg	dw	0									28	920	1,600	1,341	1,400
Phenol	µg/kg	dw	8	91	1,700	499	280	541	191	1.92	3.71	21	380	680	540	550
2-Methylnaphthalene	µg/kg	dw	6	60	640	265	160	231	94.3	1.11	-0.39	23	440	680	571	570
Acenaphthene	µg/kg	dw	4	99	500	252	205	175	87.5	1.38	2.04	25	43	610	159	60
Acenaphthylene	µg/kg	dw	3	220	520	347	300	155	89.7	1.23		26	440	680	567	560
Anthracene	µg/kg	dw	9	53	1,700	411	92	552	184	1.92	3.65	20	43	570	156	60
Benzo(a)anthracene	µg/kg	dw	20	61	3,400	544	160	935	209	2.35	4.59	9	43	570	220	60
Benzo(a)pyrene	µg/kg	dw	22	66	2,800	460	155	756	161	2.38	4.62	7	43	570	130	60
Benzo(b)fluoranthene	µg/kg	dw	21	61	4,500	765	220	1,332	291	2.27	3.91	8	440	640	530	520
Benzo(g,h,i)perylene	µg/kg	dw	10	69	830	295	145	298	94.1	1.06	-0.77	19	43	570	109	57
Benzo(k)fluoranthene	µg/kg	dw	17	53	1,400	313	95	433	105	1.88	2.18	12	43	570	138	56
Chrysene	µg/kg	dw	22	63	3,300	521	180	864	184	2.45	5.21	7	440	610	514	500
Dibenz(a,h)anthracene	µg/kg	dw	2	63	260	162	162	139	98.5			27	38	570	129	57
Fluoranthene	µg/kg	dw	23	61	6,800	1,051	310	1,881	392	2.41	4.69	6	43	570	136	48.5
Fluorene	µg/kg	dw	4	140	1,200	545	420	460	230	1.42	2.35	25	43	610	159	60
Indeno(1,2,3-cd)pyrene	µg/kg	dw	11	71	790	292	170	276	83.2	1.11	-0.59	18	43	570	84.1	56
Naphthalene	µg/kg	dw	5	83	650	307	270	218	97.7	1.07	1.21	24	43	610	174	62.5
Phenanthrene	µg/kg	dw	21	100	6,000	800	200	1,484	324	2.74	7.55	8	43	570	239	54.5
Pyrene	µg/kg	dw	23	110	7,800	1,035	300	1,937	404	2.71	6.94	6	440	610	510	490
Pesticides/Polychlorinated Biphenyls																
4,4'-DDD	µg/kg	dw	5	1.5	11	4.96	4.20	3.67	1.64	1.42	2.33	24	3.9	33	8.65	5.65
4,4'-DDE	µg/kg	dw	4	1.2	14	5.80	4.00	5.65	2.82	1.63	2.93	25	4.4	33	8.60	5.7
4,4'-DDT	µg/kg	dw	5	0.77	12	6.71	6.60	4.48	2.01	-0.20	-1.24	24	4.4	33	8.77	5.7
Aldrin	µg/kg	dw	2	1.3	2.8	2.05	2.05	1.06	0.75			27	1.9	17	4.20	2.9
alpha-BHC	µg/kg	dw	0									29	1.9	17	4.11	2.9
alpha-Chlordane	µg/kg	dw	3	1.7	9.3	5	4	3.90	2.25	1.08		25	1.9	17	4.33	2.9
beta-BHC	µg/kg	dw	1	15	15	15	15					28	1.9	17	3.76	2.85
delta-BHC	µg/kg	dw	2	0.92	1.1	1.01	1.01	0.13	0.09			27	1.9	17	4.17	2.8
Dieldrin	µg/kg	dw	2	16	49	32.5	32.5	23.3	16.5			27	4.4	33	8.45	5.7
Endosulfan I	µg/kg	dw	2	2.3	9.5	5.90	5.90	5.09	3.60			27	1.9	17	4.24	2.9
Endosulfan II	µg/kg	dw	8	1.2	11	6.16	5.70	3.79	1.34	-0.05	-1.56	21	3.8	33	9.12	5.7
Endosulfan sulfate	µg/kg	dw	4	2.5	20	9.28	7.30	7.51	3.76	1.42	2.61	25	3.8	33	8.44	5.6
Endrin	µg/kg	dw	1	2.1	2.1	2.1	2.1					28	3.8	33	8.19	5.65
Endrin aldehyde	µg/kg	dw	1	9.1	9.1	9.1	9.1					27	3.8	33	8.33	5.7
Endrin ketone	µg/kg	dw	5	1.4	14	6.76	5.80	4.57	2.04	0.98	2.26	24	4.4	33	8.77	5.7
gamma-BHC (Lindane)	µg/kg	dw	1	0.24	0.24	0.24	0.24					28	1.9	17	4.18	2.9
gamma-Chlordane	µg/kg	dw	5	0.44	20	5.02	1.30	8.41	3.76	2.18	4.80	24	2.2	17	4.45	2.95
Heptachlor	µg/kg	dw	0									29	1.9	17	4.11	2.9

Table G1-41. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Heptachlor epoxide	µg/kg	dw	3	0.23	6.8	3.81	4.4	3.32	1.92	-0.77		25	2.2	17	4.41	3
Methoxychlor	µg/kg	dw	2	32	52	42	42	14.1	10			27	19	170	42.4	29
Toxaphene	µg/kg	dw	0									29	190	1,700	411	290
Aroclor 1016	µg/kg	dw	0									36	16	1,000	105	30
Aroclor 1221	µg/kg	dw	0									36	20	1,000	108	30
Aroclor 1232	µg/kg	dw	0									36	16	1,000	105	30
Aroclor 1242	µg/kg	dw	0									36	16	1,000	105	30
Aroclor 1248	µg/kg	dw	0									36	16	1,000	105	30
Aroclor 1254	µg/kg	dw	16	6	1,000	107	30	243	60.8	3.74	14.4	20	16	1,000	106	30
Aroclor 1260	µg/kg	dw	1	10	10	10	10					35	16	1,000	107	30
Aroclor 1268	µg/kg	dw	11	6	1,000	214	46	335	101	1.67	1.96	25	16	1,000	92.0	30
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	0									29	0.13	1.18	0.46	0.37
Total TCDDs	ng/kg	dw	7	0.66	3.85	2.10	2.41	1.07	0.40	0.29	-0.04	22	0.13	1.18	0.50	0.49
1,2,3,7,8-PeCDD	ng/kg	dw	0									29	0.11	2.32	0.42	0.35
Total PeCDDs	ng/kg	dw	5	1.55	6.25	3.27	3.46	1.92	0.86	1.00	0.85	24	0.11	57.4	2.89	0.35
1,2,3,4,7,8-HxCDD	ng/kg	dw	0									29	0.11	9.23	0.63	0.33
1,2,3,6,7,8-HxCDD	ng/kg	dw	8	0.71	3.15	2.11	2.27	0.84	0.30	-0.52	-0.81	21	0.12	9.13	1.26	0.31
1,2,3,7,8,9-HxCDD	ng/kg	dw	4	1.14	1.76	1.44	1.43	0.32	0.16	0.06	-5.39	25	0.11	8.86	0.77	0.32
Total HxCDDs	ng/kg	dw	17	0.37	25.7	9.76	10.7	8.36	2.03	0.41	-1.04	12	0.13	9.13	1.26	0.34
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	28	0.53	58.4	21.3	11.7	20.6	3.90	0.56	-1.42	1	0.32	0.32	0.32	0.32
Total HpCDDs	ng/kg	dw	25	1.09	115	48.8	30	41.8	8.36	0.40	-1.53	4	0.12	0.59	0.43	0.51
OCDD	ng/kg	dw	24	9.70	566	200	153	173	35.2	0.62	-0.92	5	1.82	4.34	2.90	3.02
2,3,7,8-TCDF	ng/kg	dw	24	0.14	154	38.5	8.82	51.2	10.5	1.11	-0.25	5	0.11	0.73	0.38	0.28
Total TCDFs	ng/kg	dw	24	0.62	574	127	17.7	178	36.4	1.31	0.58	5	0.14	0.73	0.42	0.32
1,2,3,7,8-PeCDF	ng/kg	dw	18	0.71	55.1	16.1	9.46	15.0	3.54	1.09	0.93	11	0.09	0.94	0.28	0.18
2,3,4,7,8-PeCDF	ng/kg	dw	14	0.49	20.1	8.69	9.52	6.53	1.74	0.06	-1.32	15	0.09	3.42	0.62	0.25
Total PeCDFs	ng/kg	dw	23	0.34	129	40.4	16.5	45.0	9.38	0.80	-1.04	6	0.10	0.42	0.24	0.25
1,2,3,4,7,8-HxCDF	ng/kg	dw	23	0.13	88.5	19.1	13.1	22.2	4.64	1.67	3.13	6	0.17	9.06	1.73	0.28
1,2,3,6,7,8-HxCDF	ng/kg	dw	14	0.39	16	7.54	6.47	5.06	1.35	0.32	-0.86	15	0.10	9.06	1.23	0.29
1,2,3,7,8,9-HxCDF	ng/kg	dw	9	0.31	10.7	3.45	1.90	3.89	1.30	1.19	-0.03	20	0.12	11.4	0.93	0.30
2,3,4,6,7,8-HxCDF	ng/kg	dw	10	0.74	3.61	2.02	1.67	0.99	0.31	0.48	-1.23	19	0.11	9.70	0.86	0.29
Total HxCDFs	ng/kg	dw	24	0.13	117	35.9	23.1	38.3	7.81	0.98	-0.22	5	0.28	9.06	2.08	0.35
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	23	0.76	74.2	18.3	14.9	18.5	3.86	1.56	2.66	6	0.10	5.82	1.17	0.31
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	16	0.43	23.5	7.19	4.59	6.76	1.69	1.45	1.22	13	0.13	7.29	1.11	0.37
Total HpCDFs	ng/kg	dw	22	1.99	130	40.5	28.9	37.3	7.95	1.12	0.60	7	0.13	5.82	1.03	0.30
OCDF	ng/kg	dw	24	0.48	412	57.8	25.8	91.5	18.7	2.93	9.74	5	0.23	0.75	0.57	0.73

Table G1-42. Summary Statistics for Lower Ninemile Creek Sediment Samples Collected in 1998 and 2001 by Honeywell/Exponent/BBL (45-75 cm)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Chloride (Measured)	mg/kg	dw	3	14,200	28,700	20,800	19,500	7,337	4,236	0.77		0				
Dry weight	µg/kg	dw	3	0.52	0.65	0.60	0.62	0.07	0.04	-1.36		0				
Particles < 0.0012 mm	%	dw	3	5.6	21.1	11.6	8	8.34	4.82	1.57		0				
Particles < 0.0027 mm	%	dw	3	12.4	32.6	22.1	21.3	10.1	5.84	0.35		0				
Particles < 0.0057 mm	%	dw	3	28.2	54.9	42.4	44.0	13.4	7.75	-0.54		0				
Particles < 0.0079 mm	%	dw	3	45.2	69.2	54.9	50.2	12.7	7.31	1.43		0				
Particles < 0.0108 mm	%	dw	3	57.3	77.3	67.5	67.9	10.0	5.78	-0.18		0				
Particles < 0.0178 mm	%	dw	3	67.8	84.5	77.6	80.4	8.70	5.02	-1.31		0				
Particles < 0.0276 mm	%	dw	3	74.9	88.5	82.8	84.9	7.05	4.07	-1.24		0				
Particles < 0.074 mm (sieve #200)	%	dw	3	83.2	95.7	91.3	94.8	6.97	4.02	-1.70		0				
Particles < 0.105 mm (sieve #140)	%	dw	3	85.8	97.2	93.3	96.9	6.50	3.75	-1.73		0				
Particles < 0.250 mm (sieve #60)	%	dw	3	92.4	99.4	97.0	99.2	3.97	2.29	-1.73		0				
Particles < 0.42 mm (sieve #40)	%	dw	3	94.8	99.7	98.0	99.6	2.80	1.62	-1.73		0				
Particles < 0.84 mm (sieve #20)	%	dw	3	98.5	99.8	99.3	99.8	0.76	0.44	-1.73		0				
Particles < 2.00 mm (sieve #10)	%	dw	3	99.9	100.0	99.9	100.0	0.06	0.03	-1.51		0				
Particles < 4.75 mm (sieve #4)	%	dw	3	100	100	100	100	0	0			0				
Particles < 9.50 mm	%	dw	3	100	100	100	100	0	0			0				
Particles < 12.7 mm (1/2" sieve)	%	dw	3	100	100	100	100	0	0			0				
Particles < 19.0 mm	%	dw	3	100	100	100	100	0	0			0				
Particles < 25.4 mm (1" sieve)	%	dw	3	100	100	100	100	0	0			0				
Particles < 37.5 mm (1 1/2" sieve)	%	dw	3	100	100	100	100	0	0			0				
Particles < 50 mm (2" sieve)	%	dw	3	100	100	100	100	0	0			0				
Particles < 75 mm (3" sieve)	%	dw	3	100	100	100	100	0	0			0				
Particles < 150 mm (6" sieve)	%	dw	3	100	100	100	100	0	0			0				
Particles < 300 mm (12" sieve)	%	dw	3	100	100	100	100	0	0			0				
Percent clay	%	ww	3	8.8	27.6	17.0	14.7	9.63	5.56	1.04		0				
Percent gravel	%	dw	3	0.01	0.12	0.05	0.03	0.06	0.03	1.51		0				
Percent moisture	%	ww	3	47.2	77.7	61.3	58.9	15.4	8.88	0.68		0				
Percent sand	%	ww	3	7.57	19.9	12.0	8.59	6.81	3.93	1.69		0				
Percent silt	%	ww	3	52.4	82.6	70.9	77.8	16.2	9.36	-1.56		0				
Total organic carbon	mg/kg	dw	53	3,100	75,200	20,533	14,000	17,244	2,369	1.68	2.81	0				
Total solids	%	ww	53	47.8	73.7	60.2	61.3	6.25	0.86	-0.04	-0.43	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	34	969	11,100	4,625	4,755	2,224	381	0.59	0.69	0				
Antimony	mg/kg	dw	7	0.25	0.73	0.45	0.36	0.19	0.07	0.56	-1.55	27	0.21	15.9	1.76	0.25
Arsenic	mg/kg	dw	33	0.53	101	10.1	4.4	19.3	3.36	3.75	15.8	1	0.37	0.37	0.37	0.37
Barium	mg/kg	dw	34	15.3	171	64.8	65.9	31.9	5.48	1.23	3.32	0				
Beryllium	mg/kg	dw	31	0.12	1.8	0.41	0.28	0.37	0.07	2.67	7.40	3	0.13	1.5	0.62	0.24
Cadmium	mg/kg	dw	13	0.06	0.86	0.22	0.15	0.22	0.06	2.48	6.02	21	0.04	1.7	0.25	0.04
Calcium	mg/kg	dw	34	26,900	322,000	182,759	193,500	97,608	16,740	-0.23	-1.33	0				
Chromium	mg/kg	dw	34	3	28.9	13.1	10.5	7.20	1.23	0.62	-0.72	0				
Cobalt	mg/kg	dw	34	0.77	21	4.46	3.65	3.58	0.61	3.16	13.7	0				
Copper	mg/kg	dw	34	3.5	71.5	20.8	13.3	16.9	2.89	1.24	1.15	0				
Cyanide	mg/kg	dw	2	1.2	1.9	1.55	1.55	0.495	0.35			32	0.69	4.9	1.15	0.83

Table G1-42. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Iron	mg/kg	dw	34	1,690	36,100	10,841	9,590	6,822	1,170	1.57	4.47	0				
Lead	mg/kg	dw	34	2.7	388	45.8	13.0	84.2	14.4	2.92	8.75	0				
Magnesium	mg/kg	dw	34	1,900	21,100	8,606	7,980	4,278	734	0.93	1.25	0				
Manganese	mg/kg	dw	34	68.4	878	323	260	221	37.9	1.35	1.15	0				
Methylmercury	µg/kg	dw	21	0.04	20.1	4.80	1.89	6.62	1.44	1.45	0.60	5	3.0E-03	0.03	0.02	0.02
Nickel	mg/kg	dw	34	3	67.5	18.7	13.3	15.7	2.70	1.90	3.34	0				
Potassium	mg/kg	dw	34	303	2,020	861	781	407	69.8	0.90	0.76	0				
Selenium	mg/kg	dw	24	0.39	1.8	0.84	0.76	0.36	0.07	1.09	0.75	10	0.29	1.4	0.63	0.38
Silver	mg/kg	dw	1	0.17	0.17	0.17	0.17					33	0.1	1.2	0.21	0.12
Sodium	mg/kg	dw	34	951	20,800	7,134	5,825	4,932	846	1.10	0.60	0				
Thallium	mg/kg	dw	2	0.71	0.73	0.72	0.72	0.01	0.01			32	0.51	1.9	0.71	0.61
Total Mercury	mg/kg	dw	51	0.01	118	5.33	0.28	19.2	2.68	4.98	26.4	2	5.0E-03	5.6E-03	5.3E-03	5.3E-03
Vanadium	mg/kg	dw	34	1.5	32.8	10.9	9.4	7.94	1.36	1.71	2.71	0				
Zinc	mg/kg	dw	34	11.6	90.5	45.2	45	19.6	3.36	0.41	-0.07	0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									9	8.3	20	12.8	11
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									9	8.3	20	12.8	11
1,1,2-Trichloroethane	µg/kg	dw	0									9	8.3	20	12.8	11
1,1-Dichloroethane	µg/kg	dw	0									9	8.3	20	12.8	11
1,1-Dichloroethene	µg/kg	dw	0									9	8.3	20	12.8	11
1,2-Dichloroethane	µg/kg	dw	0									9	8.3	20	12.8	11
1,2-Dichloroethene (Total)	µg/kg	dw	0									3	16	20	17.3	16
1,2-Dichloropropane	µg/kg	dw	0									9	8.3	20	12.8	11
2-Butanone	µg/kg	dw	6	4.3	86	22.1	10.2	31.7	12.9	2.32	5.50	3	16	22	19.3	20
2-Hexanone	µg/kg	dw	1	3.1	3.1	3.1	3.1					8	16	32	20.1	19
4-Methyl-2-pentanone	µg/kg	dw	0									9	16	32	19.9	19
Acetone	µg/kg	dw	4	65	310	149	110	114	57.2	1.39	1.40	5	33	78	55.0	55
Benzene	µg/kg	dw	1	10	10	10	10					8	8.3	16	11.9	10.4
Bromodichloromethane	µg/kg	dw	0									9	8.3	20	12.8	11
Bromoform	µg/kg	dw	0									9	8.3	20	12.8	11
Bromomethane	µg/kg	dw	0									9	8.3	20	12.8	11
Carbon disulfide	µg/kg	dw	6	3.1	23	10.5	6	8.99	3.67	0.92	-1.75	3	16	20	18.3	19
Carbon Tetrachloride	µg/kg	dw	0									9	8.3	20	12.8	11
Chlorobenzene	µg/kg	dw	1	6	6	6	6					8	8.3	16	11.9	10.4
Chloroethane	µg/kg	dw	0									9	8.3	20	12.8	11
Chloroform	µg/kg	dw	0									9	8.3	20	12.8	11
Chloromethane	µg/kg	dw	0									9	8.3	20	12.8	11
cis-1,2-Dichloroethene	µg/kg	dw	0									6	8.3	16	10.6	9.5
cis-1,3-Dichloropropene	µg/kg	dw	0									9	8.3	20	12.8	11
Dibromochloromethane	µg/kg	dw	0									9	8.3	20	12.8	11
Ethylbenzene	µg/kg	dw	0									9	8.3	20	12.8	11
Methylene chloride	µg/kg	dw	4	14	340	104	30.5	158	79.1	1.95	3.83	5	9	51	22.9	11
Styrene	µg/kg	dw	0									9	8.3	20	12.8	11
Tetrachloroethene	µg/kg	dw	0									9	8.3	20	12.8	11
Toluene	µg/kg	dw	0									9	8.3	20	12.8	11

Table G1-42. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
trans-1,2-Dichloroethene	µg/kg	dw	0									6	8.3	16	10.6	9.5
trans-1,3-Dichloropropene	µg/kg	dw	0									9	8.3	20	12.8	11
Trichloroethene	µg/kg	dw	1	4.5	4.5	4.5	4.5					8	8.3	20	12.4	10.4
Vinyl chloride	µg/kg	dw	0									9	8.3	20	12.8	11
meta & para Xylenes	µg/kg	dw	0									6	8.3	16	10.6	9.5
ortho-Xylene	µg/kg	dw	0									6	8.3	16	10.6	9.5
Xylene (Total)	µg/kg	dw	0									3	16	20	17.3	16
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	1	230	230	230	230					27	470	690	551	530
1,2-Dichlorobenzene	µg/kg	dw	5	63	140	98.2	97	32.4	14.5	0.24	-1.93	23	470	650	540	530
1,3-Dichlorobenzene	µg/kg	dw	4	65	120	86.5	80.5	25.0	12.5	0.99	-0.32	24	470	690	548	530
1,4-Dichlorobenzene	µg/kg	dw	10	60	460	173	125	121	38.4	1.63	2.91	18	470	650	535	525
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									28	470	690	550	530
2,4,5-Trichlorophenol	µg/kg	dw	0									28	1100	1700	1325	1300
2,4,6-Trichlorophenol	µg/kg	dw	0									28	470	690	550	530
2,4-Dichlorophenol	µg/kg	dw	0									28	470	690	550	530
2,4-Dimethylphenol	µg/kg	dw	2	79	94	86.5	86.5	10.6	7.5			26	470	650	540	525
2,4-Dinitrophenol	µg/kg	dw	0									28	1100	1700	1325	1300
2,4-Dinitrotoluene	µg/kg	dw	0									28	470	690	550	530
2,6-Dinitrotoluene	µg/kg	dw	0									28	470	690	550	530
2-Chloronaphthalene	µg/kg	dw	0									28	470	690	550	530
2-Chlorophenol	µg/kg	dw	0									28	470	690	550	530
2-Methylphenol	µg/kg	dw	7	100	790	311	250	258	97.3	1.33	0.89	21	470	650	539	520
2-Nitroaniline	µg/kg	dw	0									28	46	1,600	199	54.5
2-Nitrophenol	µg/kg	dw	0									28	470	690	550	530
3,3'-Dichlorobenzidine	µg/kg	dw	0									28	470	690	551	530
3-Nitroaniline	µg/kg	dw	0									28	1,100	1,700	1,325	1,300
4,6-Dinitro-2-methylphenol	µg/kg	dw	0									28	1,100	1,700	1,325	1,300
4-Bromophenyl-phenyl ether	µg/kg	dw	0									28	470	690	550	530
4-Chloro-3-methylphenol	µg/kg	dw	0									28	470	690	550	530
4-Chloroaniline	µg/kg	dw	0									28	470	690	550	530
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									28	470	690	550	530
4-Methylphenol	µg/kg	dw	15	70	2,800	860	280	959	248	0.99	-0.34	13	490	650	540	520
4-Nitroaniline	µg/kg	dw	0									28	1,100	1,700	1,325	1,300
4-Nitrophenol	µg/kg	dw	0									28	1,100	1,700	1,325	1,300
Bis(2-chloroethoxy)methane	µg/kg	dw	0									28	470	690	550	530
Bis(2-chloroethyl)ether	µg/kg	dw	0									28	46	650	109	54.5
Bis(2-ethylhexyl)phthalate	µg/kg	dw	18	58	1,100	236	185	247	58.1	2.79	9.22	10	470	590	520	520
Butylbenzylphthalate	µg/kg	dw	0									28	470	690	550	530
Carbazole	µg/kg	dw	3	310	500	380	330	104	60.3	1.66		25	470	690	556	550
Dibenzofuran	µg/kg	dw	4	93	300	186	175	85.5	42.8	0.73	1.74	24	470	690	554	540
Diethylphthalate	µg/kg	dw	0									28	470	690	550	530
Dimethylphthalate	µg/kg	dw	0									28	470	690	550	530
Di-n-butylphthalate	µg/kg	dw	0									28	470	690	550	530
Di-n-octylphthalate	µg/kg	dw	0									28	470	690	550	530

Table G1-42. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	DETECTS Minimum Detection	DETECTS Maximum Detection	DETECTS Mean	DETECTS Median	DETECTS Standard Deviation	DETECTS Standard Error	DETECTS Skewness	DETECTS Kurtosis	NON-DETECTS N	NON-DETECTS Minimum Detection Limit	NON-DETECTS Maximum Detection Limit	NON-DETECTS Mean	NON-DETECTS Median
Hexachlorobenzene	µg/kg	dw	1	1,700	1,700	1,700	1,700					2	530	650	590	590
Hexachlorobenzene (GC)	µg/kg	dw	1	680	680	680	680					2	5.3	6.5	5.9	5.9
Hexachlorobenzene (GC/ECD)	µg/kg	dw	14	4	10,000	780	60	2,655	709	3.74	14.0	11	10	10	10	10
Hexachlorobenzene (MS)	µg/kg	dw	8	54	42,000	5,433	220	14,776	5,224	2.83	8.00	17	470	690	544	520
Hexachlorobutadiene	µg/kg	dw	4	77	210	124	105	58.8	29.4	1.66	3.06	24	470	690	550	530
Hexachlorocyclopentadiene	µg/kg	dw	0									28	470	690	550	530
Hexachloroethane	µg/kg	dw	0									28	470	690	550	530
Isophorone	µg/kg	dw	0									28	470	690	550	530
Nitrobenzene	µg/kg	dw	0									28	470	690	550	530
N-nitroso-di-n-propylamine	µg/kg	dw	0									28	46	650	109	54.5
N-Nitrosodiphenylamine	µg/kg	dw	0									28	470	690	550	530
Pentachlorophenol	µg/kg	dw	0									26	1,100	1,700	1,335	1,300
Phenol	µg/kg	dw	7	93	940	505	450	344	130	0.24	-1.91	21	470	690	554	550
2-Methylnaphthalene	µg/kg	dw	4	71	150	106	101	36.2	18.1	0.48	-2.54	24	470	690	554	540
Acenaphthene	µg/kg	dw	4	130	420	260	245	120	60.1	0.72	1.5	24	46	650	119	55
Acenaphthylene	µg/kg	dw	3	51	130	85.3	75.0	40.5	23.4	1.07		25	470	690	556	550
Anthracene	µg/kg	dw	4	140	1,000	565	560	351	176	0.09	1.49	24	46	650	119	55
Benzo(a)anthracene	µg/kg	dw	14	81	1,900	459	130	647	173	1.60	0.92	14	46	650	131	54.5
Benzo(a)pyrene	µg/kg	dw	15	76	1,600	374	120	526	136	1.76	1.57	13	46	650	137	54
Benzo(b)fluoranthene	µg/kg	dw	15	57	2,500	600	180	844	218	1.73	1.40	13	470	690	558	530
Benzo(g,h,i)perylene	µg/kg	dw	7	57	480	204	97	179	67.6	0.76	-1.44	21	46	650	129	56
Benzo(k)fluoranthene	µg/kg	dw	13	54	670	214	88	249	69.0	1.39	0.02	15	46	650	127	55
Chrysene	µg/kg	dw	15	96	1,700	433	140	577	149	1.65	1.03	13	470	690	547	530
Dibenz(a,h)anthracene	µg/kg	dw	1	140	140	140	140					27	46	650	112	55
Fluoranthene	µg/kg	dw	21	48	4,200	713	230	1,218	266	2.22	3.63	7	46	530	121	55
Fluorene	µg/kg	dw	4	120	470	320	345	147	73.6	-0.94	1.50	24	46	650	119	55
Indeno(1,2,3-cd)pyrene	µg/kg	dw	8	53	480	189	85	172	60.8	0.94	-0.98	20	46	650	109	55.5
Naphthalene	µg/kg	dw	5	74	370	182	170	120	53.5	1.10	0.99	23	46	650	124	55
Phenanthrene	µg/kg	dw	17	61	3,900	685	150	1,173	285	2.07	3.11	11	46	650	150	52
Pyrene	µg/kg	dw	21	50	3,800	647	190	1,099	240	2.23	3.77	7	470	590	536	530
Pesticides/Polychlorinated Biphenyls																
4,4'-DDD	µg/kg	dw	1	2.7	2.7	2.7	2.7					27	4.7	31	6.44	5.3
4,4'-DDE	µg/kg	dw	3	0.1	5.9	2.97	2.9	2.90	1.67	0.10		25	4.7	31	6.60	5.5
4,4'-DDT	µg/kg	dw	2	3.9	6	4.95	4.95	1.48	1.05			26	4.7	31	6.57	5.55
Aldrin	µg/kg	dw	4	0.56	3	2.04	2.3	1.04	0.52	-1.35	2.42	23	2.3	16	3.37	2.7
alpha-BHC	µg/kg	dw	1	8.7E-02	8.7E-02	8.7E-02	8.7E-02					27	2.3	16	3.28	2.7
alpha-Chlordane	µg/kg	dw	6	2.2	11	4.98	4	3.18	1.30	1.73	3.23	21	2.3	16	3.41	2.7
beta-BHC	µg/kg	dw	3	1.2	5.3	2.67	1.5	2.29	1.32	1.70		24	2.3	16	3.35	2.7
delta-BHC	µg/kg	dw	4	0.26	0.89	0.54	0.51	0.32	0.16	0.21	-4.76	24	2.3	16	3.35	2.75
Dieldrin	µg/kg	dw	1	17	17	17	17					25	4.7	31	6.57	5.5
Endosulfan I	µg/kg	dw	2	4.3	9.5	6.9	6.9	3.68	2.6			26	2.3	16	3.29	2.7
Endosulfan II	µg/kg	dw	6	1.1	13	6.02	3.65	5.51	2.25	0.82	-1.87	22	4.7	31	6.82	5.6
Endosulfan sulfate	µg/kg	dw	5	2	9.1	4.32	2.4	3.06	1.37	1.24	0.27	23	4.7	31	6.66	5.5
Endrin	µg/kg	dw	2	0.74	2.6	1.67	1.67	1.32	0.93			26	4.8	31	6.51	5.4
Endrin aldehyde	µg/kg	dw	2	15	24	19.5	19.5	6.36	4.50			26	4.7	31	6.52	5.4

Table G1-42. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	DETECTS Minimum Detection	DETECTS Maximum Detection	DETECTS Mean	DETECTS Median	DETECTS Standard Deviation	DETECTS Standard Error	DETECTS Skewness	DETECTS Kurtosis	NON-DETECTS N	NON-DETECTS Minimum Detection Limit	NON-DETECTS Maximum Detection Limit	NON-DETECTS Mean	NON-DETECTS Median
Endrin ketone	µg/kg	dw	1	5.2	5.2	5.2	5.2					27	4.7	31	6.51	5.5
gamma-BHC (Lindane)	µg/kg	dw	0									27	2.3	16	3.28	2.7
gamma-Chlordane	µg/kg	dw	5	0.31	24	6.74	2.2	9.86	4.41	2.01	4.10	23	2.3	16	3.36	2.7
Heptachlor	µg/kg	dw	0									28	2.3	16	3.25	2.7
Heptachlor epoxide	µg/kg	dw	8	0.36	13	2.79	1.29	4.26	1.51	2.51	6.52	20	2.3	16	3.44	2.7
Methoxychlor	µg/kg	dw	2	1.8	14	7.9	7.9	8.63	6.1			25	23	160	33.12	27
Toxaphene	µg/kg	dw	0									28	230	1,600	325	270
Aroclor 1016	µg/kg	dw	0									34	16	13,000	426	30
Aroclor 1221	µg/kg	dw	0									34	20	13,000	428	30
Aroclor 1232	µg/kg	dw	0									34	16	13,000	426	30
Aroclor 1242	µg/kg	dw	0									34	16	13,000	426	30
Aroclor 1248	µg/kg	dw	0									34	16	13,000	426	30
Aroclor 1254	µg/kg	dw	12	5	2,000	204	35	567	164	3.45	11.9	22	16	13,000	619	30
Aroclor 1260	µg/kg	dw	0									34	16	13,000	426	30
Aroclor 1268	µg/kg	dw	7	7	200	62.4	30	67.7	25.6	1.76	2.95	27	16	13,000	516	30
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	1	1.57	1.57	1.57	1.57					27	0.12	0.95	0.37	0.38
Total TCDDs	ng/kg	dw	9	0.96	4.08	2.31	2.55	0.98	0.33	0.35	-0.24	19	0.12	0.95	0.43	0.40
1,2,3,7,8-PeCDD	ng/kg	dw	0									28	0.08	1.16	0.36	0.32
Total PeCDDs	ng/kg	dw	3	0.91	2.76	1.74	1.56	0.94	0.54	0.85		25	0.08	1.58	0.43	0.31
1,2,3,4,7,8-HxCDD	ng/kg	dw	0									28	0.07	0.81	0.32	0.27
1,2,3,6,7,8-HxCDD	ng/kg	dw	8	0.42	3.79	2.04	1.87	1.18	0.42	0.16	-1.25	20	0.07	1.77	0.45	0.28
1,2,3,7,8,9-HxCDD	ng/kg	dw	4	0.44	1.27	0.90	0.95	0.41	0.21	-0.26	-4.45	24	0.07	1.20	0.37	0.27
Total HxCDDs	ng/kg	dw	17	0.62	24.3	8.60	4.79	8.14	1.98	0.88	-0.78	11	0.07	0.93	0.41	0.30
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	20	0.311	77.8	22.3	13.9	22.0	4.91	1.13	0.62	8	0.30	1.10	0.66	0.60
Total HpCDDs	ng/kg	dw	19	0.04	166	49.8	30.2	48.5	11.1	1.15	0.52	9	0.26	1.10	0.61	0.59
OCDD	ng/kg	dw	20	8.73	743	191	114	210	46.9	1.58	1.92	8	0.82	4.38	1.65	1.29
2,3,7,8-TCDF	ng/kg	dw	18	1.02	309	49.2	13.2	77.8	18.3	2.52	7.13	10	0.07	0.79	0.37	0.39
Total TCDFs	ng/kg	dw	18	1.54	1,180	171	43.4	291	68.5	2.79	8.77	10	0.08	0.79	0.38	0.39
1,2,3,7,8-PeCDF	ng/kg	dw	15	0.84	84.1	23.1	5.81	31.0	8.01	1.32	0.11	13	0.06	0.78	0.30	0.23
2,3,4,7,8-PeCDF	ng/kg	dw	16	0.43	38	7.84	2.5	10.7	2.68	1.86	3.18	12	0.06	1.20	0.34	0.24
Total PeCDFs	ng/kg	dw	19	0.34	281	56.3	12.4	87.3	20.0	1.71	1.72	9	0.06	3.75	0.66	0.23
1,2,3,4,7,8-HxCDF	ng/kg	dw	17	0.87	308	34.6	11.3	74.9	18.2	3.45	12.6	11	0.05	1.80	0.39	0.27
1,2,3,6,7,8-HxCDF	ng/kg	dw	14	0.45	71.5	9.87	3.57	18.7	4.99	3.20	10.8	14	0.06	0.55	0.28	0.25
1,2,3,7,8,9-HxCDF	ng/kg	dw	9	0.17	29	7.45	2.32	9.89	3.30	1.61	1.93	19	0.07	0.62	0.29	0.24
2,3,4,6,7,8-HxCDF	ng/kg	dw	10	0.45	11.5	2.57	1.34	3.33	1.05	2.54	7.00	18	0.06	1.20	0.32	0.22
Total HxCDFs	ng/kg	dw	18	1.00	395	54.4	18.3	96.6	22.8	2.97	9.61	10	0.06	3.95	0.63	0.25
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	20	1.27	316	27.5	12	68.9	15.4	4.26	18.6	8	0.08	0.74	0.32	0.24
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	12	0.51	105	13.4	4.8	29.2	8.43	3.32	11.3	16	0.10	0.93	0.45	0.36
Total HpCDFs	ng/kg	dw	20	0.85	603	56.4	29.7	131	29.4	4.18	18.2	8	0.08	0.74	0.32	0.24
OCDF	ng/kg	dw	17	1.45	2,310	171	27.9	553	134	4.09	16.8	11	0.11	7.91	1.81	0.92

Table G1-43. Summary Statistics for Lower Ninemile Creek Sediment Samples Collected in 1998 and 2001 by Honeywell/Exponent/BBL (75-105 cm)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Chloride (Measured)	mg/kg	dw	1	24,200	24,200	24,200	24,200					0				
Dry weight	µg/kg	dw	1	0.65	0.65	0.65	0.65					0				
Particles < 0.0012 mm	%	dw	1	25.2	25.2	25.2	25.2					0				
Particles < 0.0027 mm	%	dw	1	35.4	35.4	35.4	35.4					0				
Particles < 0.0057 mm	%	dw	1	46.7	46.7	46.7	46.7					0				
Particles < 0.0079 mm	%	dw	1	54.6	54.6	54.6	54.6					0				
Particles < 0.0108 mm	%	dw	1	60.2	60.2	60.2	60.2					0				
Particles < 0.0178 mm	%	dw	1	70.4	70.4	70.4	70.4					0				
Particles < 0.0276 mm	%	dw	1	73.7	73.7	73.7	73.7					0				
Particles < 0.074 mm (sieve #200)	%	dw	1	79.5	79.5	79.5	79.5					0				
Particles < 0.105 mm (sieve #140)	%	dw	1	82.4	82.4	82.4	82.4					0				
Particles < 0.250 mm (sieve #60)	%	dw	1	90.4	90.4	90.4	90.4					0				
Particles < 0.42 mm (sieve #40)	%	dw	1	93.5	93.5	93.5	93.5					0				
Particles < 0.84 mm (sieve #20)	%	dw	1	97.6	97.6	97.6	97.6					0				
Particles < 2.00 mm (sieve #10)	%	dw	1	99.8	99.8	99.8	99.8					0				
Particles < 4.75 mm (sieve #4)	%	dw	1	100	100	100	100					0				
Particles < 9.50 mm	%	dw	1	100	100	100	100					0				
Particles < 12.7 mm (1/2" sieve)	%	dw	1	100	100	100	100					0				
Particles < 19.0 mm	%	dw	1	100	100	100	100					0				
Particles < 25.4 mm (1" sieve)	%	dw	1	100	100	100	100					0				
Particles < 37.5 mm (1 1/2" sieve)	%	dw	1	100	100	100	100					0				
Particles < 50 mm (2" sieve)	%	dw	1	100	100	100	100					0				
Particles < 75 mm (3" sieve)	%	dw	1	100	100	100	100					0				
Particles < 150 mm (6" sieve)	%	dw	1	100	100	100	100					0				
Particles < 300 mm (12" sieve)	%	dw	1	100	100	100	100					0				
Percent clay	%	ww	1	31.0	31.0	31.0	31.0					0				
Percent gravel	%	dw	1	0.21	0.21	0.21	0.21					0				
Percent moisture	%	ww	1	49.5	49.5	49.5	49.5					0				
Percent sand	%	ww	1	22.7	22.7	22.7	22.7					0				
Percent silt	%	ww	1	46.2	46.2	46.2	46.2					0				
Total organic carbon	mg/kg	dw	38	4,720	129,000	26,149	16,200	26,796	4,347	2.12	5.13	0				
Total solids	%	ww	38	39.6	70.5	59.5	59.7	6.56	1.06	-0.71	0.75	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	22	1,450	8,750	4,216	4,460	2,211	471	0.38	-0.97	0				
Antimony	mg/kg	dw	6	0.27	0.69	0.41	0.32	0.17	0.07	1.18	-0.30	16	0.21	13.7	1.09	0.25
Arsenic	mg/kg	dw	22	0.59	101	14.6	5.1	25.5	5.44	2.56	6.47	0				
Barium	mg/kg	dw	22	26.3	120	68.0	71.0	22.5	4.80	0.07	0.19	0				
Beryllium	mg/kg	dw	21	0.14	1.4	0.40	0.28	0.33	0.07	2.02	4.04	1	0.2	0.2	0.2	0.2
Cadmium	mg/kg	dw	10	0.04	0.58	0.22	0.13	0.20	0.06	1.15	-0.24	12	0.04	1.5	0.16	0.04
Calcium	mg/kg	dw	22	47,900	358,000	212,623	235,500	95,211	20,299	-0.27	-1.39	0				
Chromium	mg/kg	dw	22	3.7	29.4	12.9	12.2	7.88	1.68	0.41	-1.08	0				
Cobalt	mg/kg	dw	22	0.94	26.2	4.99	4.00	5.32	1.13	3.25	12.7	0				
Copper	mg/kg	dw	22	2.9	68.2	21.0	15.6	18.3	3.90	1.32	1.40	0				
Cyanide	mg/kg	dw	1	0.90	0.90	0.90	0.90					21	0.71	4.2	1.006	0.83

Table G1-43. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Iron	mg/kg	dw	22	2,660	43,500	11,086	10,300	9,180	1,957	2.21	6.80	0				
Lead	mg/kg	dw	22	3.4	374	50.9	13.9	93.7	20.0	2.65	6.91	0				
Magnesium	mg/kg	dw	22	2,110	17,800	8,335	7,200	4,703	1,003	0.65	-0.66	0				
Manganese	mg/kg	dw	22	94.9	738	262	230	167	35.7	1.51	2.15	0				
Methylmercury	µg/kg	dw	16	0.02	14.9	2.94	1.62	4.14	1.04	2.03	4.07	4	3.0E-03	2.7E-02	2.0E-02	2.4E-02
Nickel	mg/kg	dw	22	3.5	88.6	22.2	14.1	23.4	4.99	2.04	3.91	0				
Potassium	mg/kg	dw	22	281	1,630	801	659	403	85.9	0.80	-0.68	0				
Selenium	mg/kg	dw	12	0.43	2.80	0.94	0.61	0.68	0.20	2.12	5.05	10	0.27	1.2	0.43	0.35
Silver	mg/kg	dw	1	0.13	0.13	0.13	0.13					21	0.1	1	0.17	0.12
Sodium	mg/kg	dw	22	1,600	17,800	8,016	6,560	5,020	1,070	0.65	-0.64	0				
Thallium	mg/kg	dw	5	0.67	0.99	0.83	0.83	0.12	0.05	0.13	0.89	17	0.53	1.6	0.68	0.62
Total Mercury	mg/kg	dw	36	0.01	28.3	3.09	0.27	7.29	1.22	2.61	5.86	2	5.2E-03	6.0E-03	5.6E-03	5.6E-03
Vanadium	mg/kg	dw	22	2.3	28.3	9.30	9.10	6.40	1.36	1.40	2.46	0				
Zinc	mg/kg	dw	22	13.4	106	42.8	38.1	24.2	5.17	0.86	0.50	0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									7	7.5	17	9.8	9.1
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									7	7.5	17	9.8	9.1
1,1,2-Trichloroethane	µg/kg	dw	0									7	7.5	17	9.8	9.1
1,1-Dichloroethane	µg/kg	dw	0									7	7.5	17	9.8	9.1
1,1-Dichloroethene	µg/kg	dw	0									7	7.5	17	9.8	9.1
1,2-Dichloroethane	µg/kg	dw	0									7	7.5	17	9.8	9.1
1,2-Dichloroethene (Total)	µg/kg	dw	0									1	17	17	17	17
1,2-Dichloropropane	µg/kg	dw	0									7	7.5	17	9.8	9.1
2-Butanone	µg/kg	dw	4	2.3	59	27.1	23.5	23.7	11.8	0.85	1.52	3	15	19	17	17
2-Hexanone	µg/kg	dw	0									7	15	19	17	17
4-Methyl-2-pentanone	µg/kg	dw	0									7	15	19	17	17
Acetone	µg/kg	dw	2	69	230	150	150	114	80.5			5	33	94	58.6	39
Benzene	µg/kg	dw	0									7	7.5	17	9.8	9.1
Bromodichloromethane	µg/kg	dw	0									7	7.5	17	9.8	9.1
Bromoform	µg/kg	dw	0									7	7.5	17	9.8	9.1
Bromomethane	µg/kg	dw	0									7	7.5	17	9.8	9.1
Carbon disulfide	µg/kg	dw	7	3.7	44	13.7	5.2	16.2	6.13	1.52	0.95	0				
Carbon Tetrachloride	µg/kg	dw	0									7	7.5	17	9.8	9.1
Chlorobenzene	µg/kg	dw	0									7	7.5	17	9.8	9.1
Chloroethane	µg/kg	dw	0									7	7.5	17	9.8	9.1
Chloroform	µg/kg	dw	0									7	7.5	17	9.8	9.1
Chloromethane	µg/kg	dw	0									7	7.5	17	9.8	9.1
cis-1,2-Dichloroethene	µg/kg	dw	0									6	7.5	9.7	8.6	8.65
cis-1,3-Dichloropropene	µg/kg	dw	0									7	7.5	17	9.8	9.1
Dibromochloromethane	µg/kg	dw	0									7	7.5	17	9.8	9.1
Ethylbenzene	µg/kg	dw	0									7	7.5	17	9.8	9.1
Methylene chloride	µg/kg	dw	4	12	500	151	46	233	117	1.97	3.90	3	7.5	55	24.1	9.7
Styrene	µg/kg	dw	0									7	7.5	17	9.8	9.1
Tetrachloroethene	µg/kg	dw	0									7	7.5	17	9.8	9.1
Toluene	µg/kg	dw	0									7	7.5	17	9.8	9.1

Table G1-43. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	DETECTS Minimum Detection	DETECTS Maximum Detection	DETECTS Mean	DETECTS Median	DETECTS Standard Deviation	DETECTS Standard Error	DETECTS Skewness	DETECTS Kurtosis	NON-DETECTS N	NON-DETECTS Minimum Detection Limit	NON-DETECTS Maximum Detection Limit	NON-DETECTS Mean	NON-DETECTS Median
trans-1,2-Dichloroethene	µg/kg	dw	0									6	7.5	9.7	8.6	8.65
trans-1,3-Dichloropropene	µg/kg	dw	0									7	7.5	17	9.8	9.1
Trichloroethene	µg/kg	dw	0									7	7.5	17	9.8	9.1
Vinyl chloride	µg/kg	dw	0									7	7.5	17	9.8	9.1
meta & para Xylenes	µg/kg	dw	0									6	7.5	9.7	8.6	8.65
ortho-Xylene	µg/kg	dw	0									6	7.5	9.7	8.6	8.65
Xylene (Total)	µg/kg	dw	0									1	17	17	17	17
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	2	59	110	84.5	84.5	36.1	25.5			14	480	670	554	550
1,2-Dichlorobenzene	µg/kg	dw	3	75	190	121	97	61.0	35.2	1.48		13	480	630	535	540
1,3-Dichlorobenzene	µg/kg	dw	3	95	150	115	100	30.4	17.6	1.68		13	480	670	542	550
1,4-Dichlorobenzene	µg/kg	dw	7	73	440	178	140	131	49.6	1.67	2.50	9	480	630	543	550
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									16	480	670	552	550
2,4,5-Trichlorophenol	µg/kg	dw	0									16	1,200	1,600	1,338	1,300
2,4,6-Trichlorophenol	µg/kg	dw	0									16	480	670	552	550
2,4-Dichlorophenol	µg/kg	dw	0									16	480	670	552	550
2,4-Dimethylphenol	µg/kg	dw	3	51	180	99.3	67.0	70.3	40.6	1.63		13	480	630	551	550
2,4-Dinitrophenol	µg/kg	dw	0									16	1,200	1,600	1,338	1,300
2,4-Dinitrotoluene	µg/kg	dw	0									16	480	670	552	550
2,6-Dinitrotoluene	µg/kg	dw	0									16	480	670	552	550
2-Chloronaphthalene	µg/kg	dw	0									16	480	670	552	550
2-Chlorophenol	µg/kg	dw	0									16	480	670	552	550
2-Methylphenol	µg/kg	dw	5	75	1,200	485	470	452	202	1.12	1.18	11	480	630	555	550
2-Nitroaniline	µg/kg	dw	0									16	48	1,400	139	54.5
2-Nitrophenol	µg/kg	dw	0									16	480	670	552	550
3,3'-Dichlorobenzidine	µg/kg	dw	0									16	480	670	553	555
3-Nitroaniline	µg/kg	dw	0									16	1,200	1,600	1,338	1,300
4,6-Dinitro-2-methylphenol	µg/kg	dw	0									16	1,200	1,600	1,338	1,300
4-Bromophenyl-phenyl ether	µg/kg	dw	0									16	480	670	552	550
4-Chloro-3-methylphenol	µg/kg	dw	0									16	480	670	552	550
4-Chloroaniline	µg/kg	dw	0									16	480	670	552	550
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									16	480	670	552	550
4-Methylphenol	µg/kg	dw	7	140	3,700	1,181	680	1,288	487	1.44	1.93	9	480	630	556	550
4-Nitroaniline	µg/kg	dw	0									16	1,200	1,600	1,338	1,300
4-Nitrophenol	µg/kg	dw	0									16	1,200	1,600	1,338	1,300
Bis(2-chloroethoxy)methane	µg/kg	dw	0									16	480	670	552	550
Bis(2-chloroethyl)ether	µg/kg	dw	0									16	48	560	86.3	54.5
Bis(2-ethylhexyl)phthalate	µg/kg	dw	9	54	620	219	190	165	55.1	2.04	5.04	7	480	630	563	560
Butylbenzylphthalate	µg/kg	dw	0									16	480	670	552	550
Carbazole	µg/kg	dw	2	77	370	224	224	207	147			14	480	670	555	550
Dibenzofuran	µg/kg	dw	3	77	220	156	170	72.6	41.9	-0.85		13	480	670	559	550
Diethylphthalate	µg/kg	dw	0									16	480	670	552	550
Dimethylphthalate	µg/kg	dw	0									16	480	670	552	550
Di-n-butylphthalate	µg/kg	dw	0									16	480	670	552	550
Di-n-octylphthalate	µg/kg	dw	0									16	480	670	552	550

Table G1-43. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	DETECTS Minimum Detection	DETECTS Maximum Detection	DETECTS Mean	DETECTS Median	DETECTS Standard Deviation	DETECTS Standard Error	DETECTS Skewness	DETECTS Kurtosis	NON-DETECTS N	NON-DETECTS Minimum Detection Limit	NON-DETECTS Maximum Detection Limit	NON-DETECTS Mean	NON-DETECTS Median
Hexachlorobenzene	µg/kg	dw	0									1	560	560	560	560
Hexachlorobenzene (GC)	µg/kg	dw	0									1	5.6	5.6	5.6	5.6
Hexachlorobenzene (GC/ECD)	µg/kg	dw	8	9	1,000	324	150	369	131	1.05	-0.19	7	10	10	10	10
Hexachlorobenzene (MS)	µg/kg	dw	7	50	1,100	479	340	448	169	0.45	-1.95	8	480	670	546	545
Hexachlorobutadiene	µg/kg	dw	0									16	480	670	552	550
Hexachlorocyclopentadiene	µg/kg	dw	0									16	480	670	552	550
Hexachloroethane	µg/kg	dw	0									16	480	670	552	550
Isophorone	µg/kg	dw	0									16	480	670	552	550
Nitrobenzene	µg/kg	dw	0									16	480	670	552	550
N-nitroso-di-n-propylamine	µg/kg	dw	0									16	48	560	86.3	54.5
N-Nitrosodiphenylamine	µg/kg	dw	0									16	480	670	552	550
Pentachlorophenol	µg/kg	dw	0									16	1,200	1,600	1,338	1,300
Phenol	µg/kg	dw	5	68	700	401	500	305	136	-0.37	-3.06	11	480	630	555	550
2-Methylnaphthalene	µg/kg	dw	3	56	950	362	80	509	294	1.73		13	480	670	559	550
Acenaphthene	µg/kg	dw	2	110	210	160	160	70.7	50			14	48	560	91	54.5
Acenaphthylene	µg/kg	dw	1	91	91	91	91					15	480	670	550	550
Anthracene	µg/kg	dw	4	84	420	233	214	173	86.4	0.18	-4.96	12	48	560	96	53.5
Benzo(a)anthracene	µg/kg	dw	9	62	1,200	279	100	385	128	2.16	4.43	7	51	560	129	57
Benzo(a)pyrene	µg/kg	dw	9	60	1,200	251	79	377	126	2.49	6.32	7	51	560	128	55
Benzo(b)fluoranthene	µg/kg	dw	10	67	2,100	391	145	624	197	2.79	8.04	6	510	670	567	555
Benzo(g,h,i)perylene	µg/kg	dw	2	190	470	330	330	198	140			14	48	560	91	54.5
Benzo(k)fluoranthene	µg/kg	dw	4	57	720	287	185	303	152	1.50	1.99	12	48	560	97.2	54.5
Chrysene	µg/kg	dw	10	67	1,400	285	109	419	132	2.56	6.73	6	510	570	547	550
Dibenz(a,h)anthracene	µg/kg	dw	1	59	59	59	59					15	48	560	88.8	55
Fluoranthene	µg/kg	dw	11	140	3,300	632	240	979	295	2.51	6.18	5	51	560	155.2	55
Fluorene	µg/kg	dw	4	56	310	141	98.5	116	58.0	1.70	2.90	12	48	560	96.5	54.5
Indeno(1,2,3-cd)pyrene	µg/kg	dw	2	180	460	320	320	198	140			14	48	560	91	54.5
Naphthalene	µg/kg	dw	3	100	790	337	120	393	227	1.73		13	48	560	99.4	55
Phenanthrene	µg/kg	dw	10	81	2,600	519	205	777	246	2.60	6.99	6	51	560	138	54.5
Pyrene	µg/kg	dw	11	120	3,000	552	210	869	262	2.70	7.49	5	510	570	546	550
Pesticides/Polychlorinated Biphenyls																
4,4'-DDD	µg/kg	dw	1	2.5	2.5	2.5	2.5					15	4.8	7.6	5.55	5.5
4,4'-DDE	µg/kg	dw	1	6.1	6.1	6.1	6.1					15	4.8	7.6	5.61	5.5
4,4'-DDT	µg/kg	dw	2	3.2	3.6	3.4	3.4	0.28	0.2			14	4.8	7.6	5.66	5.55
Aldrin	µg/kg	dw	2	0.69	1.1	0.90	0.90	0.29	0.21			14	2.4	3.8	2.79	2.7
alpha-BHC	µg/kg	dw	0									16	2.4	3.8	2.81	2.75
alpha-Chlordane	µg/kg	dw	3	2.8	7.8	4.67	3.40	2.73	1.58	1.64		11	2.4	3.3	2.79	2.8
beta-BHC	µg/kg	dw	0									15	2.4	3.8	2.82	2.8
delta-BHC	µg/kg	dw	1	0.66	0.66	0.66	0.66					15	2.4	3.8	2.81	2.7
Dieldrin	µg/kg	dw	1	11	11	11	11					13	4.8	7.6	5.65	5.5
Endosulfan I	µg/kg	dw	1	1.6	1.6	1.6	1.6					15	2.4	3.8	2.81	2.7
Endosulfan II	µg/kg	dw	4	0.57	10	5.27	5.25	4.05	2.03	0.02	-1.14	12	4.8	6.7	5.44	5.45
Endosulfan sulfate	µg/kg	dw	3	3	9.2	5.53	4.40	3.25	1.88	1.38		13	4.8	7.6	5.58	5.5
Endrin	µg/kg	dw	1	5.8	5.8	5.8	5.8					15	4.8	7.6	5.61	5.5
Endrin aldehyde	µg/kg	dw	1	17	17	17	17					14	4.8	7.6	5.66	5.55

Table G1-43. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	DETECTS Minimum Detection	DETECTS Maximum Detection	DETECTS Mean	DETECTS Median	DETECTS Standard Deviation	DETECTS Standard Error	DETECTS Skewness	DETECTS Kurtosis	NON-DETECTS N	NON-DETECTS Minimum Detection Limit	NON-DETECTS Maximum Detection Limit	NON-DETECTS Mean	NON-DETECTS Median
Endrin ketone	µg/kg	dw	0									16	4.8	7.6	5.63	5.55
gamma-BHC (Lindane)	µg/kg	dw	1	0.45	0.45	0.45	0.45					15	2.4	3.8	2.83	2.8
gamma-Chlordane	µg/kg	dw	4	0.2	0.99	0.63	0.67	0.39	0.19	-0.23	-4.49	12	2.4	3.8	2.82	2.75
Heptachlor	µg/kg	dw	2	0.74	1.2	0.97	0.97	0.33	0.23			14	2.4	3.8	2.80	2.75
Heptachlor epoxide	µg/kg	dw	1	1.6	1.6	1.6	1.6					15	2.4	3.8	2.81	2.7
Methoxychlor	µg/kg	dw	2	0.32	5	2.66	2.66	3.31	2.34			14	24	38	28.3	28
Toxaphene	µg/kg	dw	0									16	240	380	281	275
Aroclor 1016	µg/kg	dw	0									22	17	1,000	107	30
Aroclor 1221	µg/kg	dw	0									22	20	1,000	108	30
Aroclor 1232	µg/kg	dw	0									22	17	1,000	107	30
Aroclor 1242	µg/kg	dw	0									22	17	1,000	107	30
Aroclor 1248	µg/kg	dw	0									22	17	1,000	107	30
Aroclor 1254	µg/kg	dw	6	8	80	34.5	30	27.2	11.1	0.93	0.46	16	17	1,000	122	30
Aroclor 1260	µg/kg	dw	0									22	17	1,000	107	30
Aroclor 1268	µg/kg	dw	5	20	2,000	470	100	858	384	2.20	4.86	17	17	300	59.2	30
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	1	0.71	0.71	0.71	0.71					15	0.21	0.92	0.40	0.31
Total TCDDs	ng/kg	dw	7	0.75	8.3	3.68	1.92	3.14	1.19	0.68	-1.61	9	0.24	0.92	0.45	0.42
1,2,3,7,8-PeCDD	ng/kg	dw	0									16	0.14	0.83	0.34	0.31
Total PeCDDs	ng/kg	dw	4	2.19	8.75	4.18	2.90	3.10	1.55	1.80	3.21	12	0.14	0.83	0.36	0.33
1,2,3,4,7,8-HxCDD	ng/kg	dw	1	0.44	0.44	0.44	0.44					15	0.12	0.77	0.30	0.25
1,2,3,6,7,8-HxCDD	ng/kg	dw	6	0.71	4.2	1.88	1.69	1.26	0.51	1.48	2.63	10	0.17	0.88	0.38	0.33
1,2,3,7,8,9-HxCDD	ng/kg	dw	4	0.73	1.46	1.16	1.24	0.32	0.16	-1.12	1.13	12	0.12	0.81	0.32	0.29
Total HxCDDs	ng/kg	dw	10	0.43	21.4	9.25	8.44	6.30	1.99	0.59	0.14	6	0.17	0.47	0.31	0.31
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	12	1.62	66.7	20.6	18.1	19.3	5.56	1.19	1.74	4	0.26	0.37	0.31	0.31
Total HpCDDs	ng/kg	dw	12	3.23	124	42.6	43.0	37.3	10.8	0.82	0.42	4	0.26	0.37	0.31	0.31
OCDD	ng/kg	dw	12	8.02	407	145	113	131	37.7	0.69	-0.43	4	1.07	2.24	1.65	1.65
2,3,7,8-TCDF	ng/kg	dw	11	0.19	97.8	36.5	31.6	35.1	10.6	0.67	-0.91	5	0.24	0.60	0.39	0.35
Total TCDFs	ng/kg	dw	11	0.91	382	121	92	122	36.8	1.06	0.54	5	0.24	0.60	0.39	0.35
1,2,3,7,8-PeCDF	ng/kg	dw	9	0.29	56.8	18.5	17.9	17.1	5.72	1.39	2.74	7	0.11	0.35	0.22	0.23
2,3,4,7,8-PeCDF	ng/kg	dw	9	0.33	19.3	7.22	7.37	5.86	1.95	0.98	1.16	7	0.11	0.36	0.22	0.23
Total PeCDFs	ng/kg	dw	10	1.07	169	51.6	44.8	51.6	16.3	1.34	2.10	6	0.11	0.36	0.24	0.23
1,2,3,4,7,8-HxCDF	ng/kg	dw	12	0.35	120	21.2	9.98	33.6	9.71	2.64	7.84	4	0.13	0.30	0.21	0.22
1,2,3,6,7,8-HxCDF	ng/kg	dw	9	0.18	35.2	7.99	6.33	10.8	3.59	2.43	6.49	7	0.13	0.35	0.20	0.21
1,2,3,7,8,9-HxCDF	ng/kg	dw	6	4.42	21.7	8.11	5.65	6.70	2.73	2.38	5.75	10	0.14	0.45	0.24	0.22
2,3,4,6,7,8-HxCDF	ng/kg	dw	6	1.44	7.06	3.07	2.42	2.05	0.84	1.99	4.28	10	0.13	0.38	0.22	0.20
Total HxCDFs	ng/kg	dw	12	0.35	193	41.5	23.1	55.6	16.0	2.01	4.90	4	0.15	0.35	0.25	0.25
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	12	0.93	118	22.8	10.1	33.4	9.65	2.39	6.50	4	0.18	0.44	0.29	0.27
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	8	0.56	50.7	10.7	5.36	16.5	5.83	2.60	7.05	8	0.16	0.43	0.26	0.21
Total HpCDFs	ng/kg	dw	12	1.23	256	50.6	25.6	72.6	21.0	2.32	6.23	4	0.18	0.44	0.29	0.27
OCDF	ng/kg	dw	11	0.80	688	139	17.6	256	77.3	1.86	1.97	5	0.34	0.68	0.46	0.44

Table G1-44. Summary Statistics for Lower Ninemile Creek Sediment Samples Collected in 1998 and 2001 by Honeywell/Exponent/BBL (105-165 cm)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Chloride (Measured)	mg/kg	dw	0									0				
Dry weight	µg/kg	dw	0									0				
Particles < 0.0012 mm	%	dw	0									0				
Particles < 0.0027 mm	%	dw	0									0				
Particles < 0.0057 mm	%	dw	0									0				
Particles < 0.0079 mm	%	dw	0									0				
Particles < 0.0108 mm	%	dw	0									0				
Particles < 0.0178 mm	%	dw	0									0				
Particles < 0.0276 mm	%	dw	0									0				
Particles < 0.074 mm (sieve #200)	%	dw	0									0				
Particles < 0.105 mm (sieve #140)	%	dw	0									0				
Particles < 0.250 mm (sieve #60)	%	dw	0									0				
Particles < 0.42 mm (sieve #40)	%	dw	0									0				
Particles < 0.84 mm (sieve #20)	%	dw	0									0				
Particles < 2.00 mm (sieve #10)	%	dw	0									0				
Particles < 4.75 mm (sieve #4)	%	dw	0									0				
Particles < 9.50 mm	%	dw	0									0				
Particles < 12.7 mm (1/2" sieve)	%	dw	0									0				
Particles < 19.0 mm	%	dw	0									0				
Particles < 25.4 mm (1" sieve)	%	dw	0									0				
Particles < 37.5 mm (1 1/2" sieve)	%	dw	0									0				
Particles < 50 mm (2" sieve)	%	dw	0									0				
Particles < 75 mm (3" sieve)	%	dw	0									0				
Particles < 150 mm (6" sieve)	%	dw	0									0				
Particles < 300 mm (12" sieve)	%	dw	0									0				
Percent clay	%	ww	0									0				
Percent gravel	%	dw	0									0				
Percent moisture	%	ww	0									0				
Percent sand	%	ww	0									0				
Percent silt	%	ww	0									0				
Total organic carbon	mg/kg	dw	16	3,820	97,500	28,881	20,000	27,606	6,902	1.48	1.52	0				
Total solids	%	ww	16	40.2	80.8	61.1	60.0	11.4	2.85	-0.17	-0.16	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	10	3,610	12,500	6,280	5,260	2,941	930	1.36	1.09	0				
Antimony	mg/kg	dw	2	0.4	0.92	0.66	0.66	0.37	0.26			8	0.19	0.27	0.235	0.24
Arsenic	mg/kg	dw	10	1.8	37.6	11.4	7.83	10.1	3.18	2.30	6.00	0				
Barium	mg/kg	dw	10	19.2	177	82.2	75.7	46.0	14.5	0.94	1.01	0				
Beryllium	mg/kg	dw	10	0.24	1.9	0.57	0.43	0.49	0.15	2.67	7.67	0				
Cadmium	mg/kg	dw	4	0.06	0.4	0.22	0.21	0.14	0.07	0.38	1.57	6	0.03	0.05	0.04	0.04
Calcium	mg/kg	dw	10	59,700	290,000	153,700	136,500	79,501	25,140	0.56	-0.91	0				
Chromium	mg/kg	dw	10	7.8	26.4	16.6	15.9	6.18	1.95	0.21	-1.22	0				
Cobalt	mg/kg	dw	10	2.43	7.41	5.18	4.7	1.69	0.53	0.10	-1.00	0				
Copper	mg/kg	dw	10	9	61.3	24.6	20.2	15.8	4.98	1.47	2.59	0				
Cyanide	mg/kg	dw	2	0.74	0.91	0.82	0.82	0.12	0.08			8	0.68	0.94	0.83	0.87

Table G1-44. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Iron	mg/kg	dw	10	8,850	23,000	15,289	13,400	4,884	1,544	0.31	-1.24	0				
Lead	mg/kg	dw	10	3.89	321	66.0	12.2	112	35.5	1.91	2.49	0				
Magnesium	mg/kg	dw	10	3,890	25,000	11,278	11,300	6,362	2,012	0.93	1.31	0				
Manganese	mg/kg	dw	10	128	686	327	264	190	60.0	1.22	0.40	0				
Methylmercury	µg/kg	dw	8	0.08	2.71	1.52	1.87	1.03	0.36	-0.53	-1.54	1	0.03	0.03	0.03	0.03
Nickel	mg/kg	dw	10	7.79	33.6	19.6	19.5	8.07	2.55	0.20	-0.74	0				
Potassium	mg/kg	dw	10	583	3,100	1,312	1,005	823	260	1.44	1.37	0				
Selenium	mg/kg	dw	9	0.42	1.30	0.73	0.63	0.34	0.11	1.13	-0.15	1	0.32	0.32	0.32	0.32
Silver	mg/kg	dw	2	0.13	0.42	0.28	0.28	0.21	0.15			8	0.10	0.14	0.12	0.13
Sodium	mg/kg	dw	10	1,260	18,100	6,763	5,480	5,104	1,614	1.34	1.82	0				
Thallium	mg/kg	dw	2	0.65	0.81	0.73	0.73	0.11	0.08			8	0.49	0.69	0.59	0.60
Total Mercury	mg/kg	dw	16	0.01	30.2	2.95	0.19	7.59	1.90	3.51	12.9	0				
Vanadium	mg/kg	dw	10	6.43	38.1	15.2	10.4	9.87	3.12	1.67	2.43	0				
Zinc	mg/kg	dw	10	25.3	92	48.1	40.7	19.9	6.28	1.21	1.52	0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									1	6.9	6.9	6.9	6.9
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									1	6.9	6.9	6.9	6.9
1,1,2-Trichloroethane	µg/kg	dw	0									1	6.9	6.9	6.9	6.9
1,1-Dichloroethane	µg/kg	dw	0									1	6.9	6.9	6.9	6.9
1,1-Dichloroethene	µg/kg	dw	0									1	6.9	6.9	6.9	6.9
1,2-Dichloroethane	µg/kg	dw	0									1	6.9	6.9	6.9	6.9
1,2-Dichloroethene (Total)	µg/kg	dw	0									0				
1,2-Dichloropropane	µg/kg	dw	0									1	6.9	6.9	6.9	6.9
2-Butanone	µg/kg	dw	0									1	14	14	14	14
2-Hexanone	µg/kg	dw	0									1	14	14	14	14
4-Methyl-2-pentanone	µg/kg	dw	0									1	14	14	14	14
Acetone	µg/kg	dw	0									1	28	28	28	28
Benzene	µg/kg	dw	0									1	6.9	6.9	6.9	6.9
Bromodichloromethane	µg/kg	dw	0									1	6.9	6.9	6.9	6.9
Bromoform	µg/kg	dw	0									1	6.9	6.9	6.9	6.9
Bromomethane	µg/kg	dw	0									1	6.9	6.9	6.9	6.9
Carbon disulfide	µg/kg	dw	1	7.9	7.9	7.9	7.9					0				
Carbon Tetrachloride	µg/kg	dw	0									1	6.9	6.9	6.9	6.9
Chlorobenzene	µg/kg	dw	0									1	6.9	6.9	6.9	6.9
Chloroethane	µg/kg	dw	0									1	6.9	6.9	6.9	6.9
Chloroform	µg/kg	dw	0									1	6.9	6.9	6.9	6.9
Chloromethane	µg/kg	dw	0									1	6.9	6.9	6.9	6.9
cis-1,2-Dichloroethene	µg/kg	dw	0									1	6.9	6.9	6.9	6.9
cis-1,3-Dichloropropene	µg/kg	dw	0									1	6.9	6.9	6.9	6.9
Dibromochloromethane	µg/kg	dw	0									1	6.9	6.9	6.9	6.9
Ethylbenzene	µg/kg	dw	0									1	6.9	6.9	6.9	6.9
Methylene chloride	µg/kg	dw	1	41	41	41	41					0				
Styrene	µg/kg	dw	0									1	6.9	6.9	6.9	6.9
Tetrachloroethene	µg/kg	dw	0									1	6.9	6.9	6.9	6.9
Toluene	µg/kg	dw	0									1	6.9	6.9	6.9	6.9

Table G1-44. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
trans-1,2-Dichloroethene	µg/kg	dw	0									1	6.9	6.9	6.9	6.9
trans-1,3-Dichloropropene	µg/kg	dw	0									1	6.9	6.9	6.9	6.9
Trichloroethene	µg/kg	dw	0									1	6.9	6.9	6.9	6.9
Vinyl chloride	µg/kg	dw	0									1	6.9	6.9	6.9	6.9
meta & para Xylenes	µg/kg	dw	0									1	6.9	6.9	6.9	6.9
ortho-Xylene	µg/kg	dw	0									1	6.9	6.9	6.9	6.9
Xylene (Total)	µg/kg	dw	0									0				
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	0									9	450	670	552	550
1,2-Dichlorobenzene	µg/kg	dw	1	300	300	300	300					8	450	640	538	550
1,3-Dichlorobenzene	µg/kg	dw	2	340	480	410	410	99.0	70			7	450	670	544	550
1,4-Dichlorobenzene	µg/kg	dw	5	60	830	256	110	324	145	2.14	4.64	4	450	640	535	525
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									9	450	670	552	550
2,4,5-Trichlorophenol	µg/kg	dw	0									9	1,100	1,600	1,322	1,300
2,4,6-Trichlorophenol	µg/kg	dw	0									9	450	670	552	550
2,4-Dichlorophenol	µg/kg	dw	0									9	450	670	552	550
2,4-Dimethylphenol	µg/kg	dw	1	100	100	100	100					8	450	640	538	550
2,4-Dinitrophenol	µg/kg	dw	0									9	1,100	1,600	1,322	1,300
2,4-Dinitrotoluene	µg/kg	dw	0									9	450	670	552	550
2,6-Dinitrotoluene	µg/kg	dw	0									9	450	670	552	550
2-Chloronaphthalene	µg/kg	dw	0									9	450	670	552	550
2-Chlorophenol	µg/kg	dw	0									9	450	670	552	550
2-Methylphenol	µg/kg	dw	3	78	450	233	170	194	112	1.30		6	450	580	535	550
2-Nitroaniline	µg/kg	dw	0									9	45	66	54.8	55
2-Nitrophenol	µg/kg	dw	0									9	450	670	552	550
3,3'-Dichlorobenzidine	µg/kg	dw	0									9	450	670	553	560
3-Nitroaniline	µg/kg	dw	0									9	1,100	1,600	1,322	1,300
4,6-Dinitro-2-methylphenol	µg/kg	dw	0									9	1,100	1,600	1,322	1,300
4-Bromophenyl-phenyl ether	µg/kg	dw	0									9	450	670	552	550
4-Chloro-3-methylphenol	µg/kg	dw	0									9	450	670	552	550
4-Chloroaniline	µg/kg	dw	0									9	450	670	552	550
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									9	450	670	552	550
4-Methylphenol	µg/kg	dw	5	120	2,300	882	350	943	422	1.06	-0.56	4	450	550	513	525
4-Nitroaniline	µg/kg	dw	0									9	1,100	1,600	1,322	1,300
4-Nitrophenol	µg/kg	dw	0									9	1,100	1,600	1,322	1,300
Bis(2-chloroethoxy)methane	µg/kg	dw	0									9	450	670	552	550
Bis(2-chloroethyl)ether	µg/kg	dw	0									9	45	66	54.8	55
Bis(2-ethylhexyl)phthalate	µg/kg	dw	6	62	810	375	355	290	119	0.44	-0.82	3	500	580	543	550
Butylbenzylphthalate	µg/kg	dw	0									9	450	670	552	550
Carbazole	µg/kg	dw	3	110	220	163	160	55.1	31.8	0.27		6	450	670	565	565
Dibenzofuran	µg/kg	dw	3	59	130	88.7	77	36.9	21.3	1.28		6	450	670	565	565
Diethylphthalate	µg/kg	dw	0									9	450	670	552	550
Dimethylphthalate	µg/kg	dw	0									9	450	670	552	550
Di-n-butylphthalate	µg/kg	dw	0									9	450	670	552	550
Di-n-octylphthalate	µg/kg	dw	0									9	450	670	552	550

Table G1-44. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Hexachlorobenzene	µg/kg	dw	0									0				
Hexachlorobenzene (GC)	µg/kg	dw	0									0				
Hexachlorobenzene (GC/ECD)	µg/kg	dw	4	10	400	228	250	203	101	-0.17	-5.04	5	9	10	9.8	10
Hexachlorobenzene (MS)	µg/kg	dw	3	180	470	290	220	157	90.7	1.61		6	450	670	560	550
Hexachlorobutadiene	µg/kg	dw	0									9	450	670	552	550
Hexachlorocyclopentadiene	µg/kg	dw	0									9	450	670	552	550
Hexachloroethane	µg/kg	dw	0									9	450	670	552	550
Isophorone	µg/kg	dw	0									9	450	670	552	550
Nitrobenzene	µg/kg	dw	0									9	450	670	552	550
N-nitroso-di-n-propylamine	µg/kg	dw	0									9	45	66	54.8	55
N-Nitrosodiphenylamine	µg/kg	dw	0									9	450	670	552	550
Pentachlorophenol	µg/kg	dw	0									9	1,100	1,600	1,322	1,300
Phenol	µg/kg	dw	3	67	780	372	270	367	212	1.16		6	450	580	535	550
2-Methylnaphthalene	µg/kg	dw	2	77	80	78.5	78.5	2.12	1.5			7	450	670	549	550
Acenaphthene	µg/kg	dw	3	87	220	139	110	71.1	41.0	1.53		6	45	66	55.8	56
Acenaphthylene	µg/kg	dw	2	67	79	73	73	8.49	6			7	450	670	549	550
Anthracene	µg/kg	dw	4	55	590	269	215	227	114	1.30	2.41	5	45	66	56.2	58
Benzo(a)anthracene	µg/kg	dw	5	150	1,400	600	480	523	234	1.00	0.18	4	45	66	55.8	56
Benzo(a)pyrene	µg/kg	dw	5	130	1,100	496	370	419	187	0.79	-1.04	4	45	66	55.8	56
Benzo(b)fluoranthene	µg/kg	dw	5	210	1,600	840	620	668	299	0.39	-3.04	4	450	670	565	570
Benzo(g,h,i)perylene	µg/kg	dw	4	68	380	242	260	133	66.6	-0.69	0.20	5	45	66	55.4	54
Benzo(k)fluoranthene	µg/kg	dw	5	59	620	278	190	247	111	0.69	-1.75	4	45	66	55.8	56
Chrysene	µg/kg	dw	6	80	1,400	533	335	516	211	1.12	0.21	3	450	640	530	500
Dibenz(a,h)anthracene	µg/kg	dw	1	61	61	61	61					8	45	66	56	56.5
Fluoranthene	µg/kg	dw	7	100	2,600	939	390	958	362	1.12	-0.18	2	49	63	56	56
Fluorene	µg/kg	dw	3	110	270	177	150	83.3	48.1	1.29		6	45	66	55.8	56
Indeno(1,2,3-cd)pyrene	µg/kg	dw	3	190	390	283	270	101	58.1	0.59		6	45	66	55.8	56
Naphthalene	µg/kg	dw	3	83	140	104	90	31.1	17.9	1.63		6	45	110	63.2	56
Phenanthrene	µg/kg	dw	7	110	2,200	694	230	762	288	1.56	2.15	2	49	63	56	56
Pyrene	µg/kg	dw	7	81	2,600	884	360	957	362	1.24	0.25	2	500	640	570	570
Pesticides/Polychlorinated Biphenyls																
4,4'-DDD	µg/kg	dw	0									9	4.5	6.6	5.51	5.6
4,4'-DDE	µg/kg	dw	2	0.82	6.9	3.86	3.86	4.30	3.04			7	4.5	6.6	5.49	5.6
4,4'-DDT	µg/kg	dw	0									9	4.5	6.6	5.51	5.6
Aldrin	µg/kg	dw	0									9	2.3	3.3	2.77	2.8
alpha-BHC	µg/kg	dw	1	1.3	1.3	1.3	1.3					8	2.3	3.3	2.75	2.75
alpha-Chlordane	µg/kg	dw	2	0.66	3.9	2.28	2.28	2.29	1.62			7	2.3	3.3	2.83	2.9
beta-BHC	µg/kg	dw	0									9	2.3	3.3	2.77	2.8
delta-BHC	µg/kg	dw	0									8	2.3	3.3	2.83	2.85
Dieldrin	µg/kg	dw	1	18	18	18	18					8	4.5	6.6	5.48	5.5
Endosulfan I	µg/kg	dw	0									9	2.3	3.3	2.77	2.8
Endosulfan II	µg/kg	dw	1	1.5	1.5	1.5	1.5					8	4.5	6.4	5.38	5.5
Endosulfan sulfate	µg/kg	dw	1	5	5	5	5					8	4.5	6.6	5.48	5.5
Endrin	µg/kg	dw	0									9	4.5	6.6	5.51	5.6
Endrin aldehyde	µg/kg	dw	0									8	4.5	6.6	5.50	5.6

Table G1-44. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	DETECTS Minimum Detection	DETECTS Maximum Detection	DETECTS Mean	DETECTS Median	DETECTS Standard Deviation	DETECTS Standard Error	DETECTS Skewness	DETECTS Kurtosis	NON-DETECTS N	NON-DETECTS Minimum Detection Limit	NON-DETECTS Maximum Detection Limit	NON-DETECTS Mean	NON-DETECTS Median
Endrin ketone	µg/kg	dw	1	5	5	5	5					8	4.5	6.6	5.50	5.6
gamma-BHC (Lindane)	µg/kg	dw	1	2.8	2.8	2.8	2.8					7	2.5	3.3	2.90	2.9
gamma-Chlordane	µg/kg	dw	1	1	1	1	1					8	2.3	3.3	2.75	2.75
Heptachlor	µg/kg	dw	0									9	2.3	3.3	2.77	2.8
Heptachlor epoxide	µg/kg	dw	1	0.25	0.25	0.25	0.25					8	2.3	3.3	2.83	2.85
Methoxychlor	µg/kg	dw	0									9	23	33	27.7	28
Toxaphene	µg/kg	dw	0									9	230	330	277	280
Aroclor 1016	µg/kg	dw	0									10	20	300	75	30
Aroclor 1221	µg/kg	dw	0									10	20	300	75	30
Aroclor 1232	µg/kg	dw	0									10	20	300	75	30
Aroclor 1242	µg/kg	dw	0									10	20	300	75	30
Aroclor 1248	µg/kg	dw	0									10	20	300	75	30
Aroclor 1254	µg/kg	dw	4	8	90	47	45	33.8	16.9	0.34	1.14	6	20	30	26.7	30
Aroclor 1260	µg/kg	dw	0									10	20	300	75	30
Aroclor 1268	µg/kg	dw	4	5	100	48.8	45	39.2	19.6	0.55	1.36	6	20	30	26.7	30
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	0									9	0.14	6.02	0.97	0.37
Total TCDDs	ng/kg	dw	2	0.36	1.74	1.05	1.05	0.98	0.69			7	0.22	6.02	1.21	0.44
1,2,3,7,8-PeCDD	ng/kg	dw	0									9	0.10	5.30	0.80	0.28
Total PeCDDs	ng/kg	dw	3	0.65	4.06	1.82	0.75	1.94	1.12	1.73		6	0.17	5.30	1.12	0.31
1,2,3,4,7,8-HxCDD	ng/kg	dw	0									9	0.10	2.97	0.54	0.20
1,2,3,6,7,8-HxCDD	ng/kg	dw	3	0.41	1.92	1.25	1.41	0.77	0.45	-0.92		6	0.20	3.40	0.81	0.30
1,2,3,7,8,9-HxCDD	ng/kg	dw	1	0.35	0.35	0.35	0.35					8	0.19	3.13	0.63	0.27
Total HxCDDs	ng/kg	dw	5	0.52	8.85	4.65	3.14	3.65	1.63	0.29	-2.57	4	0.20	3.40	1.08	0.36
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	6	1.54	27.6	11.1	8.62	10.1	4.11	0.93	-0.10	3	0.32	4.68	1.81	0.41
Total HpCDDs	ng/kg	dw	6	3.03	56	23.0	17.7	20.7	8.47	0.85	-0.48	3	0.32	4.68	1.81	0.41
OCDD	ng/kg	dw	7	10.6	188	71.7	40.1	67.0	25.3	1.00	-0.24	2	1.39	1.95	1.67	1.67
2,3,7,8-TCDF	ng/kg	dw	4	2.77	66.6	21.9	9.07	30.3	15.2	1.82	3.29	5	0.21	5.00	1.27	0.40
Total TCDFs	ng/kg	dw	4	6.99	213	72.1	34.2	95.6	47.8	1.80	3.26	5	0.21	5.00	1.27	0.40
1,2,3,7,8-PeCDF	ng/kg	dw	4	1.11	14.5	5.92	4.04	5.90	2.95	1.63	2.97	5	0.13	3.68	0.89	0.20
2,3,4,7,8-PeCDF	ng/kg	dw	4	1.11	6.55	2.63	1.43	2.63	1.31	1.95	3.83	5	0.13	3.66	0.86	0.16
Total PeCDFs	ng/kg	dw	5	0.47	54.1	18.2	13.4	20.8	9.30	1.83	3.79	4	0.13	3.66	1.02	0.15
1,2,3,4,7,8-HxCDF	ng/kg	dw	4	2.19	11.8	6.59	6.18	4.24	2.12	0.42	-1.70	5	0.12	3.40	0.81	0.18
1,2,3,6,7,8-HxCDF	ng/kg	dw	4	0.80	3.68	2.04	1.84	1.29	0.65	0.63	-1.59	5	0.14	3.97	0.94	0.21
1,2,3,7,8,9-HxCDF	ng/kg	dw	2	0.90	2.71	1.81	1.81	1.28	0.90			7	0.16	4.49	0.89	0.25
2,3,4,6,7,8-HxCDF	ng/kg	dw	3	0.37	1.00	0.69	0.71	0.32	0.18	-0.29		6	0.14	4.10	0.85	0.22
Total HxCDFs	ng/kg	dw	5	0.38	33.5	15.6	15.4	12.3	5.48	0.45	0.70	4	0.18	3.97	1.14	0.21
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	6	1.37	32.1	10.6	6.98	11.4	4.65	1.72	3.08	3	0.14	2.87	1.08	0.22
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	4	0.67	2.84	1.73	1.7	1.04	0.52	0.07	-4.56	5	0.18	3.61	0.90	0.24
Total HpCDFs	ng/kg	dw	6	2.5	53	21.5	18.1	19.5	7.95	0.80	-0.31	3	0.14	2.87	1.08	0.22
OCDF	ng/kg	dw	6	1.01	42.3	14.7	12.4	15.3	6.24	1.35	1.99	3	0.27	9.20	3.34	0.56

Table G1-45. Summary Statistics for Lower Ninemile Creek Sediment Samples Collected in 1998 and 2001 by Honeywell/Exponent/BBL (below 165 cm)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Chloride (Measured)	mg/kg	dw	0									0				
Dry weight	µg/kg	dw	0									0				
Particles < 0.0012 mm	%	dw	0									0				
Particles < 0.0027 mm	%	dw	0									0				
Particles < 0.0057 mm	%	dw	0									0				
Particles < 0.0079 mm	%	dw	0									0				
Particles < 0.0108 mm	%	dw	0									0				
Particles < 0.0178 mm	%	dw	0									0				
Particles < 0.0276 mm	%	dw	0									0				
Particles < 0.074 mm (sieve #200)	%	dw	0									0				
Particles < 0.105 mm (sieve #140)	%	dw	0									0				
Particles < 0.250 mm (sieve #60)	%	dw	0									0				
Particles < 0.42 mm (sieve #40)	%	dw	0									0				
Particles < 0.84 mm (sieve #20)	%	dw	0									0				
Particles < 2.00 mm (sieve #10)	%	dw	0									0				
Particles < 4.75 mm (sieve #4)	%	dw	0									0				
Particles < 9.50 mm	%	dw	0									0				
Particles < 12.7 mm (1/2" sieve)	%	dw	0									0				
Particles < 19.0 mm	%	dw	0									0				
Particles < 25.4 mm (1" sieve)	%	dw	0									0				
Particles < 37.5 mm (1 1/2" sieve)	%	dw	0									0				
Particles < 50 mm (2" sieve)	%	dw	0									0				
Particles < 75 mm (3" sieve)	%	dw	0									0				
Particles < 150 mm (6" sieve)	%	dw	0									0				
Particles < 300 mm (12" sieve)	%	dw	0									0				
Percent clay	%	ww	0									0				
Percent gravel	%	dw	0									0				
Percent moisture	%	ww	0									0				
Percent sand	%	ww	0									0				
Percent silt	%	ww	0									0				
Total organic carbon	mg/kg	dw	33	501	57,500	9,625	5,780	11,741	2,044	2.55	7.98	0				
Total solids	%	ww	30	51.6	85.6	70.3	69.8	11.5	2.10	-0.07	-1.51	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	22	2,870	13,800	6,379	5,915	2,620	558	1.08	1.80	0				
Antimony	mg/kg	dw	9	0.21	0.46	0.34	0.35	0.09	0.03	-0.22	-1.38	13	0.17	0.27	0.21	0.2
Arsenic	mg/kg	dw	22	1.1	32.3	6.02	3.55	7.56	1.61	2.58	6.93	0				
Barium	mg/kg	dw	22	14.8	80.6	54.8	57.2	16.6	3.54	-0.69	0.34	0				
Beryllium	mg/kg	dw	22	0.16	1.4	0.43	0.38	0.26	0.05	2.73	9.82	0				
Cadmium	mg/kg	dw	9	0.06	0.72	0.26	0.11	0.24	0.08	0.98	0.03	13	0.03	0.05	0.04	0.03
Calcium	mg/kg	dw	22	34,400	236,000	141,405	169,500	69,203	14,754	-0.31	-1.46	0				
Chromium	mg/kg	dw	22	6	35.1	15.3	12.4	8.69	1.85	1.03	0.12	0				
Cobalt	mg/kg	dw	22	2.2	15.6	5.00	4.45	2.73	0.58	2.96	11.1	0				
Copper	mg/kg	dw	22	5.4	107	27.5	14.7	28.2	6.00	1.91	3.00	0				
Cyanide	mg/kg	dw	5	0.96	4.7	2.99	3.8	1.69	0.76	-0.48	-2.84	17	0.59	0.97	0.76	0.77

Table G1-45. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Iron	mg/kg	dw	22	7,380	26,100	12,551	10,750	4,801	1,024	1.35	1.57	0				
Lead	mg/kg	dw	22	2.6	191	34.1	6.05	54.4	11.6	1.94	2.86	0				
Magnesium	mg/kg	dw	22	8,340	44,500	15,770	13,100	8,007	1,707	2.38	7.38	0				
Manganese	mg/kg	dw	22	184	595	327	302	107	22.7	0.83	0.53	0				
Methylmercury	µg/kg	dw	14	0.02	4.36	0.86	0.16	1.37	0.37	1.92	2.80	1	0.02	0.02	0.02	0.02
Nickel	mg/kg	dw	22	5.4	46.2	17.2	12.9	11.1	2.36	1.26	1.07	0				
Potassium	mg/kg	dw	22	764	2,570	1,511	1,510	593	126	0.49	-0.75	0				
Selenium	mg/kg	dw	8	0.29	1.5	0.78	0.61	0.46	0.16	0.76	-1.07	14	0.21	0.35	0.27	0.27
Silver	mg/kg	dw	0									22	0.09	0.14	0.11	0.11
Sodium	mg/kg	dw	22	554	19,800	7,294	4,140	6,644	1,416	0.79	-0.86	0				
Thallium	mg/kg	dw	1	0.61	0.61	0.61	0.61					21	0.43	0.7	0.55	0.57
Total Mercury	mg/kg	dw	32	0.01	9.6	0.88	0.06	2.20	0.39	3.32	10.8	1	0.01	0.01	0.01	0.01
Vanadium	mg/kg	dw	22	6.6	27	13.8	12.2	5.62	1.20	1.21	0.72	0				
Zinc	mg/kg	dw	22	20	74.3	39.5	35.1	17.1	3.66	0.75	-0.57	0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									8	6.7	8.8	7.98	8.2
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									8	6.7	8.8	7.98	8.2
1,1,2-Trichloroethane	µg/kg	dw	0									8	6.7	8.8	7.98	8.2
1,1-Dichloroethane	µg/kg	dw	0									8	6.7	8.8	7.98	8.2
1,1-Dichloroethene	µg/kg	dw	0									8	6.7	8.8	7.98	8.2
1,2-Dichloroethane	µg/kg	dw	0									8	6.7	8.8	7.98	8.2
1,2-Dichloroethene (Total)	µg/kg	dw	0									0				
1,2-Dichloropropane	µg/kg	dw	0									8	6.7	8.8	7.98	8.2
2-Butanone	µg/kg	dw	1	4.6	4.6	4.6	4.6					7	14	18	16.4	17
2-Hexanone	µg/kg	dw	0									8	13	18	16	16.5
4-Methyl-2-pentanone	µg/kg	dw	0									8	13	18	16	16.5
Acetone	µg/kg	dw	0									8	28	35	32	32.5
Benzene	µg/kg	dw	0									8	6.7	8.8	7.98	8.2
Bromodichloromethane	µg/kg	dw	0									8	6.7	8.8	7.98	8.2
Bromoform	µg/kg	dw	0									8	6.7	8.8	7.98	8.2
Bromomethane	µg/kg	dw	0									8	6.7	8.8	7.98	8.2
Carbon disulfide	µg/kg	dw	8	5.6	68	37.7	34.5	23.9	8.44	0.05	-1.62	0				
Carbon Tetrachloride	µg/kg	dw	0									8	6.7	8.8	7.98	8.2
Chlorobenzene	µg/kg	dw	0									8	6.7	8.8	7.98	8.2
Chloroethane	µg/kg	dw	0									8	6.7	8.8	7.98	8.2
Chloroform	µg/kg	dw	0									8	6.7	8.8	7.98	8.2
Chloromethane	µg/kg	dw	0									8	6.7	8.8	7.98	8.2
cis-1,2-Dichloroethene	µg/kg	dw	0									8	6.7	8.8	7.98	8.2
cis-1,3-Dichloropropene	µg/kg	dw	0									8	6.7	8.8	7.98	8.2
Dibromochloromethane	µg/kg	dw	0									8	6.7	8.8	7.98	8.2
Ethylbenzene	µg/kg	dw	0									8	6.7	8.8	7.98	8.2
Methylene chloride	µg/kg	dw	1	290	290	290	290					7	6.7	170	31.1	8.5
Styrene	µg/kg	dw	0									8	6.7	8.8	7.98	8.2
Tetrachloroethene	µg/kg	dw	0									8	6.7	8.8	7.98	8.2
Toluene	µg/kg	dw	0									8	6.7	8.8	7.98	8.2

Table G1-45. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
trans-1,2-Dichloroethene	µg/kg	dw	0									8	6.7	8.8	7.98	8.2
trans-1,3-Dichloropropene	µg/kg	dw	0									8	6.7	8.8	7.98	8.2
Trichloroethene	µg/kg	dw	0									8	6.7	8.8	7.98	8.2
Vinyl chloride	µg/kg	dw	0									8	6.7	8.8	7.98	8.2
meta & para Xylenes	µg/kg	dw	0									8	6.7	8.8	7.98	8.2
ortho-Xylene	µg/kg	dw	0									8	6.7	8.8	7.98	8.2
Xylene (Total)	µg/kg	dw	0									0				
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	1	64	64	64	64					14	390	620	479	470
1,2-Dichlorobenzene	µg/kg	dw	2	67	180	124	124	79.9	56.5			13	390	590	474	470
1,3-Dichlorobenzene	µg/kg	dw	3	150	480	320	330	165	95.4	-0.27		12	390	620	469	445
1,4-Dichlorobenzene	µg/kg	dw	6	72	640	218	150	213	87.1	2.13	4.78	9	390	480	427	410
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									15	390	620	486	470
2,4,5-Trichlorophenol	µg/kg	dw	0									15	930	1,500	1,165	1,100
2,4,6-Trichlorophenol	µg/kg	dw	0									15	390	620	486	470
2,4-Dichlorophenol	µg/kg	dw	0									15	390	620	486	470
2,4-Dimethylphenol	µg/kg	dw	1	120	120	120	120					14	390	590	476	470
2,4-Dinitrophenol	µg/kg	dw	0									15	930	1,500	1,165	1,100
2,4-Dinitrotoluene	µg/kg	dw	0									15	390	620	486	470
2,6-Dinitrotoluene	µg/kg	dw	0									15	390	620	486	470
2-Chloronaphthalene	µg/kg	dw	0									15	390	620	486	470
2-Chlorophenol	µg/kg	dw	0									15	390	620	486	470
2-Methylphenol	µg/kg	dw	2	91	500	296	296	289	205			13	390	590	477	470
2-Nitroaniline	µg/kg	dw	0									15	38	61	48.1	46
2-Nitrophenol	µg/kg	dw	0									15	390	620	486	470
3,3'-Dichlorobenzidine	µg/kg	dw	0									15	390	620	486	470
3-Nitroaniline	µg/kg	dw	0									15	930	1,500	1,165	1,100
4,6-Dinitro-2-methylphenol	µg/kg	dw	0									15	930	1,500	1,165	1,100
4-Bromophenyl-phenyl ether	µg/kg	dw	0									15	390	620	486	470
4-Chloro-3-methylphenol	µg/kg	dw	0									15	390	620	486	470
4-Chloroaniline	µg/kg	dw	1	65	65	65	65					14	390	590	476	470
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									15	390	620	486	470
4-Methylphenol	µg/kg	dw	6	72	1,600	462	215	577	236	2.12	4.60	9	390	590	470	420
4-Nitroaniline	µg/kg	dw	0									15	930	1,500	1,165	1,100
4-Nitrophenol	µg/kg	dw	0									15	930	1,500	1,165	1,100
Bis(2-chloroethoxy)methane	µg/kg	dw	0									15	390	620	486	470
Bis(2-chloroethyl)ether	µg/kg	dw	0									15	38	61	48.1	46
Bis(2-ethylhexyl)phthalate	µg/kg	dw	13	85	500	279	210	151	42.0	0.38	-1.69	2	470	510	490	490
Butylbenzylphthalate	µg/kg	dw	0									15	390	620	486	470
Carbazole	µg/kg	dw	4	55	170	98.3	84	50.4	25.2	1.43	2.16	11	390	620	459	420
Dibenzofuran	µg/kg	dw	1	55	55	55	55					14	390	620	484	470
Diethylphthalate	µg/kg	dw	1	270	270	270	270					14	390	620	487	475
Dimethylphthalate	µg/kg	dw	0									15	390	620	486	470
Di-n-butylphthalate	µg/kg	dw	0									15	390	620	486	470
Di-n-octylphthalate	µg/kg	dw	0									15	390	620	486	470

Table G1-45. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	DETECTS Minimum Detection	DETECTS Maximum Detection	DETECTS Mean	DETECTS Median	DETECTS Standard Deviation	DETECTS Standard Error	DETECTS Skewness	DETECTS Kurtosis	NON-DETECTS N	NON-DETECTS Minimum Detection Limit	NON-DETECTS Maximum Detection Limit	NON-DETECTS Mean	NON-DETECTS Median
Hexachlorobenzene	µg/kg	dw	0									0				
Hexachlorobenzene (GC)	µg/kg	dw	0									0				
Hexachlorobenzene (GC/ECD)	µg/kg	dw	6	4	400	166	150	137	55.8	0.94	1.27	9	8	10	8.56	8
Hexachlorobenzene (MS)	µg/kg	dw	5	150	570	328	300	170	76.1	0.61	-0.89	10	390	620	446	415
Hexachlorobutadiene	µg/kg	dw	0									15	390	620	486	470
Hexachlorocyclopentadiene	µg/kg	dw	0									15	390	620	486	470
Hexachloroethane	µg/kg	dw	0									15	390	620	486	470
Isophorone	µg/kg	dw	0									15	390	620	486	470
Nitrobenzene	µg/kg	dw	0									15	390	620	486	470
N-nitroso-di-n-propylamine	µg/kg	dw	0									15	38	61	48.1	46
N-Nitrosodiphenylamine	µg/kg	dw	0									15	390	620	486	470
Pentachlorophenol	µg/kg	dw	0									15	930	1,500	1,165	1,100
Phenol	µg/kg	dw	3	55	330	198	210	138	79.6	-0.38		12	390	590	477	445
2-Methylnaphthalene	µg/kg	dw	1	90	90	90	90					14	390	620	484	470
Acenaphthene	µg/kg	dw	3	56	76	64	60	10.6	6.11	1.46		12	38	61	46.3	43.5
Acenaphthylene	µg/kg	dw	1	60	60	60	60					14	390	620	479	470
Anthracene	µg/kg	dw	4	110	210	150	140	43.2	21.6	1.19	1.50	11	38	61	45.3	41
Benzo(a)anthracene	µg/kg	dw	6	64	630	337	340	203	82.9	0.11	-0.54	9	38	48	42	41
Benzo(a)pyrene	µg/kg	dw	5	140	570	340	270	172	77.0	0.41	-1.36	10	38	61	43.9	41
Benzo(b)fluoranthene	µg/kg	dw	6	63	840	462	420	315	129	0.19	-1.56	9	390	480	427	410
Benzo(g,h,i)perylene	µg/kg	dw	5	68	310	169	130	106	47.3	0.59	-2.14	10	38	61	43.9	41
Benzo(k)fluoranthene	µg/kg	dw	5	78	300	184	140	92.7	41.4	0.36	-2.08	10	38	61	43.9	41
Chrysene	µg/kg	dw	6	64	660	382	370	220	89.9	-0.13	-0.74	9	390	480	427	410
Dibenz(a,h)anthracene	µg/kg	dw	1	100	100	100	100					14	38	61	47.5	46
Fluoranthene	µg/kg	dw	6	180	1,500	798	755	466	190	0.32	-0.22	9	38	48	42	41
Fluorene	µg/kg	dw	4	75	120	91.8	86	20.1	10.1	1.32	1.39	11	38	61	45.3	41
Indeno(1,2,3-cd)pyrene	µg/kg	dw	5	62	290	157	120	95.1	42.5	0.69	-1.44	10	38	61	43.9	41
Naphthalene	µg/kg	dw	1	95	95	95	95					14	38	230	60	46
Phenanthrene	µg/kg	dw	6	180	1,000	565	570	291	119	0.23	-0.35	9	38	48	42	41
Pyrene	µg/kg	dw	6	180	1,400	712	670	427	174	0.61	0.38	9	390	480	427	410
Pesticides/Polychlorinated Biphenyls																
4,4'-DDD	µg/kg	dw	2	0.22	1.9	1.06	1.06	1.19	0.84			13	3.9	6	4.88	4.7
4,4'-DDE	µg/kg	dw	1	6.1	6.1	6.1	6.1					14	3.9	6.2	4.85	4.7
4,4'-DDT	µg/kg	dw	0									15	3.9	6.2	4.92	4.7
Aldrin	µg/kg	dw	2	1.5	3.1	2.3	2.3	1.131	0.8			13	1.9	3.1	2.37	2.3
alpha-BHC	µg/kg	dw	1	0.85	0.85	0.85	0.85					14	1.9	3.1	2.41	2.3
alpha-Chlordane	µg/kg	dw	5	0.77	13	5.43	2.4	5.67	2.54	0.71	-2.38	10	1.9	3.1	2.42	2.3
beta-BHC	µg/kg	dw	0									15	1.9	3.1	2.45	2.3
delta-BHC	µg/kg	dw	0									15	1.9	3.1	2.45	2.3
Dieldrin	µg/kg	dw	1	8.5	8.5	8.5	8.5					13	3.9	6.2	4.76	4.7
Endosulfan I	µg/kg	dw	0									15	1.9	3.1	2.45	2.3
Endosulfan II	µg/kg	dw	3	0.12	9	4.17	3.4	4.49	2.59	0.75		12	3.9	6.2	4.88	4.7
Endosulfan sulfate	µg/kg	dw	2	4.3	4.5	4.4	4.4	0.14	0.1			13	3.9	6.2	4.76	4.7
Endrin	µg/kg	dw	1	1.1	1.1	1.1	1.1					14	3.9	6	4.83	4.7
Endrin aldehyde	µg/kg	dw	2	0.1	16	8.05	8.05	11.2	7.95			12	3.9	6.2	4.76	4.7

Table G1-45. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Endrin ketone	µg/kg	dw	0									15	3.9	6.2	4.92	4.7
gamma-BHC (Lindane)	µg/kg	dw	2	0.52	0.8	0.66	0.66	0.20	0.14			13	1.9	3.1	2.52	2.4
gamma-Chlordane	µg/kg	dw	1	2	2	2	2					14	1.9	3.1	2.41	2.3
Heptachlor	µg/kg	dw	0									15	1.9	3.1	2.45	2.3
Heptachlor epoxide	µg/kg	dw	3	0.34	3.8	1.57	0.56	1.94	1.12	1.71		12	1.9	2.9	2.38	2.3
Methoxychlor	µg/kg	dw	1	1.2	1.2	1.2	1.2					14	19	31	24.8	23.5
Toxaphene	µg/kg	dw	0									15	190	310	245	230
Aroclor 1016	µg/kg	dw	0									22	20	300	46.8	25
Aroclor 1221	µg/kg	dw	0									22	20	300	46.8	25
Aroclor 1232	µg/kg	dw	0									22	20	300	46.8	25
Aroclor 1242	µg/kg	dw	0									22	20	300	46.8	25
Aroclor 1248	µg/kg	dw	0									22	20	300	46.8	25
Aroclor 1254	µg/kg	dw	3	100	100	100	100	0	0			19	20	100	27.9	20
Aroclor 1260	µg/kg	dw	0									22	20	300	46.8	25
Aroclor 1268	µg/kg	dw	3	80	700	287	80	358	207	1.73		19	20	100	27.9	20
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	0									15	0.10	0.72	0.37	0.33
Total TCDDs	ng/kg	dw	1	2.5	2.5	2.5	2.5					14	0.10	0.72	0.35	0.30
1,2,3,7,8-PeCDD	ng/kg	dw	0									15	0.10	0.53	0.29	0.25
Total PeCDDs	ng/kg	dw	3	1.2	3.96	2.16	1.31	1.56	0.90	1.72		12	0.10	0.53	0.27	0.24
1,2,3,4,7,8-HxCDD	ng/kg	dw	0									15	0.11	0.48	0.26	0.25
1,2,3,6,7,8-HxCDD	ng/kg	dw	4	1.31	4.21	2.59	2.42	1.42	0.71	0.30	-4.14	11	0.13	0.55	0.28	0.24
1,2,3,7,8,9-HxCDD	ng/kg	dw	2	1.08	1.28	1.18	1.18	0.14	0.1			13	0.12	0.50	0.27	0.26
Total HxCDDs	ng/kg	dw	5	3.43	28.3	14.8	11.7	11.0	4.91	0.38	-2.55	10	0.13	0.48	0.26	0.24
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	11	0.31	59	13.9	2.44	19.8	5.97	1.54	1.57	4	0.18	0.39	0.27	0.25
Total HpCDDs	ng/kg	dw	10	0.40	111	29.2	12	38.4	12.1	1.34	0.93	5	0.14	0.39	0.24	0.21
OCDD	ng/kg	dw	6	14.3	362	158	145	126	51.5	0.70	-0.02	9	1.27	3.83	2.14	1.73
2,3,7,8-TCDF	ng/kg	dw	5	11.6	69.5	45.9	54.5	26.1	11.7	-0.55	-2.30	10	0.08	0.55	0.27	0.25
Total TCDFs	ng/kg	dw	5	47.8	306	183	237	110	49.3	-0.37	-2.35	10	0.08	0.55	0.27	0.25
1,2,3,7,8-PeCDF	ng/kg	dw	5	5.61	18.1	12.2	13.4	5.92	2.65	-0.25	-2.96	10	0.07	0.35	0.17	0.16
2,3,4,7,8-PeCDF	ng/kg	dw	5	3.44	9.87	6.77	7.19	3.10	1.39	-0.17	-2.99	10	0.07	0.34	0.16	0.16
Total PeCDFs	ng/kg	dw	5	23.1	76	46.8	50.6	22.4	10.0	0.15	-1.77	10	0.07	0.34	0.16	0.16
1,2,3,4,7,8-HxCDF	ng/kg	dw	7	0.14	22.3	10.7	10.6	8.21	3.10	-0.05	-1.06	8	0.06	0.26	0.15	0.15
1,2,3,6,7,8-HxCDF	ng/kg	dw	6	0.30	6.82	3.73	3.72	2.24	0.91	-0.24	0.28	9	0.08	0.30	0.18	0.18
1,2,3,7,8,9-HxCDF	ng/kg	dw	4	1.95	4.85	3.33	3.26	1.35	0.67	0.18	-3.59	11	0.08	0.34	0.19	0.20
2,3,4,6,7,8-HxCDF	ng/kg	dw	5	0.62	3.04	1.71	1.71	0.87	0.39	0.64	1.89	10	0.08	0.31	0.17	0.18
Total HxCDFs	ng/kg	dw	6	1.42	65.6	35.7	37.1	24.0	9.78	-0.24	-1.27	9	0.08	0.30	0.18	0.18
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	8	0.60	39.3	14.2	9.67	14.6	5.17	0.81	-0.73	7	0.11	0.30	0.19	0.19
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	6	0.32	6.7	3.53	3.43	2.22	0.91	1.9E-03	-0.02	9	0.14	0.38	0.24	0.23
Total HpCDFs	ng/kg	dw	8	0.47	95.3	33.5	22.0	36.2	12.8	0.80	-0.80	7	0.11	0.30	0.19	0.19
OCDF	ng/kg	dw	8	0.51	69.9	27.0	30.4	24.0	8.48	0.52	-0.12	7	0.13	0.70	0.39	0.41

Table G1-46. Summary Statistics for Upper Geddes Brook Sediment Samples Collected in 1998 and 2001 by Honeywell/Exponent/BBL (0-15 cm)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Chloride (Measured)	mg/kg	dw	3	118	140	126	119	12.4	7.17	1.72		0				
Dry weight	µg/kg	dw	3	0.48	0.61	0.56	0.59	0.07	0.04	-1.57		0				
Particles < 0.0012 mm	%	dw	3	4.1	6.8	5.43	5.4	1.35	0.78	0.11		0				
Particles < 0.0027 mm	%	dw	3	7.5	11.4	9.43	9.4	1.95	1.13	0.08		0				
Particles < 0.0057 mm	%	dw	3	9.4	14.9	11.4	10	3.02	1.74	1.66		0				
Particles < 0.0079 mm	%	dw	3	11.4	19.5	15.1	14.3	4.10	2.37	0.81		0				
Particles < 0.0108 mm	%	dw	3	15.4	21.8	17.7	16	3.53	2.04	1.68		0				
Particles < 0.0178 mm	%	dw	3	21	28.7	23.7	21.4	4.33	2.50	1.72		0				
Particles < 0.0276 mm	%	dw	3	26.1	35.6	29.4	26.4	5.40	3.12	1.73		0				
Particles < 0.074 mm (sieve #200)	%	dw	3	32.6	49.9	38.6	33.2	9.81	5.66	1.73		0				
Particles < 0.105 mm (sieve #140)	%	dw	3	36.6	55.2	43.4	38.5	10.2	5.89	1.67		0				
Particles < 0.250 mm (sieve #60)	%	dw	3	64.2	75.8	70.7	72.2	5.92	3.42	-1.03		0				
Particles < 0.42 mm (sieve #40)	%	dw	3	84.0	90.3	88.2	90.1	3.58	2.07	-1.72		0				
Particles < 0.84 mm (sieve #20)	%	dw	3	89.6	97.9	94.7	96.7	4.49	2.59	-1.59		0				
Particles < 2.00 mm (sieve #10)	%	dw	3	96.4	99.5	98.3	98.9	1.65	0.95	-1.42		0				
Particles < 4.75 mm (sieve #4)	%	dw	3	99.6	99.9	99.8	99.8	0.19	0.11	-1.39		0				
Particles < 9.50 mm	%	dw	3	100	100	100	100	0	0			0				
Particles < 12.7 mm (1/2" sieve)	%	dw	3	100	100	100	100	0	0			0				
Particles < 19.0 mm	%	dw	3	100	100	100	100	0	0			0				
Particles < 25.4 mm (1" sieve)	%	dw	3	100	100	100	100	0	0			0				
Particles < 37.5 mm (1 1/2" sieve)	%	dw	3	100	100	100	100	0	0			0				
Particles < 50 mm (2" sieve)	%	dw	3	100	100	100	100	0	0			0				
Particles < 75 mm (3" sieve)	%	dw	3	100	100	100	100	0	0			0				
Particles < 150 mm (6" sieve)	%	dw	3	100	100	100	100	0	0			0				
Particles < 300 mm (12" sieve)	%	dw	3	100	100	100	100	0	0			0				
Percent clay	%	ww	3	5.74	9.01	7.43	7.55	1.64	0.95	-0.32		0				
Percent gravel	%	dw	3	0.48	3.62	1.75	1.15	1.65	0.95	1.42		0				
Percent moisture	%	ww	3	50.5	89.6	67.1	61.3	20.2	11.7	1.19		0				
Percent sand	%	ww	3	53.4	70.0	64.1	69.0	9.33	5.39	-1.71		0				
Percent silt	%	ww	3	22.3	34.0	26.7	23.74	6.38	3.68	1.64		0				
Total organic carbon	mg/kg	dw	6	18,100	34,100	23,650	18,950	7,800	3,185	0.96	-1.85	0				
Total solids	%	ww	6	46.3	62.8	56.2	56.9	6.31	2.57	-0.65	-0.71	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	3	4,310	7,180	5,293	4,390	1,634	944	1.73		0				
Antimony	mg/kg	dw	0									3	0.51	15.1	5.57	1.1
Arsenic	mg/kg	dw	3	1.8	3.3	2.5	2.4	0.75	0.44	0.59		0				
Barium	mg/kg	dw	3	45.4	50.9	47.3	45.7	3.09	1.79	1.71		0				

Table G1-46. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Beryllium	mg/kg	dw	0									3	0.25	0.36	0.29	0.25
Cadmium	mg/kg	dw	0									3	1.4	1.6	1.53	1.6
Calcium	mg/kg	dw	3	71,700	153,000	114,567	119,000	40,831	23,574	-0.48		0				
Chromium	mg/kg	dw	3	10.7	19.9	14.9	14.1	4.65	2.69	0.75		0				
Cobalt	mg/kg	dw	3	4.8	7	6.1	6.5	1.15	0.67	-1.37		0				
Copper	mg/kg	dw	3	18.9	31.3	24.3	22.6	6.37	3.68	1.10		0				
Cyanide	mg/kg	dw	0									3	4	4.7	4.47	4.7
Iron	mg/kg	dw	3	8,130	13,100	10,443	10,100	2,503	1,445	0.61		0				
Lead	mg/kg	dw	3	29.5	63	40.9	30.3	19.1	11.0	1.73		0				
Magnesium	mg/kg	dw	3	13,000	21,400	17,867	19,200	4,356	2,515	-1.25		0				
Manganese	mg/kg	dw	3	168	237	213	233	38.7	22.4	-1.71		0				
Methylmercury	µg/kg	dw	3	1.19	2.01	1.57	1.53	0.41	0.24	0.53		0				
Nickel	mg/kg	dw	3	9.9	15	12.1	11.5	2.61	1.51	1.03		0				
Potassium	mg/kg	dw	3	1,030	1,580	1,247	1,130	293	169	1.51		0				
Selenium	mg/kg	dw	0									3	1.2	1.4	1.33	1.4
Silver	mg/kg	dw	0									3	0.96	1.1	1.05	1.1
Sodium	mg/kg	dw	3	278	372	340	371	54.0	31.2	-1.73		0				
Thallium	mg/kg	dw	0									3	1.5	1.8	1.7	1.8
Total Mercury	mg/kg	dw	6	0.06	0.36	0.18	0.18	0.11	0.04	0.66	0.25	0				
Vanadium	mg/kg	dw	3	10.4	15.6	13.4	14.3	2.71	1.56	-1.29		0				
Zinc	mg/kg	dw	3	103	221	170	186	60.6	35.0	-1.11		0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									3	16	19	18	19
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									3	16	19	18	19
1,1,2-Trichloroethane	µg/kg	dw	0									3	16	19	18	19
1,1-Dichloroethane	µg/kg	dw	0									3	16	19	18	19
1,1-Dichloroethene	µg/kg	dw	0									3	16	19	18	19
1,2-Dichloroethane	µg/kg	dw	0									3	16	19	18	19
1,2-Dichloroethene (Total)	µg/kg	dw	0									3	16	19	18	19
1,2-Dichloropropane	µg/kg	dw	0									3	16	19	18	19
2-Butanone	µg/kg	dw	1	9.7	9.7	9.7	9.7					2	16	19	17.5	17.5
2-Hexanone	µg/kg	dw	0									3	16	19	18	19
4-Methyl-2-pentanone	µg/kg	dw	0									3	16	19	18	19
Acetone	µg/kg	dw	3	23	130	66.7	47	56.1	32.4	1.38		0				
Benzene	µg/kg	dw	0									3	16	19	18	19
Bromodichloromethane	µg/kg	dw	0									3	16	19	18	19
Bromoform	µg/kg	dw	0									3	16	19	18	19
Bromomethane	µg/kg	dw	0									3	16	19	18	19
Carbon disulfide	µg/kg	dw	0									3	16	19	18	19
Carbon Tetrachloride	µg/kg	dw	0									3	16	19	18	19
Chlorobenzene	µg/kg	dw	0									3	16	19	18	19
Chloroethane	µg/kg	dw	0									3	16	19	18	19

Table G1-46. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Chloroform	µg/kg	dw	0									3	16	19	18	19
Chloromethane	µg/kg	dw	0									3	16	19	18	19
cis-1,2-Dichloroethene	µg/kg	dw	0									0				
cis-1,3-Dichloropropene	µg/kg	dw	0									3	16	19	18	19
Dibromochloromethane	µg/kg	dw	0									3	16	19	18	19
Ethylbenzene	µg/kg	dw	0									3	16	19	18	19
Methylene chloride	µg/kg	dw	3	11	43	22	12	18.2	10.5	1.73		0				
Styrene	µg/kg	dw	0									3	16	19	18	19
Tetrachloroethene	µg/kg	dw	0									3	16	19	18	19
Toluene	µg/kg	dw	0									3	16	19	18	19
trans-1,2-Dichloroethene	µg/kg	dw	0									0				
trans-1,3-Dichloropropene	µg/kg	dw	0									3	16	19	18	19
Trichloroethene	µg/kg	dw	0									3	16	19	18	19
Vinyl chloride	µg/kg	dw	0									3	16	19	18	19
meta & para Xylenes	µg/kg	dw	0									0				
ortho-Xylene	µg/kg	dw	0									0				
Xylene (Total)	µg/kg	dw	0									3	16	19	18	19
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	0									3	530	3,100	1,417	620
1,2-Dichlorobenzene	µg/kg	dw	0									3	530	3,100	1,417	620
1,3-Dichlorobenzene	µg/kg	dw	0									3	530	3,100	1,417	620
1,4-Dichlorobenzene	µg/kg	dw	0									3	530	3,100	1,417	620
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									3	530	3,100	1,417	620
2,4,5-Trichlorophenol	µg/kg	dw	0									3	1,300	7,800	3,567	1,600
2,4,6-Trichlorophenol	µg/kg	dw	0									3	530	3,100	1,417	620
2,4-Dichlorophenol	µg/kg	dw	0									3	530	3,100	1,417	620
2,4-Dimethylphenol	µg/kg	dw	0									3	530	3,100	1,417	620
2,4-Dinitrophenol	µg/kg	dw	0									3	1,300	7,800	3,567	1,600
2,4-Dinitrotoluene	µg/kg	dw	0									3	530	3,100	1,417	620
2,6-Dinitrotoluene	µg/kg	dw	0									3	530	3,100	1,417	620
2-Chloronaphthalene	µg/kg	dw	0									3	530	3,100	1,417	620
2-Chlorophenol	µg/kg	dw	0									3	530	3,100	1,417	620
2-Methylphenol	µg/kg	dw	0									3	530	3,100	1,417	620
2-Nitroaniline	µg/kg	dw	0									3	1,300	7,800	3,567	1,600
2-Nitrophenol	µg/kg	dw	0									3	530	3,100	1,417	620
3,3'-Dichlorobenzidine	µg/kg	dw	0									3	530	3,100	1,417	620
3-Nitroaniline	µg/kg	dw	0									3	1,300	7,800	3,567	1,600
4,6-Dinitro-2-methylphenol	µg/kg	dw	0									3	1,300	7,800	3,567	1,600
4-Bromophenyl-phenyl ether	µg/kg	dw	0									3	530	3,100	1,417	620
4-Chloro-3-methylphenol	µg/kg	dw	0									3	530	3,100	1,417	620
4-Chloroaniline	µg/kg	dw	0									3	530	3,100	1,417	620
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									3	530	3,100	1,417	620

Table G1-46. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
4-Methylphenol	µg/kg	dw	0									3	530	3,100	1,417	620
4-Nitroaniline	µg/kg	dw	0									3	1,300	7,800	3,567	1,600
4-Nitrophenol	µg/kg	dw	0									3	1,300	7,800	3,567	1,600
Bis(2-chloroethoxy)methane	µg/kg	dw	0									3	530	3,100	1,417	620
Bis(2-chloroethyl)ether	µg/kg	dw	0									3	530	3,100	1,417	620
Bis(2-ethylhexyl)phthalate	µg/kg	dw	3	680	2,100	1,293	1,100	729	421	1.11		0				
Butylbenzylphthalate	µg/kg	dw	1	140	140	140	140					2	620	3,100	1,860	1,860
Carbazole	µg/kg	dw	3	110	1,500	630	280	758	438	1.63		0				
Dibenzofuran	µg/kg	dw	2	73	410	242	242	238	169			1	530	530	530	530
Diethylphthalate	µg/kg	dw	0									3	530	3,100	1,417	620
Dimethylphthalate	µg/kg	dw	0									3	530	3,100	1,417	620
Di-n-butylphthalate	µg/kg	dw	0									3	530	3,100	1,417	620
Di-n-octylphthalate	µg/kg	dw	0									3	530	3,100	1,417	620
Hexachlorobenzene	µg/kg	dw	0									3	530	3,100	1,417	620
Hexachlorobenzene (GC)	µg/kg	dw	1	3.1	3.1	3.1	3.1					2	6.2	6.2	6.2	6.2
Hexachlorobenzene (GC/ECD)	µg/kg	dw	0									0				
Hexachlorobenzene (MS)	µg/kg	dw	0									0				
Hexachlorobutadiene	µg/kg	dw	0									3	530	3,100	1,417	620
Hexachlorocyclopentadiene	µg/kg	dw	0									3	530	3,100	1,417	620
Hexachloroethane	µg/kg	dw	0									3	530	3,100	1,417	620
Isophorone	µg/kg	dw	0									3	530	3,100	1,417	620
Nitrobenzene	µg/kg	dw	0									3	530	3,100	1,417	620
N-nitroso-di-n-propylamine	µg/kg	dw	0									3	530	3,100	1,417	620
N-Nitrosodiphenylamine	µg/kg	dw	0									3	530	3,100	1,417	620
Pentachlorophenol	µg/kg	dw	0									3	1,300	7,800	3,567	1,600
Phenol	µg/kg	dw	0									3	530	3,100	1,417	620
2-Methylnaphthalene	µg/kg	dw	0									3	530	3,100	1,417	620
Acenaphthene	µg/kg	dw	2	130	680	405	405	389	275			1	530	530	530	530
Acenaphthylene	µg/kg	dw	3	62	410	180	69	199	115	1.73		0				
Anthracene	µg/kg	dw	3	190	2,600	1,103	520	1,307	754	1.61		0				
Benzo(a)anthracene	µg/kg	dw	3	970	10,000	4,357	2,100	4,920	2,840	1.63		0				
Benzo(a)pyrene	µg/kg	dw	3	1,000	10,000	4,367	2,100	4,910	2,835	1.63		0				
Benzo(b)fluoranthene	µg/kg	dw	3	1,300	15,000	6,233	2,400	7,612	4,395	1.69		0				
Benzo(g,h,i)perylene	µg/kg	dw	3	290	1,200	670	520	473	273	1.28		0				
Benzo(k)fluoranthene	µg/kg	dw	3	960	9,000	3,887	1,700	4,444	2,566	1.68		0				
Chrysene	µg/kg	dw	3	1,300	12,000	5,300	2,600	5,839	3,371	1.64		0				
Dibenz(a,h)anthracene	µg/kg	dw	3	240	1,400	717	510	607	350	1.35		0				
Fluoranthene	µg/kg	dw	3	1,900	23,000	9,667	4,100	11,599	6,697	1.66		0				
Fluorene	µg/kg	dw	3	67	940	409	220	466	269	1.52		0				
Indeno(1,2,3-cd)pyrene	µg/kg	dw	3	760	5,300	2,487	1,400	2,457	1,419	1.60		0				
Naphthalene	µg/kg	dw	0									3	530	3,100	1,417	620
Phenanthrene	µg/kg	dw	3	910	12,000	5,103	2,400	6,019	3,475	1.61		0				

Table G1-46. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Pyrene	µg/kg	dw	3	1,600	16,000	7,100	3,700	7,779	4,491	1.59		0				
Pesticides/Polychlorinated Biphenyls																
4,4'-DDD	µg/kg	dw	1	7.4	7.4	7.4	7.4					2	5.3	6.2	5.75	5.75
4,4'-DDE	µg/kg	dw	1	6.5	6.5	6.5	6.5					2	5.3	6.2	5.75	5.75
4,4'-DDT	µg/kg	dw	1	9.1	9.1	9.1	9.1					2	5.3	6.2	5.75	5.75
Aldrin	µg/kg	dw	0									3	2.7	3.2	3.03	3.2
alpha-BHC	µg/kg	dw	0									3	2.7	3.2	3.03	3.2
alpha-Chlordane	µg/kg	dw	1	7.5	7.5	7.5	7.5					2	2.7	3.2	2.95	2.95
beta-BHC	µg/kg	dw	0									3	2.7	3.2	3.03	3.2
delta-BHC	µg/kg	dw	0									3	2.7	3.2	3.03	3.2
Dieldrin	µg/kg	dw	0									3	5.3	6.2	5.9	6.2
Endosulfan I	µg/kg	dw	0									3	2.7	3.2	3.03	3.2
Endosulfan II	µg/kg	dw	0									3	5.3	6.2	5.9	6.2
Endosulfan sulfate	µg/kg	dw	0									3	5.3	6.2	5.9	6.2
Endrin	µg/kg	dw	1	3.9	3.9	3.9	3.9					2	5.3	6.2	5.75	5.75
Endrin aldehyde	µg/kg	dw	0									3	5.3	6.2	5.9	6.2
Endrin ketone	µg/kg	dw	0									3	5.3	6.2	5.9	6.2
gamma-BHC (Lindane)	µg/kg	dw	0									3	2.7	3.2	3.03	3.2
gamma-Chlordane	µg/kg	dw	2	2.8	7.3	5.05	5.05	3.18	2.25			1	2.7	2.7	2.7	2.7
Heptachlor	µg/kg	dw	0									3	2.7	3.2	3.03	3.2
Heptachlor epoxide	µg/kg	dw	1	2.3	2.3	2.3	2.3					2	2.7	3.2	2.95	2.95
Methoxychlor	µg/kg	dw	0									3	27	32	30.3	32
Toxaphene	µg/kg	dw	0									3	270	320	303	320
Aroclor 1016	µg/kg	dw	0									3	16	19	18	19
Aroclor 1221	µg/kg	dw	0									3	32	38	35.7	37
Aroclor 1232	µg/kg	dw	0									3	16	19	18	19
Aroclor 1242	µg/kg	dw	0									3	16	19	18	19
Aroclor 1248	µg/kg	dw	0									3	16	19	18	19
Aroclor 1254	µg/kg	dw	1	93	93	93	93					2	16	19	17.5	17.5
Aroclor 1260	µg/kg	dw	0									3	16	19	18	19
Aroclor 1268	µg/kg	dw	0									3	16	19	18	19
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	1	1.5	1.5	1.5	1.5					2	0.92	1.1	1.01	1.01
Total TCDDs	ng/kg	dw	2	0.89	2.88	1.89	1.89	1.41	1.00			1	1.3	1.3	1.3	1.3
1,2,3,7,8-PeCDD	ng/kg	dw	0									3	1.2	3.4	2.1	1.7
Total PeCDDs	ng/kg	dw	0									3	1.2	4.75	2.90	2.76
1,2,3,4,7,8-HxCDD	ng/kg	dw	1	7.86	7.86	7.86	7.86					2	1.3	1.6	1.45	1.45
1,2,3,6,7,8-HxCDD	ng/kg	dw	1	14.5	14.5	14.5	14.5					2	2.79	3.79	3.29	3.29
1,2,3,7,8,9-HxCDD	ng/kg	dw	1	20.1	20.1	20.1	20.1					2	2.19	4.13	3.16	3.16
Total HxCDDs	ng/kg	dw	3	11.5	124	50.4	15.8	63.7	36.8	1.72		0				
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	3	45.5	638	246	54.5	340	196	1.73		0				
Total HpCDDs	ng/kg	dw	3	79.2	1,160	446	99.5	618	357	1.73		0				

Table G1-46. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
OCDD	ng/kg	dw	3	378	15,900	5,578	456	8,939	5,161	1.73		0				
2,3,7,8-TCDF	ng/kg	dw	3	0.94	1.9	1.45	1.5	0.48	0.28	-0.49		0				
Total TCDFs	ng/kg	dw	3	5.85	16.4	10.5	9.3	5.38	3.11	0.97		0				
1,2,3,7,8-PeCDF	ng/kg	dw	0									3	1	2.09	1.46	1.3
2,3,4,7,8-PeCDF	ng/kg	dw	0									3	1.3	2.09	1.63	1.5
Total PeCDFs	ng/kg	dw	2	9.83	15.9	12.865	12.865	4.29	3.04			1	3.38	3.38	3.38	3.38
1,2,3,4,7,8-HxCDF	ng/kg	dw	0									3	1.1	4.87	2.46	1.4
1,2,3,6,7,8-HxCDF	ng/kg	dw	0									3	1.1	2.73	1.78	1.5
1,2,3,7,8,9-HxCDF	ng/kg	dw	0									3	0.23	1.3	0.88	1.1
2,3,4,6,7,8-HxCDF	ng/kg	dw	0									3	1.1	2	1.43	1.2
Total HxCDFs	ng/kg	dw	3	10.2	57.8	26.9	12.7	26.8	15.5	1.72		0				
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	3	14.2	79.8	37.2	17.7	36.9	21.3	1.71		0				
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	0									3	1.1	5.47	2.56	1.1
Total HpCDFs	ng/kg	dw	3	36.4	214	97.7	42.7	101	58.2	1.72		0				
OCDF	ng/kg	dw	3	35.6	231	102	40.4	111	64.3	1.73		0				

Table G1-47. Summary Statistics for Upper Geddes Brook Sediment Samples Collected in 1998 and 2001 by Honeywell/Exponent/BBL (15-45 cm)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Chloride (Measured)	mg/kg	dw	1	53.5	53.5	53.5	53.5					0				
Dry weight	µg/kg	dw	1	0.7	0.7	0.7	0.7					0				
Particles < 0.0012 mm	%	dw	1	14.7	14.7	14.7	14.7					0				
Particles < 0.0027 mm	%	dw	1	20.6	20.6	20.6	20.6					0				
Particles < 0.0057 mm	%	dw	1	27.5	27.5	27.5	27.5					0				
Particles < 0.0079 mm	%	dw	1	32.4	32.4	32.4	32.4					0				
Particles < 0.0108 mm	%	dw	1	38.3	38.3	38.3	38.3					0				
Particles < 0.0178 mm	%	dw	1	47.2	47.2	47.2	47.2					0				
Particles < 0.0276 mm	%	dw	1	56.1	56.1	56.1	56.1					0				
Particles < 0.074 mm (sieve #200)	%	dw	1	66.6	66.6	66.6	66.6					0				
Particles < 0.105 mm (sieve #140)	%	dw	1	72.9	72.9	72.9	72.9					0				
Particles < 0.250 mm (sieve #60)	%	dw	1	93.2	93.2	93.2	93.2					0				
Particles < 0.42 mm (sieve #40)	%	dw	1	96.5	96.5	96.5	96.5					0				
Particles < 0.84 mm (sieve #20)	%	dw	1	98.2	98.2	98.2	98.2					0				
Particles < 2.00 mm (sieve #10)	%	dw	1	99.3	99.3	99.3	99.3					0				
Particles < 4.75 mm (sieve #4)	%	dw	1	99.8	99.8	99.8	99.8					0				
Particles < 9.50 mm	%	dw	1	100	100	100	100					0				
Particles < 12.7 mm (1/2" sieve)	%	dw	1	100	100	100	100					0				
Particles < 19.0 mm	%	dw	1	100	100	100	100					0				
Particles < 25.4 mm (1" sieve)	%	dw	1	100	100	100	100					0				
Particles < 37.5 mm (1 1/2" sieve)	%	dw	1	100	100	100	100					0				
Particles < 50 mm (2" sieve)	%	dw	1	100	100	100	100					0				
Particles < 75 mm (3" sieve)	%	dw	1	100	100	100	100					0				
Particles < 150 mm (6" sieve)	%	dw	1	100	100	100	100					0				
Particles < 300 mm (12" sieve)	%	dw	1	100	100	100	100					0				
Percent clay	%	ww	1	17.7	17.7	17.7	17.7					0				
Percent gravel	%	dw	1	0.71	0.71	0.71	0.71					0				
Percent moisture	%	ww	1	39.8	39.8	39.8	39.8					0				
Percent sand	%	ww	1	37.3	37.3	37.3	37.3					0				
Percent silt	%	ww	1	44.3	44.3	44.3	44.3					0				
Total organic carbon	mg/kg	dw	4	9,180	33,100	16,588	12,035	11,257	5,629	1.75	3.04	0				
Total solids	%	ww	4	51.4	75.9	66	68.4	10.4	5.19	-1.26	2.35	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	1	6,890	6,890	6,890	6,890					0				
Antimony	mg/kg	dw	0									1	0.44	0.44	0.44	0.44
Arsenic	mg/kg	dw	1	3.4	3.4	3.4	3.4					0				
Barium	mg/kg	dw	1	52.3	52.3	52.3	52.3					0				

Table G1-47. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Beryllium	mg/kg	dw	0									1	0.31	0.31	0.31	0.31
Cadmium	mg/kg	dw	0									1	1.2	1.2	1.2	1.2
Calcium	mg/kg	dw	1	102,000	102,000	102,000	102,000					0				
Chromium	mg/kg	dw	1	14.8	14.8	14.8	14.8					0				
Cobalt	mg/kg	dw	1	6.3	6.3	6.3	6.3					0				
Copper	mg/kg	dw	1	22.6	22.6	22.6	22.6					0				
Cyanide	mg/kg	dw	0									1	3.6	3.6	3.6	3.6
Iron	mg/kg	dw	1	11,600	11,600	11,600	11,600					0				
Lead	mg/kg	dw	1	35.2	35.2	35.2	35.2					0				
Magnesium	mg/kg	dw	1	17,500	17,500	17,500	17,500					0				
Manganese	mg/kg	dw	1	303	303	303	303					0				
Methylmercury	µg/kg	dw	1	0.59	0.59	0.59	0.59					0				
Nickel	mg/kg	dw	1	14.8	14.8	14.8	14.8					0				
Potassium	mg/kg	dw	1	1,440	1,440	1,440	1440					0				
Selenium	mg/kg	dw	0									1	1.1	1.1	1.1	1.1
Silver	mg/kg	dw	0									1	0.87	0.87	0.87	0.87
Sodium	mg/kg	dw	1	319	319	319	319					0				
Thallium	mg/kg	dw	0									1	1.4	1.4	1.4	1.4
Total Mercury	mg/kg	dw	4	0.21	0.32	0.27	0.27	0.06	0.03	-0.03	-4.93	0				
Vanadium	mg/kg	dw	1	12.9	12.9	12.9	12.9					0				
Zinc	mg/kg	dw	1	221	221	221	221					0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									1	14	14	14	14
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									1	14	14	14	14
1,1,2-Trichloroethane	µg/kg	dw	0									1	14	14	14	14
1,1-Dichloroethane	µg/kg	dw	0									1	14	14	14	14
1,1-Dichloroethene	µg/kg	dw	0									1	14	14	14	14
1,2-Dichloroethane	µg/kg	dw	0									1	14	14	14	14
1,2-Dichloroethene (Total)	µg/kg	dw	0									1	14	14	14	14
1,2-Dichloropropane	µg/kg	dw	0									1	14	14	14	14
2-Butanone	µg/kg	dw	0									1	14	14	14	14
2-Hexanone	µg/kg	dw	0									1	14	14	14	14
4-Methyl-2-pentanone	µg/kg	dw	0									1	14	14	14	14
Acetone	µg/kg	dw	1	26	26	26	26					0				
Benzene	µg/kg	dw	0									1	14	14	14	14
Bromodichloromethane	µg/kg	dw	0									1	14	14	14	14
Bromoform	µg/kg	dw	0									1	14	14	14	14
Bromomethane	µg/kg	dw	0									1	14	14	14	14
Carbon disulfide	µg/kg	dw	0									1	14	14	14	14
Carbon Tetrachloride	µg/kg	dw	0									1	14	14	14	14
Chlorobenzene	µg/kg	dw	0									1	14	14	14	14
Chloroethane	µg/kg	dw	0									1	14	14	14	14

Table G1-47. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Chloroform	µg/kg	dw	0									1	14	14	14	14
Chloromethane	µg/kg	dw	0									1	14	14	14	14
cis-1,2-Dichloroethene	µg/kg	dw	0									0				
cis-1,3-Dichloropropene	µg/kg	dw	0									1	14	14	14	14
Dibromochloromethane	µg/kg	dw	0									1	14	14	14	14
Ethylbenzene	µg/kg	dw	0									1	14	14	14	14
Methylene chloride	µg/kg	dw	1	8.9	8.9	8.9	8.9					0				
Styrene	µg/kg	dw	0									1	14	14	14	14
Tetrachloroethene	µg/kg	dw	0									1	14	14	14	14
Toluene	µg/kg	dw	0									1	14	14	14	14
trans-1,2-Dichloroethene	µg/kg	dw	0									0				
trans-1,3-Dichloropropene	µg/kg	dw	0									1	14	14	14	14
Trichloroethene	µg/kg	dw	0									1	14	14	14	14
Vinyl chloride	µg/kg	dw	0									1	14	14	14	14
meta & para Xylenes	µg/kg	dw	0									0				
ortho-Xylene	µg/kg	dw	0									0				
Xylene (Total)	µg/kg	dw	0									1	14	14	14	14
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	0									1	480	480	480	480
1,2-Dichlorobenzene	µg/kg	dw	0									1	480	480	480	480
1,3-Dichlorobenzene	µg/kg	dw	0									1	480	480	480	480
1,4-Dichlorobenzene	µg/kg	dw	0									1	480	480	480	480
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									1	480	480	480	480
2,4,5-Trichlorophenol	µg/kg	dw	0									1	1,200	1,200	1,200	1,200
2,4,6-Trichlorophenol	µg/kg	dw	0									1	480	480	480	480
2,4-Dichlorophenol	µg/kg	dw	0									1	480	480	480	480
2,4-Dimethylphenol	µg/kg	dw	0									1	480	480	480	480
2,4-Dinitrophenol	µg/kg	dw	0									1	1,200	1,200	1,200	1,200
2,4-Dinitrotoluene	µg/kg	dw	0									1	480	480	480	480
2,6-Dinitrotoluene	µg/kg	dw	0									1	480	480	480	480
2-Chloronaphthalene	µg/kg	dw	0									1	480	480	480	480
2-Chlorophenol	µg/kg	dw	0									1	480	480	480	480
2-Methylphenol	µg/kg	dw	0									1	480	480	480	480
2-Nitroaniline	µg/kg	dw	0									1	1,200	1,200	1,200	1,200
2-Nitrophenol	µg/kg	dw	0									1	480	480	480	480
3,3'-Dichlorobenzidine	µg/kg	dw	0									1	480	480	480	480
3-Nitroaniline	µg/kg	dw	0									1	1,200	1,200	1,200	1,200
4,6-Dinitro-2-methylphenol	µg/kg	dw	0									1	1,200	1,200	1,200	1,200
4-Bromophenyl-phenyl ether	µg/kg	dw	0									1	480	480	480	480
4-Chloro-3-methylphenol	µg/kg	dw	0									1	480	480	480	480
4-Chloroaniline	µg/kg	dw	0									1	480	480	480	480
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									1	480	480	480	480

Table G1-47. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
4-Methylphenol	µg/kg	dw	0									1	480	480	480	480
4-Nitroaniline	µg/kg	dw	0									1	1,200	1,200	1,200	1,200
4-Nitrophenol	µg/kg	dw	0									1	1,200	1,200	1,200	1,200
Bis(2-chloroethoxy)methane	µg/kg	dw	0									1	480	480	480	480
Bis(2-chloroethyl)ether	µg/kg	dw	0									1	480	480	480	480
Bis(2-ethylhexyl)phthalate	µg/kg	dw	1	250	250	250	250					0				
Butylbenzylphthalate	µg/kg	dw	0									1	480	480	480	480
Carbazole	µg/kg	dw	0									1	480	480	480	480
Dibenzofuran	µg/kg	dw	0									1	480	480	480	480
Diethylphthalate	µg/kg	dw	0									1	480	480	480	480
Dimethylphthalate	µg/kg	dw	0									1	480	480	480	480
Di-n-butylphthalate	µg/kg	dw	1	94	94	94	94					0				
Di-n-octylphthalate	µg/kg	dw	0									1	480	480	480	480
Hexachlorobenzene	µg/kg	dw	0									1	480	480	480	480
Hexachlorobenzene (GC)	µg/kg	dw	0									1	4.8	4.8	4.8	4.8
Hexachlorobenzene (GC/ECD)	µg/kg	dw	0									0				
Hexachlorobenzene (MS)	µg/kg	dw	0									0				
Hexachlorobutadiene	µg/kg	dw	0									1	480	480	480	480
Hexachlorocyclopentadiene	µg/kg	dw	0									1	480	480	480	480
Hexachloroethane	µg/kg	dw	0									1	480	480	480	480
Isophorone	µg/kg	dw	0									1	480	480	480	480
Nitrobenzene	µg/kg	dw	0									1	480	480	480	480
N-nitroso-di-n-propylamine	µg/kg	dw	0									1	480	480	480	480
N-Nitrosodiphenylamine	µg/kg	dw	0									1	480	480	480	480
Pentachlorophenol	µg/kg	dw	0									1	1,200	1,200	1,200	1,200
Phenol	µg/kg	dw	0									1	480	480	480	480
2-Methylnaphthalene	µg/kg	dw	0									1	480	480	480	480
Acenaphthene	µg/kg	dw	0									1	480	480	480	480
Acenaphthylene	µg/kg	dw	0									1	480	480	480	480
Anthracene	µg/kg	dw	1	99	99	99	99					0				
Benzo(a)anthracene	µg/kg	dw	1	330	330	330	330					0				
Benzo(a)pyrene	µg/kg	dw	1	360	360	360	360					0				
Benzo(b)fluoranthene	µg/kg	dw	1	390	390	390	390					0				
Benzo(g,h,i)perylene	µg/kg	dw	1	97	97	97	97					0				
Benzo(k)fluoranthene	µg/kg	dw	1	360	360	360	360					0				
Chrysene	µg/kg	dw	1	420	420	420	420					0				
Dibenz(a,h)anthracene	µg/kg	dw	1	67	67	67	67					0				
Fluoranthene	µg/kg	dw	1	710	710	710	710					0				
Fluorene	µg/kg	dw	0									1	480	480	480	480
Indeno(1,2,3-cd)pyrene	µg/kg	dw	1	260	260	260	260					0				
Naphthalene	µg/kg	dw	0									1	480	480	480	480
Phenanthrene	µg/kg	dw	1	350	350	350	350					0				
Pyrene	µg/kg	dw	1	640	640	640	640					0				

Table G1-47. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	DETECTS Minimum Detection	DETECTS Maximum Detection	DETECTS Mean	DETECTS Median	DETECTS Standard Deviation	DETECTS Standard Error	DETECTS Skewness	DETECTS Kurtosis	NON-DETECTS N	NON-DETECTS Minimum Detection Limit	NON-DETECTS Maximum Detection Limit	NON-DETECTS Mean	NON-DETECTS Median
Pesticides/Polychlorinated Biphenyls																
4,4'-DDD	µg/kg	dw	1	2.5	2.5	2.5	2.5					0				
4,4'-DDE	µg/kg	dw	0									1	4.8	4.8	4.8	4.8
4,4'-DDT	µg/kg	dw	0									1	4.8	4.8	4.8	4.8
Aldrin	µg/kg	dw	0									1	2.5	2.5	2.5	2.5
alpha-BHC	µg/kg	dw	0									1	2.5	2.5	2.5	2.5
alpha-Chlordane	µg/kg	dw	0									1	2.5	2.5	2.5	2.5
beta-BHC	µg/kg	dw	0									1	2.5	2.5	2.5	2.5
delta-BHC	µg/kg	dw	0									1	2.5	2.5	2.5	2.5
Dieldrin	µg/kg	dw	0									1	4.8	4.8	4.8	4.8
Endosulfan I	µg/kg	dw	0									1	2.5	2.5	2.5	2.5
Endosulfan II	µg/kg	dw	0									1	4.8	4.8	4.8	4.8
Endosulfan sulfate	µg/kg	dw	0									1	4.8	4.8	4.8	4.8
Endrin	µg/kg	dw	0									1	4.8	4.8	4.8	4.8
Endrin aldehyde	µg/kg	dw	0									1	4.8	4.8	4.8	4.8
Endrin ketone	µg/kg	dw	0									1	4.8	4.8	4.8	4.8
gamma-BHC (Lindane)	µg/kg	dw	0									1	2.5	2.5	2.5	2.5
gamma-Chlordane	µg/kg	dw	1	1.4	1.4	1.4	1.4					0				
Heptachlor	µg/kg	dw	0									1	2.5	2.5	2.5	2.5
Heptachlor epoxide	µg/kg	dw	0									1	2.5	2.5	2.5	2.5
Methoxychlor	µg/kg	dw	0									1	25	25	25	25
Toxaphene	µg/kg	dw	0									1	250	250	250	250
Aroclor 1016	µg/kg	dw	0									1	14	14	14	14
Aroclor 1221	µg/kg	dw	0									1	29	29	29	29
Aroclor 1232	µg/kg	dw	0									1	14	14	14	14
Aroclor 1242	µg/kg	dw	0									1	14	14	14	14
Aroclor 1248	µg/kg	dw	0									1	14	14	14	14
Aroclor 1254	µg/kg	dw	1	45	45	45	45					0				
Aroclor 1260	µg/kg	dw	0									1	14	14	14	14
Aroclor 1268	µg/kg	dw	0									1	14	14	14	14
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	0									1	0.77	0.77	0.77	0.77
Total TCDDs	ng/kg	dw	1	2.7	2.7	2.7	2.7					0				
1,2,3,7,8-PeCDD	ng/kg	dw	0									1	1.4	1.4	1.4	1.4
Total PeCDDs	ng/kg	dw	0									1	2.46	2.46	2.46	2.46
1,2,3,4,7,8-HxCDD	ng/kg	dw	0									1	1.54	1.54	1.54	1.54
1,2,3,6,7,8-HxCDD	ng/kg	dw	0									1	3.28	3.28	3.28	3.28
1,2,3,7,8,9-HxCDD	ng/kg	dw	0									1	2.92	2.92	2.92	2.92
Total HxCDDs	ng/kg	dw	1	15.8	15.8	15.8	15.8					0				
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	1	53.8	53.8	53.8	53.8					0				
Total HpCDDs	ng/kg	dw	1	98.5	98.5	98.5	98.5					0				
OCDD	ng/kg	dw	1	453	453	453	453					0				
2,3,7,8-TCDF	ng/kg	dw	1	1.83	1.83	1.83	1.83					0				

Table G1-47. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Total TCDFs	ng/kg	dw	1	24.6	24.6	24.6	24.6					0				
1,2,3,7,8-PeCDF	ng/kg	dw	0									1	0.93	0.93	0.93	0.93
2,3,4,7,8-PeCDF	ng/kg	dw	0									1	1.2	1.2	1.2	1.2
Total PeCDFs	ng/kg	dw	1	12.9	12.9	12.9	12.9					0				
1,2,3,4,7,8-HxCDF	ng/kg	dw	0									1	2.72	2.72	2.72	2.72
1,2,3,6,7,8-HxCDF	ng/kg	dw	0									1	1.59	1.59	1.59	1.59
1,2,3,7,8,9-HxCDF	ng/kg	dw	0									1	0.99	0.99	0.99	0.99
2,3,4,6,7,8-HxCDF	ng/kg	dw	0									1	0.85	0.85	0.85	0.85
Total HxCDFs	ng/kg	dw	1	14.1	14.1	14.1	14.1					0				
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	1	16.5	16.5	16.5	16.5					0				
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	0									1	1.4	1.4	1.4	1.4
Total HpCDFs	ng/kg	dw	1	46.3	46.3	46.3	46.3					0				
OCDF	ng/kg	dw	1	42.2	42.2	42.2	42.2					0				

Table G1-48. Summary Statistics for Upper Geddes Brook Sediment Samples Collected in 1998 and 2001 by Honeywell/Exponent/BBL (45-75 cm)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Chloride (Measured)	mg/kg	dw	1	41.5	41.5	41.5	41.5					0				
Dry weight	µg/kg	dw	1	0.73	0.73	0.73	0.73					0				
Particles < 0.0012 mm	%	dw	1	17.8	17.8	17.8	17.8					0				
Particles < 0.0027 mm	%	dw	1	23.8	23.8	23.8	23.8					0				
Particles < 0.0057 mm	%	dw	1	30.9	30.9	30.9	30.9					0				
Particles < 0.0079 mm	%	dw	1	35.7	35.7	35.7	35.7					0				
Particles < 0.0108 mm	%	dw	1	41.7	41.7	41.7	41.7					0				
Particles < 0.0178 mm	%	dw	1	51.2	51.2	51.2	51.2					0				
Particles < 0.0276 mm	%	dw	1	58.4	58.4	58.4	58.4					0				
Particles < 0.074 mm (sieve #200)	%	dw	1	72.4	72.4	72.4	72.4					0				
Particles < 0.105 mm (sieve #140)	%	dw	1	79.7	79.7	79.7	79.7					0				
Particles < 0.250 mm (sieve #60)	%	dw	1	95.9	95.9	95.9	95.9					0				
Particles < 0.42 mm (sieve #40)	%	dw	1	97.3	97.3	97.3	97.3					0				
Particles < 0.84 mm (sieve #20)	%	dw	1	98.4	98.4	98.4	98.4					0				
Particles < 2.00 mm (sieve #10)	%	dw	1	99.4	99.4	99.4	99.4					0				
Particles < 4.75 mm (sieve #4)	%	dw	1	99.9	99.9	99.9	99.9					0				
Particles < 9.50 mm	%	dw	1	100	100	100	100					0				
Particles < 12.7 mm (1/2" sieve)	%	dw	1	100	100	100	100					0				
Particles < 19.0 mm	%	dw	1	100	100	100	100					0				
Particles < 25.4 mm (1" sieve)	%	dw	1	100	100	100	100					0				
Particles < 37.5 mm (1 1/2" sieve)	%	dw	1	100	100	100	100					0				
Particles < 50 mm (2" sieve)	%	dw	1	100	100	100	100					0				
Particles < 75 mm (3" sieve)	%	dw	1	100	100	100	100					0				
Particles < 150 mm (6" sieve)	%	dw	1	100	100	100	100					0				
Particles < 300 mm (12" sieve)	%	dw	1	100	100	100	100					0				
Percent clay	%	ww	1	20.8	20.8	20.8	20.8					0				
Percent gravel	%	dw	1	0.57	0.57	0.57	0.57					0				
Percent moisture	%	ww	1	38.2	38.2	38.2	38.2					0				
Percent sand	%	ww	1	33.3	33.3	33.3	33.3					0				
Percent silt	%	ww	1	45.3	45.3	45.3	45.3					0				
Total organic carbon	mg/kg	dw	5	4,580	17,400	12,656	13,000	5,083	2,273	-1.15	1.32	0				
Total solids	%	ww	5	64.7	78.0	68.9	65.4	5.81	2.60	1.23	0.22	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	1	8,340	8,340	8,340	8,340					0				
Antimony	mg/kg	dw	0									1	0.38	0.38	0.38	0.38
Arsenic	mg/kg	dw	1	2.7	2.7	2.7	2.7					0				
Barium	mg/kg	dw	1	47	47	47	47					0				

Table G1-48. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Beryllium	mg/kg	dw	0									1	0.35	0.35	0.35	0.35
Cadmium	mg/kg	dw	0									1	1.2	1.2	1.2	1.2
Calcium	mg/kg	dw	1	61,000	61,000	61,000	61,000					0				
Chromium	mg/kg	dw	1	14.1	14.1	14.1	14.1					0				
Cobalt	mg/kg	dw	1	6.4	6.4	6.4	6.4					0				
Copper	mg/kg	dw	1	18.9	18.9	18.9	18.9					0				
Cyanide	mg/kg	dw	0									1	3.5	3.5	3.5	3.5
Iron	mg/kg	dw	1	11,800	11,800	11,800	11,800					0				
Lead	mg/kg	dw	1	25.1	25.1	25.1	25.1					0				
Magnesium	mg/kg	dw	1	12,000	12,000	12,000	12,000					0				
Manganese	mg/kg	dw	1	258	258	258	258					0				
Methylmercury	µg/kg	dw	1	0.27	0.27	0.27	0.27					0				
Nickel	mg/kg	dw	1	13.4	13.4	13.4	13.4					0				
Potassium	mg/kg	dw	1	1,930	1,930	1,930	1,930					0				
Selenium	mg/kg	dw	0									1	1	1	1	1
Silver	mg/kg	dw	0									1	0.84	0.84	0.84	0.84
Sodium	mg/kg	dw	1	237	237	237	237					0				
Thallium	mg/kg	dw	0									1	1.3	1.3	1.3	1.3
Total Mercury	mg/kg	dw	5	0.21	0.37	0.30	0.29	0.07	0.03	-0.21	-1.61	0				
Vanadium	mg/kg	dw	1	15.5	15.5	15.5	15.5					0				
Zinc	mg/kg	dw	1	161	161	161	161					0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									1	14	14	14	14
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									1	14	14	14	14
1,1,2-Trichloroethane	µg/kg	dw	0									1	14	14	14	14
1,1-Dichloroethane	µg/kg	dw	0									1	14	14	14	14
1,1-Dichloroethene	µg/kg	dw	0									1	14	14	14	14
1,2-Dichloroethane	µg/kg	dw	0									1	14	14	14	14
1,2-Dichloroethene (Total)	µg/kg	dw	0									1	14	14	14	14
1,2-Dichloropropane	µg/kg	dw	0									1	14	14	14	14
2-Butanone	µg/kg	dw	0									1	14	14	14	14
2-Hexanone	µg/kg	dw	0									1	14	14	14	14
4-Methyl-2-pentanone	µg/kg	dw	0									1	14	14	14	14
Acetone	µg/kg	dw	1	36	36	36	36					0				
Benzene	µg/kg	dw	0									1	14	14	14	14
Bromodichloromethane	µg/kg	dw	0									1	14	14	14	14
Bromoform	µg/kg	dw	0									1	14	14	14	14
Bromomethane	µg/kg	dw	0									1	14	14	14	14
Carbon disulfide	µg/kg	dw	0									1	14	14	14	14
Carbon Tetrachloride	µg/kg	dw	0									1	14	14	14	14
Chlorobenzene	µg/kg	dw	0									1	14	14	14	14
Chloroethane	µg/kg	dw	0									1	14	14	14	14

Table G1-48. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Chloroform	µg/kg	dw	0									1	14	14	14	14
Chloromethane	µg/kg	dw	0									1	14	14	14	14
cis-1,2-Dichloroethene	µg/kg	dw	0									0				
cis-1,3-Dichloropropene	µg/kg	dw	0									1	14	14	14	14
Dibromochloromethane	µg/kg	dw	0									1	14	14	14	14
Ethylbenzene	µg/kg	dw	0									1	14	14	14	14
Methylene chloride	µg/kg	dw	1	8.8	8.8	8.8	8.8					0				
Styrene	µg/kg	dw	0									1	14	14	14	14
Tetrachloroethene	µg/kg	dw	0									1	14	14	14	14
Toluene	µg/kg	dw	0									1	14	14	14	14
trans-1,2-Dichloroethene	µg/kg	dw	0									0				
trans-1,3-Dichloropropene	µg/kg	dw	0									1	14	14	14	14
Trichloroethene	µg/kg	dw	0									1	14	14	14	14
Vinyl chloride	µg/kg	dw	0									1	14	14	14	14
meta & para Xylenes	µg/kg	dw	0									0				
ortho-Xylene	µg/kg	dw	0									0				
Xylene (Total)	µg/kg	dw	0									1	14	14	14	14
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	0									1	460	460	460	460
1,2-Dichlorobenzene	µg/kg	dw	0									1	460	460	460	460
1,3-Dichlorobenzene	µg/kg	dw	0									1	460	460	460	460
1,4-Dichlorobenzene	µg/kg	dw	0									1	460	460	460	460
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									1	460	460	460	460
2,4,5-Trichlorophenol	µg/kg	dw	0									1	1,200	1,200	1,200	1,200
2,4,6-Trichlorophenol	µg/kg	dw	0									1	460	460	460	460
2,4-Dichlorophenol	µg/kg	dw	0									1	460	460	460	460
2,4-Dimethylphenol	µg/kg	dw	0									1	460	460	460	460
2,4-Dinitrophenol	µg/kg	dw	0									1	1,200	1,200	1,200	1,200
2,4-Dinitrotoluene	µg/kg	dw	0									1	460	460	460	460
2,6-Dinitrotoluene	µg/kg	dw	0									1	460	460	460	460
2-Chloronaphthalene	µg/kg	dw	0									1	460	460	460	460
2-Chlorophenol	µg/kg	dw	0									1	460	460	460	460
2-Methylphenol	µg/kg	dw	0									1	460	460	460	460
2-Nitroaniline	µg/kg	dw	0									1	1,200	1,200	1,200	1,200
2-Nitrophenol	µg/kg	dw	0									1	460	460	460	460
3,3'-Dichlorobenzidine	µg/kg	dw	0									1	460	460	460	460
3-Nitroaniline	µg/kg	dw	0									1	1,200	1,200	1,200	1,200
4,6-Dinitro-2-methylphenol	µg/kg	dw	0									1	1,200	1,200	1,200	1,200
4-Bromophenyl-phenyl ether	µg/kg	dw	0									1	460	460	460	460
4-Chloro-3-methylphenol	µg/kg	dw	0									1	460	460	460	460
4-Chloroaniline	µg/kg	dw	0									1	460	460	460	460
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									1	460	460	460	460

Table G1-48. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
4-Methylphenol	µg/kg	dw	0									1	460	460	460	460
4-Nitroaniline	µg/kg	dw	0									1	1,200	1,200	1,200	1,200
4-Nitrophenol	µg/kg	dw	0									1	1,200	1,200	1,200	1,200
Bis(2-chloroethoxy)methane	µg/kg	dw	0									1	460	460	460	460
Bis(2-chloroethyl)ether	µg/kg	dw	0									1	460	460	460	460
Bis(2-ethylhexyl)phthalate	µg/kg	dw	1	200	200	200	200					0				
Butylbenzylphthalate	µg/kg	dw	0									1	460	460	460	460
Carbazole	µg/kg	dw	0									1	460	460	460	460
Dibenzofuran	µg/kg	dw	0									1	460	460	460	460
Diethylphthalate	µg/kg	dw	0									1	460	460	460	460
Dimethylphthalate	µg/kg	dw	0									1	460	460	460	460
Di-n-butylphthalate	µg/kg	dw	1	87	87	87	87					0				
Di-n-octylphthalate	µg/kg	dw	0									1	460	460	460	460
Hexachlorobenzene	µg/kg	dw	0									1	460	460	460	460
Hexachlorobenzene (GC)	µg/kg	dw	0									1	4.6	4.6	4.6	4.6
Hexachlorobenzene (GC/ECD)	µg/kg	dw	0									0				
Hexachlorobenzene (MS)	µg/kg	dw	0									0				
Hexachlorobutadiene	µg/kg	dw	0									1	460	460	460	460
Hexachlorocyclopentadiene	µg/kg	dw	0									1	460	460	460	460
Hexachloroethane	µg/kg	dw	0									1	460	460	460	460
Isophorone	µg/kg	dw	0									1	460	460	460	460
Nitrobenzene	µg/kg	dw	0									1	460	460	460	460
N-nitroso-di-n-propylamine	µg/kg	dw	0									1	460	460	460	460
N-Nitrosodiphenylamine	µg/kg	dw	0									1	460	460	460	460
Pentachlorophenol	µg/kg	dw	0									1	1,200	1,200	1,200	1,200
Phenol	µg/kg	dw	0									1	460	460	460	460
2-Methylnaphthalene	µg/kg	dw	0									1	460	460	460	460
Acenaphthene	µg/kg	dw	0									1	460	460	460	460
Acenaphthylene	µg/kg	dw	0									1	460	460	460	460
Anthracene	µg/kg	dw	1	57	57	57	57					0				
Benzo(a)anthracene	µg/kg	dw	1	150	150	150	150					0				
Benzo(a)pyrene	µg/kg	dw	1	150	150	150	150					0				
Benzo(b)fluoranthene	µg/kg	dw	1	150	150	150	150					0				
Benzo(g,h,i)perylene	µg/kg	dw	0									1	460	460	460	460
Benzo(k)fluoranthene	µg/kg	dw	1	150	150	150	150					0				
Chrysene	µg/kg	dw	1	180	180	180	180					0				
Dibenz(a,h)anthracene	µg/kg	dw	0									1	460	460	460	460
Fluoranthene	µg/kg	dw	1	320	320	320	320					0				
Fluorene	µg/kg	dw	0									1	460	460	460	460
Indeno(1,2,3-cd)pyrene	µg/kg	dw	1	120	120	120	120					0				
Naphthalene	µg/kg	dw	0									1	460	460	460	460
Phenanthrene	µg/kg	dw	1	200	200	200	200					0				

Table G1-48. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Pyrene	µg/kg	dw	1	310	310	310	310					0				
Pesticides/Polychlorinated Biphenyls																
4,4'-DDD	µg/kg	dw	1	2.4	2.4	2.4	2.4					0				
4,4'-DDE	µg/kg	dw	0									1	4.6	4.6	4.6	4.6
4,4'-DDT	µg/kg	dw	0									1	4.6	4.6	4.6	4.6
Aldrin	µg/kg	dw	0									1	2.4	2.4	2.4	2.4
alpha-BHC	µg/kg	dw	0									1	2.4	2.4	2.4	2.4
alpha-Chlordane	µg/kg	dw	0									1	2.4	2.4	2.4	2.4
beta-BHC	µg/kg	dw	0									1	2.4	2.4	2.4	2.4
delta-BHC	µg/kg	dw	0									1	2.4	2.4	2.4	2.4
Dieldrin	µg/kg	dw	0									1	4.6	4.6	4.6	4.6
Endosulfan I	µg/kg	dw	0									1	2.4	2.4	2.4	2.4
Endosulfan II	µg/kg	dw	0									1	4.6	4.6	4.6	4.6
Endosulfan sulfate	µg/kg	dw	0									1	4.6	4.6	4.6	4.6
Endrin	µg/kg	dw	0									1	4.6	4.6	4.6	4.6
Endrin aldehyde	µg/kg	dw	0									1	4.6	4.6	4.6	4.6
Endrin ketone	µg/kg	dw	0									1	4.6	4.6	4.6	4.6
gamma-BHC (Lindane)	µg/kg	dw	0									1	2.4	2.4	2.4	2.4
gamma-Chlordane	µg/kg	dw	0									1	2.4	2.4	2.4	2.4
Heptachlor	µg/kg	dw	0									1	2.4	2.4	2.4	2.4
Heptachlor epoxide	µg/kg	dw	0									1	2.4	2.4	2.4	2.4
Methoxychlor	µg/kg	dw	0									1	24	24	24	24
Toxaphene	µg/kg	dw	0									1	240	240	240	240
Aroclor 1016	µg/kg	dw	0									1	14	14	14	14
Aroclor 1221	µg/kg	dw	0									1	28	28	28	28
Aroclor 1232	µg/kg	dw	0									1	14	14	14	14
Aroclor 1242	µg/kg	dw	0									1	14	14	14	14
Aroclor 1248	µg/kg	dw	0									1	14	14	14	14
Aroclor 1254	µg/kg	dw	1	30	30	30	30					0				
Aroclor 1260	µg/kg	dw	0									1	14	14	14	14
Aroclor 1268	µg/kg	dw	0									1	14	14	14	14
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	0									1	0.52	0.52	0.52	0.52
Total TCDDs	ng/kg	dw	1	1.2	1.2	1.2	1.2					0				
1,2,3,7,8-PeCDD	ng/kg	dw	0									1	0.73	0.73	0.73	0.73
Total PeCDDs	ng/kg	dw	0									1	3.52	3.52	3.52	3.52
1,2,3,4,7,8-HxCDD	ng/kg	dw	0									1	0.72	0.72	0.72	0.72
1,2,3,6,7,8-HxCDD	ng/kg	dw	0									1	2.66	2.66	2.66	2.66
1,2,3,7,8,9-HxCDD	ng/kg	dw	0									1	1.95	1.95	1.95	1.95
Total HxCDDs	ng/kg	dw	1	16.4	16.4	16.4	16.4					0				
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	1	35.5	35.5	35.5	35.5					0				
Total HpCDDs	ng/kg	dw	1	74	74	74	74					0				

Table G1-48. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
OCDD	ng/kg	dw	1	310	310	310	310					0				
2,3,7,8-TCDF	ng/kg	dw	1	2.77	2.77	2.77	2.77					0				
Total TCDFs	ng/kg	dw	1	32.2	32.2	32.2	32.2					0				
1,2,3,7,8-PeCDF	ng/kg	dw	0									1	1.1	1.1	1.1	1.1
2,3,4,7,8-PeCDF	ng/kg	dw	0									1	1.5	1.5	1.5	1.5
Total PeCDFs	ng/kg	dw	1	15.5	15.5	15.5	15.5					0				
1,2,3,4,7,8-HxCDF	ng/kg	dw	0									1	2.72	2.72	2.72	2.72
1,2,3,6,7,8-HxCDF	ng/kg	dw	0									1	1.2	1.2	1.2	1.2
1,2,3,7,8,9-HxCDF	ng/kg	dw	0									1	0.14	0.14	0.14	0.14
2,3,4,6,7,8-HxCDF	ng/kg	dw	0									1	0.66	0.66	0.66	0.66
Total HxCDFs	ng/kg	dw	1	13.7	13.7	13.7	13.7					0				
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	1	9.98	9.98	9.98	9.98					0				
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	0									1	1.4	1.4	1.4	1.4
Total HpCDFs	ng/kg	dw	1	32.1	32.1	32.1	32.1					0				
OCDF	ng/kg	dw	1	25	25	25	25					0				

Table G1-49. Summary Statistics for Upper Geddes Brook Sediment Samples Collected in 1998 and 2001 by Honeywell/Exponent/BBL (75-105 cm)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Chloride (Measured)	mg/kg	dw	1	38.8	38.8	38.8	38.8					0				
Dry weight	µg/kg	dw	1	0.77	0.77	0.77	0.77					0				
Particles < 0.0012 mm	%	dw	0									0				
Particles < 0.0027 mm	%	dw	0									0				
Particles < 0.0057 mm	%	dw	0									0				
Particles < 0.0079 mm	%	dw	0									0				
Particles < 0.0108 mm	%	dw	0									0				
Particles < 0.0178 mm	%	dw	0									0				
Particles < 0.0276 mm	%	dw	0									0				
Particles < 0.074 mm (sieve #200)	%	dw	0									0				
Particles < 0.105 mm (sieve #140)	%	dw	0									0				
Particles < 0.250 mm (sieve #60)	%	dw	0									0				
Particles < 0.42 mm (sieve #40)	%	dw	0									0				
Particles < 0.84 mm (sieve #20)	%	dw	0									0				
Particles < 2.00 mm (sieve #10)	%	dw	0									0				
Particles < 4.75 mm (sieve #4)	%	dw	0									0				
Particles < 9.50 mm	%	dw	0									0				
Particles < 12.7 mm (1/2" sieve)	%	dw	0									0				
Particles < 19.0 mm	%	dw	0									0				
Particles < 25.4 mm (1" sieve)	%	dw	0									0				
Particles < 37.5 mm (1 1/2" sieve)	%	dw	0									0				
Particles < 50 mm (2" sieve)	%	dw	0									0				
Particles < 75 mm (3" sieve)	%	dw	0									0				
Particles < 150 mm (6" sieve)	%	dw	0									0				
Particles < 300 mm (12" sieve)	%	dw	0									0				
Percent clay	%	ww	0									0				
Percent gravel	%	dw	0									0				
Percent moisture	%	ww	0									0				
Percent sand	%	ww	0									0				
Percent silt	%	ww	0									0				
Total organic carbon	mg/kg	dw	3	6,340	9,540	8,357	9,190	1,755	1,013	-1.65		0				
Total solids	%	ww	3	72.5	76.9	74.9	75.3	2.23	1.29	-0.78		0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	1	8,480	8,480	8,480	8,480					0				
Antimony	mg/kg	dw	0									1	0.73	0.73	0.73	0.73
Arsenic	mg/kg	dw	1	3.6	3.6	3.6	3.6					0				
Barium	mg/kg	dw	1	50.6	50.6	50.6	50.6					0				

Table G1-49. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Beryllium	mg/kg	dw	0									1	0.37	0.37	0.37	0.37
Cadmium	mg/kg	dw	0									1	1.1	1.1	1.1	1.1
Calcium	mg/kg	dw	1	41,900	41,900	41,900	41,900					0				
Chromium	mg/kg	dw	1	13.6	13.6	13.6	13.6					0				
Cobalt	mg/kg	dw	1	8.4	8.4	8.4	8.4					0				
Copper	mg/kg	dw	1	18	18	18	18					0				
Cyanide	mg/kg	dw	0									1	3.3	3.3	3.3	3.3
Iron	mg/kg	dw	1	13,700	13,700	13,700	13,700					0				
Lead	mg/kg	dw	1	14.8	14.8	14.8	14.8					0				
Magnesium	mg/kg	dw	1	9,490	9,490	9,490	9,490					0				
Manganese	mg/kg	dw	1	284	284	284	284					0				
Methylmercury	µg/kg	dw	1	0.35	0.35	0.35	0.35					0				
Nickel	mg/kg	dw	1	15	15	15	15					0				
Potassium	mg/kg	dw	1	1,730	1,730	1,730	1,730					0				
Selenium	mg/kg	dw	0									1	0.97	0.97	0.97	0.97
Silver	mg/kg	dw	0									1	0.8	0.8	0.8	0.8
Sodium	mg/kg	dw	1	218	218	218	218					0				
Thallium	mg/kg	dw	0									1	1.2	1.2	1.2	1.2
Total Mercury	mg/kg	dw	3	0.11	0.42	0.26	0.26	0.15	0.09	0.13		0				
Vanadium	mg/kg	dw	1	16.9	16.9	16.9	16.9					0				
Zinc	mg/kg	dw	1	97.6	97.6	97.6	97.6					0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									1	13	13	13	13
1,1,2,2-Tetrachloroethane	µg/kg	dw	0	.								1	.	13	13	13
1,1,2-Trichloroethane	µg/kg	dw	0									1	13	13	13	13
1,1-Dichloroethane	µg/kg	dw	0									1	13	13	13	13
1,1-Dichloroethene	µg/kg	dw	0									1	13	13	13	13
1,2-Dichloroethane	µg/kg	dw	0									1	13	13	13	13
1,2-Dichloroethene (Total)	µg/kg	dw	0									1	13	13	13	13
1,2-Dichloropropane	µg/kg	dw	0									1	13	13	13	13
2-Butanone	µg/kg	dw	0									1	13	13	13	13
2-Hexanone	µg/kg	dw	0									1	13	13	13	13
4-Methyl-2-pentanone	µg/kg	dw	0									1	13	13	13	13
Acetone	µg/kg	dw	1	27	27	27	27					0				
Benzene	µg/kg	dw	0									1	13	13	13	13
Bromodichloromethane	µg/kg	dw	0									1	13	13	13	13
Bromoform	µg/kg	dw	0									1	13	13	13	13
Bromomethane	µg/kg	dw	0									1	13	13	13	13
Carbon disulfide	µg/kg	dw	0									1	13	13	13	13
Carbon Tetrachloride	µg/kg	dw	0									1	13	13	13	13
Chlorobenzene	µg/kg	dw	0									1	13	13	13	13
Chloroethane	µg/kg	dw	0									1	13	13	13	13

Table G1-49. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Chloroform	µg/kg	dw	0									1	13	13	13	13
Chloromethane	µg/kg	dw	0									1	13	13	13	13
cis-1,2-Dichloroethene	µg/kg	dw	0									0				
cis-1,3-Dichloropropene	µg/kg	dw	0									1	13	13	13	13
Dibromochloromethane	µg/kg	dw	0									1	13	13	13	13
Ethylbenzene	µg/kg	dw	0									1	13	13	13	13
Methylene chloride	µg/kg	dw	1	8.5	8.5	8.5	8.5					0				
Styrene	µg/kg	dw	0									1	13	13	13	13
Tetrachloroethene	µg/kg	dw	0									1	13	13	13	13
Toluene	µg/kg	dw	0									1	13	13	13	13
trans-1,2-Dichloroethene	µg/kg	dw	0									0				
trans-1,3-Dichloropropene	µg/kg	dw	0									1	13	13	13	13
Trichloroethene	µg/kg	dw	0									1	13	13	13	13
Vinyl chloride	µg/kg	dw	0									1	13	13	13	13
meta & para Xylenes	µg/kg	dw	0									0				
ortho-Xylene	µg/kg	dw	0									0				
Xylene (Total)	µg/kg	dw	0									1	13	13	13	13
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	0									1	440	440	440	440
1,2-Dichlorobenzene	µg/kg	dw	0									1	440	440	440	440
1,3-Dichlorobenzene	µg/kg	dw	0									1	440	440	440	440
1,4-Dichlorobenzene	µg/kg	dw	0									1	440	440	440	440
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									1	440	440	440	440
2,4,5-Trichlorophenol	µg/kg	dw	0									1	1,100	1,100	1,100	1,100
2,4,6-Trichlorophenol	µg/kg	dw	0									1	440	440	440	440
2,4-Dichlorophenol	µg/kg	dw	0									1	440	440	440	440
2,4-Dimethylphenol	µg/kg	dw	0									1	440	440	440	440
2,4-Dinitrophenol	µg/kg	dw	0									1	1,100	1,100	1,100	1,100
2,4-Dinitrotoluene	µg/kg	dw	0									1	440	440	440	440
2,6-Dinitrotoluene	µg/kg	dw	0									1	440	440	440	440
2-Chloronaphthalene	µg/kg	dw	0									1	440	440	440	440
2-Chlorophenol	µg/kg	dw	0									1	440	440	440	440
2-Methylphenol	µg/kg	dw	0									1	440	440	440	440
2-Nitroaniline	µg/kg	dw	0									1	1,100	1,100	1,100	1,100
2-Nitrophenol	µg/kg	dw	0									1	440	440	440	440
3,3'-Dichlorobenzidine	µg/kg	dw	0									1	440	440	440	440
3-Nitroaniline	µg/kg	dw	0									1	1,100	1,100	1,100	1,100
4,6-Dinitro-2-methylphenol	µg/kg	dw	0									1	1,100	1,100	1,100	1,100
4-Bromophenyl-phenyl ether	µg/kg	dw	0									1	440	440	440	440
4-Chloro-3-methylphenol	µg/kg	dw	0									1	440	440	440	440
4-Chloroaniline	µg/kg	dw	0									1	440	440	440	440
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									1	440	440	440	440

Table G1-49. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
4-Methylphenol	µg/kg	dw	0									1	440	440	440	440
4-Nitroaniline	µg/kg	dw	0									1	1,100	1,100	1,100	1,100
4-Nitrophenol	µg/kg	dw	0									1	1,100	1,100	1,100	1,100
Bis(2-chloroethoxy)methane	µg/kg	dw	0									1	440	440	440	440
Bis(2-chloroethyl)ether	µg/kg	dw	0									1	440	440	440	440
Bis(2-ethylhexyl)phthalate	µg/kg	dw	1	57	57	57	57					0				
Butylbenzylphthalate	µg/kg	dw	0									1	440	440	440	440
Carbazole	µg/kg	dw	0									1	440	440	440	440
Dibenzofuran	µg/kg	dw	0									1	440	440	440	440
Diethylphthalate	µg/kg	dw	0									1	440	440	440	440
Dimethylphthalate	µg/kg	dw	0									1	440	440	440	440
Di-n-butylphthalate	µg/kg	dw	1	74	74	74	74					0				
Di-n-octylphthalate	µg/kg	dw	0									1	440	440	440	440
Hexachlorobenzene	µg/kg	dw	0									1	440	440	440	440
Hexachlorobenzene (GC)	µg/kg	dw	0									1	4.4	4.4	4.4	4.4
Hexachlorobenzene (GC/ECD)	µg/kg	dw	0									0				
Hexachlorobenzene (MS)	µg/kg	dw	0									0				
Hexachlorobutadiene	µg/kg	dw	0									1	440	440	440	440
Hexachlorocyclopentadiene	µg/kg	dw	0									1	440	440	440	440
Hexachloroethane	µg/kg	dw	0									1	440	440	440	440
Isophorone	µg/kg	dw	0									1	440	440	440	440
Nitrobenzene	µg/kg	dw	0									1	440	440	440	440
N-nitroso-di-n-propylamine	µg/kg	dw	0									1	440	440	440	440
N-Nitrosodiphenylamine	µg/kg	dw	0									1	440	440	440	440
Pentachlorophenol	µg/kg	dw	0									1	1,100	1,100	1,100	1,100
Phenol	µg/kg	dw	0									1	440	440	440	440
2-Methylnaphthalene	µg/kg	dw	0									1	440	440	440	440
Acenaphthene	µg/kg	dw	0									1	440	440	440	440
Acenaphthylene	µg/kg	dw	0									1	440	440	440	440
Anthracene	µg/kg	dw	0									1	440	440	440	440
Benzo(a)anthracene	µg/kg	dw	1	80	80	80	80					0				
Benzo(a)pyrene	µg/kg	dw	1	82	82	82	82					0				
Benzo(b)fluoranthene	µg/kg	dw	1	86	86	86	86					0				
Benzo(g,h,i)perylene	µg/kg	dw	0									1	440	440	440	440
Benzo(k)fluoranthene	µg/kg	dw	1	88	88	88	88					0				
Chrysene	µg/kg	dw	1	97	97	97	97					0				
Dibenz(a,h)anthracene	µg/kg	dw	0									1	440	440	440	440
Fluoranthene	µg/kg	dw	1	190	190	190	190					0				
Fluorene	µg/kg	dw	0									1	440	440	440	440
Indeno(1,2,3-cd)pyrene	µg/kg	dw	1	61	61	61	61					0				
Naphthalene	µg/kg	dw	0									1	440	440	440	440
Phenanthrene	µg/kg	dw	1	69	69	69	69					0				

Table G1-49. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Pyrene	µg/kg	dw	1	190	190	190	190					0				
Pesticides/Polychlorinated Biphenyls																
4,4'-DDD	µg/kg	dw	0									1	4.4	4.4	4.4	4.4
4,4'-DDE	µg/kg	dw	0									1	4.4	4.4	4.4	4.4
4,4'-DDT	µg/kg	dw	0									1	4.4	4.4	4.4	4.4
Aldrin	µg/kg	dw	0									1	2.3	2.3	2.3	2.3
alpha-BHC	µg/kg	dw	0									1	2.3	2.3	2.3	2.3
alpha-Chlordane	µg/kg	dw	0									1	2.3	2.3	2.3	2.3
beta-BHC	µg/kg	dw	0									1	2.3	2.3	2.3	2.3
delta-BHC	µg/kg	dw	0									1	2.3	2.3	2.3	2.3
Dieldrin	µg/kg	dw	0									1	4.4	4.4	4.4	4.4
Endosulfan I	µg/kg	dw	0									1	2.3	2.3	2.3	2.3
Endosulfan II	µg/kg	dw	0									1	4.4	4.4	4.4	4.4
Endosulfan sulfate	µg/kg	dw	0									1	4.4	4.4	4.4	4.4
Endrin	µg/kg	dw	0									1	4.4	4.4	4.4	4.4
Endrin aldehyde	µg/kg	dw	0									1	4.4	4.4	4.4	4.4
Endrin ketone	µg/kg	dw	0									1	4.4	4.4	4.4	4.4
gamma-BHC (Lindane)	µg/kg	dw	0									1	2.3	2.3	2.3	2.3
gamma-Chlordane	µg/kg	dw	0									1	2.3	2.3	2.3	2.3
Heptachlor	µg/kg	dw	0									1	2.3	2.3	2.3	2.3
Heptachlor epoxide	µg/kg	dw	0									1	2.3	2.3	2.3	2.3
Methoxychlor	µg/kg	dw	0									1	23	23	23	23
Toxaphene	µg/kg	dw	0									1	230	230	230	230
Aroclor 1016	µg/kg	dw	0									1	13	13	13	13
Aroclor 1221	µg/kg	dw	0									1	27	27	27	27
Aroclor 1232	µg/kg	dw	0									1	13	13	13	13
Aroclor 1242	µg/kg	dw	0									1	13	13	13	13
Aroclor 1248	µg/kg	dw	0									1	13	13	13	13
Aroclor 1254	µg/kg	dw	1	21	21	21	21					0				
Aroclor 1260	µg/kg	dw	0									1	13	13	13	13
Aroclor 1268	µg/kg	dw	0									1	13	13	13	13
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	0									1	0.5	0.5	0.5	0.5
Total TCDDs	ng/kg	dw	0									1	0.5	0.5	0.5	0.5
1,2,3,7,8-PeCDD	ng/kg	dw	0									1	0.58	0.58	0.58	0.58
Total PeCDDs	ng/kg	dw	0									1	0.78	0.78	0.78	0.78
1,2,3,4,7,8-HxCDD	ng/kg	dw	0									1	0.42	0.42	0.42	0.42
1,2,3,6,7,8-HxCDD	ng/kg	dw	0									1	0.68	0.68	0.68	0.68
1,2,3,7,8,9-HxCDD	ng/kg	dw	0									1	0.62	0.62	0.62	0.62
Total HxCDDs	ng/kg	dw	0									1	2.23	2.23	2.23	2.23
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	1	10.7	10.7	10.7	10.7					0				
Total HpCDDs	ng/kg	dw	1	20.3	20.3	20.3	20.3					0				

Table G1-49. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
OCDD	ng/kg	dw	1	82	82	82	82					0				
2,3,7,8-TCDF	ng/kg	dw	0									1	1.1	1.1	1.1	1.1
Total TCDFs	ng/kg	dw	1	8.16	8.16	8.16	8.16					0				
1,2,3,7,8-PeCDF	ng/kg	dw	0									1	0.46	0.46	0.46	0.46
2,3,4,7,8-PeCDF	ng/kg	dw	0									1	0.5	0.5	0.5	0.5
Total PeCDFs	ng/kg	dw	0									1	2.66	2.66	2.66	2.66
1,2,3,4,7,8-HxCDF	ng/kg	dw	0									1	0.79	0.79	0.79	0.79
1,2,3,6,7,8-HxCDF	ng/kg	dw	0									1	0.36	0.36	0.36	0.36
1,2,3,7,8,9-HxCDF	ng/kg	dw	0									1	0.27	0.27	0.27	0.27
2,3,4,6,7,8-HxCDF	ng/kg	dw	0									1	0.24	0.24	0.24	0.24
Total HxCDFs	ng/kg	dw	0									1	2	2	2	2
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	0									1	3.18	3.18	3.18	3.18
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	0									1	0.4	0.4	0.4	0.4
Total HpCDFs	ng/kg	dw	1	7.12	7.12	7.12	7.12					0				
OCDF	ng/kg	dw	1	7.91	7.91	7.91	7.91					0				

Table G1-50. Summary Statistics for Lower Geddes Brook Sediment Samples Collected in 1998 and 2001 by Honeywell/Exponent/BBL (0-15 cm)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Chloride (Measured)	mg/kg	dw	3	256	3,240	1,263	292	1,713	989	1.73		0				
Dry weight	µg/kg	dw	3	0.47	0.59	0.54	0.55	0.06	0.04	-0.94		0				
Particles < 0.0012 mm	%	dw	3	4.1	6	5	4.9	0.95	0.55	0.47		0				
Particles < 0.0027 mm	%	dw	3	8.7	13.4	10.7	9.9	2.44	1.41	1.27		0				
Particles < 0.0057 mm	%	dw	3	13.7	30.6	20.8	18.2	8.75	5.05	1.23		0				
Particles < 0.0079 mm	%	dw	3	17.4	38.0	26.5	24.0	10.5	6.07	1.00		0				
Particles < 0.0108 mm	%	dw	3	20.5	50.3	33.5	29.8	15.2	8.80	1.04		0				
Particles < 0.0178 mm	%	dw	3	23	63.8	41.9	39.0	20.6	11.9	0.63		0				
Particles < 0.0276 mm	%	dw	3	28	71.2	47.4	43.1	21.9	12.7	0.85		0				
Particles < 0.074 mm (sieve #200)	%	dw	3	32.3	85.4	56.0	50.2	27.0	15.6	0.91		0				
Particles < 0.105 mm (sieve #140)	%	dw	3	34.0	89.3	58.7	52.7	28.1	16.2	0.92		0				
Particles < 0.250 mm (sieve #60)	%	dw	3	40.2	95.1	64.2	57.3	28.1	16.2	1.04		0				
Particles < 0.42 mm (sieve #40)	%	dw	3	43.5	96.5	67.7	63.0	26.8	15.5	0.76		0				
Particles < 0.84 mm (sieve #20)	%	dw	3	47.3	97.6	73.0	74.2	25.1	14.5	-0.21		0				
Particles < 2.00 mm (sieve #10)	%	dw	3	52.6	98.5	78.6	84.9	23.6	13.6	-1.11		0				
Particles < 4.75 mm (sieve #4)	%	dw	3	58.2	99.2	83.6	93.4	22.2	12.8	-1.60		0				
Particles < 9.50 mm	%	dw	3	63.2	100	87.1	98.0	20.7	11.9	-1.71		0				
Particles < 12.7 mm (1/2" sieve)	%	dw	3	68.7	100	89.1	98.6	17.7	10.2	-1.72		0				
Particles < 19.0 mm	%	dw	3	74.9	100	91.6	100	14.5	8.36	-1.73		0				
Particles < 25.4 mm (1" sieve)	%	dw	3	92.1	100	97.4	100	4.57	2.64	-1.73		0				
Particles < 37.5 mm (1 1/2" sieve)	%	dw	3	100	100	100	100	0	0			0				
Particles < 50 mm (2" sieve)	%	dw	3	100	100	100	100	0	0			0				
Particles < 75 mm (3" sieve)	%	dw	3	100	100	100	100	0	0			0				
Particles < 150 mm (6" sieve)	%	dw	3	100	100	100	100	0	0			0				
Particles < 300 mm (12" sieve)	%	dw	3	100	100	100	100	0	0			0				
Percent clay	%	ww	3	6.79	9.63	7.78	6.93	1.60	0.92	1.72		0				
Percent gravel	%	dw	3	1.55	47.5	21.4	15.1	23.6	13.6	1.11		0				
Percent moisture	%	ww	3	32	83.0	57.6	57.8	25.5	14.7	-0.04		0				
Percent sand	%	ww	3	19.2	37.8	26.4	22.2	9.98	5.76	1.56		0				
Percent silt	%	ww	3	23.6	69.6	44.4	40.2	23.3	13.5	0.80		0				
Total organic carbon	mg/kg	dw	13	4,770	44,200	21,132	18,500	13,359	3,705	0.71	-0.67	0				
Total solids	%	ww	13	51	73	59.5	60	7.13	1.98	0.57	-0.64	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	12	1,910	7,730	4,740	4,795	1,757	507	0.14	-0.73	0				
Antimony	mg/kg	dw	5	0.26	1.2	0.50	0.38	0.39	0.18	2.08	4.45	7	0.25	0.78	0.43	0.29
Arsenic	mg/kg	dw	12	3.4	6.6	4.44	4.40	1.07	0.31	0.82	-0.19	0				
Barium	mg/kg	dw	12	46.1	91.2	60.4	57.6	11.6	3.34	1.80	4.46	0				

Table G1-50. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Beryllium	mg/kg	dw	9	0.2	0.49	0.36	0.37	0.10	0.03	-0.62	-0.64	3	0.18	0.34	0.28	0.32
Cadmium	mg/kg	dw	7	0.08	0.46	0.17	0.12	0.13	0.05	2.36	5.81	5	0.04	1.7	0.96	1.4
Calcium	mg/kg	dw	12	128,000	397,000	216,750	215,500	74,598	21,535	1.20	2.03	0				
Chromium	mg/kg	dw	12	7.1	43.1	19.1	15.7	10.8	3.11	1.18	0.89	0				
Cobalt	mg/kg	dw	12	2.8	7.5	4.7	4.7	1.38	0.40	0.69	0.16	0				
Copper	mg/kg	dw	12	10.9	36.3	23.7	24.5	8.30	2.40	-0.06	-1.36	0				
Cyanide	mg/kg	dw	2	1.1	1.7	1.4	1.4	0.42	0.3			10	0.63	4.9	1.93	0.92
Iron	mg/kg	dw	12	5,550	18,100	10,083	9,495	3,619	1,045	0.80	0.65	0				
Lead	mg/kg	dw	12	17.8	114	36.4	26.5	26.4	7.64	2.64	7.75	0				
Magnesium	mg/kg	dw	12	5,480	28,800	14,978	13,700	6,125	1,768	0.84	1.35	0				
Manganese	mg/kg	dw	12	247	1,610	425	317	376	108	3.39	11.6	0				
Methylmercury	µg/kg	dw	12	0.62	4.83	2.91	3.32	1.61	0.46	-0.39	-1.58	0				
Nickel	mg/kg	dw	12	7.9	30.1	16.9	17.2	6.06	1.75	0.74	0.77	0				
Potassium	mg/kg	dw	12	468	1,590	998	993	445	129	0.21	-1.61	0				
Selenium	mg/kg	dw	6	0.38	1.3	0.63	0.49	0.36	0.15	1.76	3.07	6	0.26	1.4	0.81	0.78
Silver	mg/kg	dw	0									12	0.09	1.20	0.36	0.14
Sodium	mg/kg	dw	12	445	1,370	750	642	258	74.6	1.30	1.83	0				
Thallium	mg/kg	dw	2	0.69	0.82	0.76	0.76	0.09	0.07			10	0.56	1.8	0.96	0.7
Total Mercury	mg/kg	dw	13	0.41	15.7	2.62	1.10	4.02	1.11	3.34	11.6	0				
Vanadium	mg/kg	dw	12	5.6	19.9	11.5	12.3	3.98	1.15	0.39	0.51	0				
Zinc	mg/kg	dw	12	44.2	214	123	97.1	59.1	17.1	0.31	-1.57	0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									3	16	20	18	18
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									3	16	20	18	18
1,1,2-Trichloroethane	µg/kg	dw	0									3	16	20	18	18
1,1-Dichloroethane	µg/kg	dw	0									3	16	20	18	18
1,1-Dichloroethene	µg/kg	dw	0									3	16	20	18	18
1,2-Dichloroethane	µg/kg	dw	0									3	16	20	18	18
1,2-Dichloroethene (Total)	µg/kg	dw	0									3	16	20	18	18
1,2-Dichloropropane	µg/kg	dw	0									3	16	20	18	18
2-Butanone	µg/kg	dw	0									3	16	20	18	18
2-Hexanone	µg/kg	dw	0									3	16	20	18	18
4-Methyl-2-pentanone	µg/kg	dw	0									3	16	20	18	18
Acetone	µg/kg	dw	3	10	15	13	14	2.65	1.53	-1.46		0				
Benzene	µg/kg	dw	0									3	16	20	18	18
Bromodichloromethane	µg/kg	dw	0									3	16	20	18	18
Bromoform	µg/kg	dw	0									3	16	20	18	18
Bromomethane	µg/kg	dw	0									3	16	20	18	18
Carbon disulfide	µg/kg	dw	0									3	16	20	18	18
Carbon Tetrachloride	µg/kg	dw	0									3	16	20	18	18
Chlorobenzene	µg/kg	dw	0									3	16	20	18	18
Chloroethane	µg/kg	dw	0									3	16	20	18	18
Chloroform	µg/kg	dw	0									3	16	20	18	18
Chloromethane	µg/kg	dw	0									3	16	20	18	18

Table G1-50. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
cis-1,2-Dichloroethene	µg/kg	dw	0									0				
cis-1,3-Dichloropropene	µg/kg	dw	0									3	16	20	18	18
Dibromochloromethane	µg/kg	dw	0									3	16	20	18	18
Ethylbenzene	µg/kg	dw	0									3	16	20	18	18
Methylene chloride	µg/kg	dw	0									3	16	20	18	18
Styrene	µg/kg	dw	0									3	16	20	18	18
Tetrachloroethene	µg/kg	dw	0									3	16	20	18	18
Toluene	µg/kg	dw	0									3	16	20	18	18
trans-1,2-Dichloroethene	µg/kg	dw	0									0				
trans-1,3-Dichloropropene	µg/kg	dw	0									3	16	20	18	18
Trichloroethene	µg/kg	dw	0									3	16	20	18	18
Vinyl chloride	µg/kg	dw	0									3	16	20	18	18
meta & para Xylenes	µg/kg	dw	0									0				
ortho-Xylene	µg/kg	dw	0									0				
Xylene (Total)	µg/kg	dw	0									3	16	20	18	18
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	0									12	480	640	558	535
1,2-Dichlorobenzene	µg/kg	dw	2	110	170	140	140	42.4	30			10	510	640	569	545
1,3-Dichlorobenzene	µg/kg	dw	1	87	87	87	87					11	480	640	561	540
1,4-Dichlorobenzene	µg/kg	dw	2	230	370	300	300	99.0	70			10	510	640	569	545
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									12	480	640	558	535
2,4,5-Trichlorophenol	µg/kg	dw	0									12	1,100	1,600	1,350	1,300
2,4,6-Trichlorophenol	µg/kg	dw	0									12	480	640	558	535
2,4-Dichlorophenol	µg/kg	dw	0									12	480	640	558	535
2,4-Dimethylphenol	µg/kg	dw	0									12	480	640	558	535
2,4-Dinitrophenol	µg/kg	dw	0									12	1,100	1,600	1,350	1,300
2,4-Dinitrotoluene	µg/kg	dw	0									12	480	640	558	535
2,6-Dinitrotoluene	µg/kg	dw	0									12	480	640	558	535
2-Chloronaphthalene	µg/kg	dw	0									12	480	640	558	535
2-Chlorophenol	µg/kg	dw	0									12	480	640	558	535
2-Methylphenol	µg/kg	dw	0									12	480	640	558	535
2-Nitroaniline	µg/kg	dw	0									12	47	1,600	407	54
2-Nitrophenol	µg/kg	dw	0									12	480	640	558	535
3,3'-Dichlorobenzidine	µg/kg	dw	0									12	480	640	559	535
3-Nitroaniline	µg/kg	dw	0									12	1,100	1,600	1,350	1,300
4,6-Dinitro-2-methylphenol	µg/kg	dw	0									12	1,100	1,600	1,350	1,300
4-Bromophenyl-phenyl ether	µg/kg	dw	0									12	480	640	558	535
4-Chloro-3-methylphenol	µg/kg	dw	0									12	480	640	558	535
4-Chloroaniline	µg/kg	dw	0									12	480	640	558	535
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									12	480	640	558	535
4-Methylphenol	µg/kg	dw	2	130	210	170	170	56.6	40			10	480	640	561	530
4-Nitroaniline	µg/kg	dw	0									12	1,100	1,600	1,350	1,300
4-Nitrophenol	µg/kg	dw	0									12	1,100	1,600	1,350	1,300
Bis(2-chloroethoxy)methane	µg/kg	dw	0									12	480	640	558	535

Table G1-50. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Bis(2-chloroethyl)ether	µg/kg	dw	0									12	47	640	188	54
Bis(2-ethylhexyl)phthalate	µg/kg	dw	8	110	1,500	445	310	439	155	2.51	6.70	4	480	630	545	535
Butylbenzylphthalate	µg/kg	dw	0									12	480	640	558	535
Carbazole	µg/kg	dw	6	62	670	186	99	238	97.3	2.40	5.80	6	480	630	550	530
Dibenzofuran	µg/kg	dw	1	410	410	410	410					11	480	640	561	540
Diethylphthalate	µg/kg	dw	0									12	480	640	558	535
Dimethylphthalate	µg/kg	dw	0									12	480	640	558	535
Di-n-butylphthalate	µg/kg	dw	0									12	480	640	558	535
Di-n-octylphthalate	µg/kg	dw	0									12	480	640	558	535
Hexachlorobenzene	µg/kg	dw	1	940	940	940	940					2	520	610	565	565
Hexachlorobenzene (GC)	µg/kg	dw	3	19	570	212	48	310	179	1.72		0				
Hexachlorobenzene (GC/ECD)	µg/kg	dw	9	10	700	182	100	218	72.8	1.93	4.20	0				
Hexachlorobenzene (MS)	µg/kg	dw	6	68	1,300	456	190	514	210	1.19	-0.33	3	530	550	537	530
Hexachlorobutadiene	µg/kg	dw	0									12	480	640	558	535
Hexachlorocyclopentadiene	µg/kg	dw	0									12	480	640	558	535
Hexachloroethane	µg/kg	dw	0									12	480	640	558	535
Isophorone	µg/kg	dw	0									12	480	640	558	535
Nitrobenzene	µg/kg	dw	0									12	480	640	558	535
N-nitroso-di-n-propylamine	µg/kg	dw	0									12	47	640	188	54
N-Nitrosodiphenylamine	µg/kg	dw	0									12	480	640	558	535
Pentachlorophenol	µg/kg	dw	0									12	1,100	1,600	1,350	1,300
Phenol	µg/kg	dw	2	140	250	195	195	77.8	55			10	480	640	552	530
2-Methylnaphthalene	µg/kg	dw	1	130	130	130	130					11	480	640	561	540
Acenaphthene	µg/kg	dw	2	56	180	118	118	87.7	62			10	47	640	214.9	57.5
Acenaphthylene	µg/kg	dw	4	74	620	212	77.5	272	136	2.00	4.00	8	480	640	556	530
Anthracene	µg/kg	dw	8	64	1,600	318	170	521	184	2.77	7.77	4	47	62	53.25	52
Benzo(a)anthracene	µg/kg	dw	12	120	3,700	727	385	986	285	2.90	9.10	0				
Benzo(a)pyrene	µg/kg	dw	12	93	2,900	720.25	475	775	224	2.30	6.03	0				
Benzo(b)fluoranthene	µg/kg	dw	12	170	5,200	1,249	620	1,433	414	2.20	5.29	0				
Benzo(g,h,i)perylene	µg/kg	dw	11	54	580	239	180	173	52.1	0.88	-0.13	1	62	62	62	62
Benzo(k)fluoranthene	µg/kg	dw	12	64	1,700	467	460	442	128	2.12	5.82	0				
Chrysene	µg/kg	dw	12	120	3,100	797	590	817	236	2.30	6.14	0				
Dibenz(a,h)anthracene	µg/kg	dw	5	98	220	142	130	46.5	20.8	1.60	3.12	7	47	610	133	52
Fluoranthene	µg/kg	dw	12	190	7,600	1,525	860	2,039	588	2.78	8.49	0				
Fluorene	µg/kg	dw	3	58	960	362	68	518	299	1.73		9	47	640	233	62
Indeno(1,2,3-cd)pyrene	µg/kg	dw	11	54	670	299	290	206	62.2	0.50	-0.75	1	62	62	62	62
Naphthalene	µg/kg	dw	1	170	170	170	170					11	47	640	200	55
Phenanthrene	µg/kg	dw	12	80	6,300	897	395	1,721	497	3.33	11.3	0				
Pyrene	µg/kg	dw	12	170	6,500	1,365	675	1,759	508	2.61	7.52	0				
Pesticides/Polychlorinated Biphenyls																
4,4'-DDD	µg/kg	dw	0									12	4.8	54	11.1	5.8
4,4'-DDE	µg/kg	dw	2	0.67	7.9	4.29	4.29	5.11	3.62			10	4.8	54	11.2	5.8
4,4'-DDT	µg/kg	dw	4	0.48	5	2.67	2.6	2.47	1.23	0.02	-5.86	8	4.8	54	13.8	6.15
Aldrin	µg/kg	dw	0									12	2.4	27	5.56	2.95

Table G1-50. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
alpha-BHC	µg/kg	dw	0									12	2.4	27	5.56	2.95
alpha-Chlordane	µg/kg	dw	1	0.83	0.83	0.83	0.83					11	2.4	27	5.82	3.1
beta-BHC	µg/kg	dw	0									12	2.4	27	5.56	2.95
delta-BHC	µg/kg	dw	2	1.1	6.4	3.75	3.75	3.75	2.65			10	2.6	27	6.11	2.95
Dieldrin	µg/kg	dw	1	12	12	12	12					11	4.8	54	10.6	5.5
Endosulfan I	µg/kg	dw	0									12	2.4	27	5.56	2.95
Endosulfan II	µg/kg	dw	1	2.8	2.8	2.8	2.8					11	4.8	54	11.6	6.1
Endosulfan sulfate	µg/kg	dw	0									12	4.8	54	11.1	5.8
Endrin	µg/kg	dw	0									12	4.8	54	11.1	5.8
Endrin aldehyde	µg/kg	dw	0									12	4.8	54	11.1	5.8
Endrin ketone	µg/kg	dw	1	2	2	2	2					11	4.8	54	11.6	6.1
gamma-BHC (Lindane)	µg/kg	dw	0									12	2.4	27	5.56	2.95
gamma-Chlordane	µg/kg	dw	1	1.1	1.1	1.1	1.1					11	2.4	27	5.81	3.1
Heptachlor	µg/kg	dw	0									12	2.4	27	5.56	2.95
Heptachlor epoxide	µg/kg	dw	3	0.24	65	22.18	1.3	37.1	21.4	1.73		9	2.4	27	6.51	3.1
Methoxychlor	µg/kg	dw	0									12	24	270	55.6	29.5
Toxaphene	µg/kg	dw	0									12	240	2,700	556	295
Aroclor 1016	µg/kg	dw	0									12	16	500	112	65
Aroclor 1221	µg/kg	dw	0									12	30	500	116	69.5
Aroclor 1232	µg/kg	dw	0									12	16	500	112	65
Aroclor 1242	µg/kg	dw	0									12	16	500	112	65
Aroclor 1248	µg/kg	dw	0									12	16	500	112	65
Aroclor 1254	µg/kg	dw	4	50	70	60	60	11.5	5.77	0	-6	8	16	500	123	65
Aroclor 1260	µg/kg	dw	0									12	16	500	112	65
Aroclor 1268	µg/kg	dw	4	10	100	54.5	54	46.1	23.0	0.02	-5.44	8	16	500	146	100
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	0									12	0.03	0.82	0.36	0.31
Total TCDDs	ng/kg	dw	4	1.32	16.4	7.73	6.60	6.40	3.20	0.95	1.16	8	0.24	0.82	0.42	0.32
1,2,3,7,8-PeCDD	ng/kg	dw	1	0.55	0.55	0.55	0.55					11	0.21	0.96	0.45	0.32
Total PeCDDs	ng/kg	dw	6	0.62	8.52	3.43	1.38	3.79	1.55	0.93	-1.84	6	0.21	2.85	0.77	0.29
1,2,3,4,7,8-HxCDD	ng/kg	dw	3	0.28	1.14	0.60	0.37	0.47	0.27	1.67		9	0.16	3.03	0.70	0.37
1,2,3,6,7,8-HxCDD	ng/kg	dw	8	0.69	48.3	9.91	3.7	15.9	5.64	2.55	6.73	4	0.20	0.59	0.33	0.28
1,2,3,7,8,9-HxCDD	ng/kg	dw	6	0.87	19.2	5.48	2.98	6.88	2.81	2.21	5.06	6	0.17	2.64	0.67	0.25
Total HxCDDs	ng/kg	dw	11	0.76	245	38.2	12.6	71.7	21.6	2.86	8.58	1	0.59	0.59	0.59	0.59
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	12	3.04	236	55.1	35.2	65.2	18.8	2.21	5.53	0				
Total HpCDDs	ng/kg	dw	12	6.33	405	98.2	64.4	112	32.3	2.13	5.17	0				
OCDD	ng/kg	dw	12	17.7	1,000	324	224	318	91.8	1.28	0.46	0				
2,3,7,8-TCDF	ng/kg	dw	12	4.71	48.7	18.0	14.4	13.3	3.84	1.26	1.22	0				
Total TCDFs	ng/kg	dw	12	7.4	128	47.1	40.3	34.9	10.1	1.24	1.51	0				
1,2,3,7,8-PeCDF	ng/kg	dw	10	0.90	11.3	4.79	4.15	2.76	0.87	1.42	3.39	2	0.41	2.32	1.36	1.36
2,3,4,7,8-PeCDF	ng/kg	dw	9	0.54	5.94	2.48	2.26	1.50	0.50	1.60	3.91	3	0.41	3.28	1.70	1.40
Total PeCDFs	ng/kg	dw	10	5.47	31.6	16.5	17.4	8.43	2.66	0.23	-0.63	2	0.19	2.56	1.38	1.38
1,2,3,4,7,8-HxCDF	ng/kg	dw	10	0.89	9.92	5.76	6.55	2.80	0.89	-0.31	-0.64	2	2.26	5.02	3.64	3.64
1,2,3,6,7,8-HxCDF	ng/kg	dw	9	0.32	3.44	1.94	2.34	1.01	0.34	-0.17	-1.06	3	0.66	2.58	1.65	1.70

Table G1-50. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
1,2,3,7,8,9-HxCDF	ng/kg	dw	5	0.22	1.78	0.88	1	0.66	0.30	0.27	-1.42	7	0.23	0.61	0.30	0.24
2,3,4,6,7,8-HxCDF	ng/kg	dw	5	0.33	1.71	1.00	0.83	0.64	0.29	0.29	-2.95	7	0.21	0.98	0.51	0.55
Total HxCDFs	ng/kg	dw	11	0.92	35.5	15.8	14.1	10.0	3.02	0.37	0.22	1	2.40	2.40	2.40	2.40
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	12	3.32	23	10.1	9.15	5.78	1.67	1.13	0.91	0				
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	7	0.66	4.42	2.30	2.18	1.16	0.44	0.75	1.83	5	0.52	2.79	1.46	0.99
Total HpCDFs	ng/kg	dw	12	4.70	62.3	26.8	18.7	19.1	5.50	0.88	-0.50	0				
OCDF	ng/kg	dw	12	8.02	53.9	28.8	25.4	15.9	4.60	0.36	-1.16	0				

Table G1-51. Summary Statistics for Lower Geddes Brook Sediment Samples Collected in 1998 and 2001 by Honeywell/Exponent/BBL (15-45 cm)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Chloride (Measured)	mg/kg	dw	5	113	11,400	4,511	282	5,887	2,633	0.62	-3.25	0				
Dry weight	µg/kg	dw	5	0.49	0.78	0.62	0.55	0.14	0.06	0.51	-3.08	0				
Particles < 0.0012 mm	%	dw	5	1.9	16.3	7.62	4.7	6.30	2.82	0.73	-1.89	0				
Particles < 0.0027 mm	%	dw	5	8.1	23.4	14.3	12.4	6.54	2.93	0.64	-1.60	0				
Particles < 0.0057 mm	%	dw	5	22.6	31.7	27	25.9	3.94	1.76	0.28	-2.48	0				
Particles < 0.0079 mm	%	dw	5	30.2	43.2	34.3	31.8	5.25	2.35	1.72	2.93	0				
Particles < 0.0108 mm	%	dw	5	33.1	57.6	42.8	42.1	9.23	4.13	1.14	1.86	0				
Particles < 0.0178 mm	%	dw	5	38.1	70.1	52.4	54.5	12.4	5.55	0.42	-0.25	0				
Particles < 0.0276 mm	%	dw	5	41.7	75.9	59.1	64.8	14.6	6.51	-0.28	-2.31	0				
Particles < 0.074 mm (sieve #200)	%	dw	5	47.8	90.4	67.8	73.1	17.4	7.78	0.05	-1.55	0				
Particles < 0.105 mm (sieve #140)	%	dw	5	49.4	94.4	70.2	75.5	18.4	8.23	0.11	-1.46	0				
Particles < 0.250 mm (sieve #60)	%	dw	5	54.7	97.8	75.3	81.6	17.9	8.01	-0.06	-1.89	0				
Particles < 0.42 mm (sieve #40)	%	dw	5	59.0	98.4	79.5	87.3	17.2	7.69	-0.37	-2.57	0				
Particles < 0.84 mm (sieve #20)	%	dw	5	65.9	98.9	84.8	93.6	15.4	6.88	-0.59	-2.93	0				
Particles < 2.00 mm (sieve #10)	%	dw	5	75.2	99.5	90.4	98.1	11.7	5.25	-0.70	-2.74	0				
Particles < 4.75 mm (sieve #4)	%	dw	5	81.1	100	93.3	99.8	9.23	4.13	-0.73	-2.62	0				
Particles < 9.50 mm	%	dw	5	83.5	100	94.2	100	8.09	3.62	-0.74	-2.58	0				
Particles < 12.7 mm (1/2" sieve)	%	dw	5	84.4	100	94.6	100	7.54	3.37	-0.78	-2.32	0				
Particles < 19.0 mm	%	dw	5	84.4	100	94.9	100	7.26	3.25	-0.96	-1.35	0				
Particles < 25.4 mm (1" sieve)	%	dw	5	90.2	100	98.0	100	4.39	1.96	-2.24	5	0				
Particles < 37.5 mm (1 1/2" sieve)	%	dw	5	90.2	100	98.0	100	4.39	1.96	-2.24	5	0				
Particles < 50 mm (2" sieve)	%	dw	5	100	100	100	100	0	0			0				
Particles < 75 mm (3" sieve)	%	dw	5	100	100	100	100	0	0			0				
Particles < 150 mm (6" sieve)	%	dw	5	100	100	100	100	0	0			0				
Particles < 300 mm (12" sieve)	%	dw	5	100	100	100	100	0	0			0				
Percent clay	%	ww	5	5.37	20.3	11.1	8.51	6.64	2.97	0.72	-1.71	0				
Percent gravel	%	dw	5	0.54	24.8	9.59	1.94	11.7	5.25	0.70	-2.74	0				
Percent moisture	%	ww	5	28.3	68.7	43.5	38.7	16.7	7.46	0.96	-0.11	0				
Percent sand	%	ww	5	14.8	30.1	26.2	28.5	6.45	2.88	-2.07	4.40	0				
Percent silt	%	ww	5	29.5	76.2	53.2	64.1	21.9	9.81	-0.41	-2.96	0				
Total organic carbon	mg/kg	dw	14	3,320	29,600	12,506	9,125	8,821	2,358	1.29	0.24	0				
Total solids	%	ww	14	33	76.8	61.1	60.9	13.5	3.61	-0.67	-0.19	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	12	2,280	12,100	6,096	5,340	3,096	894	0.53	-0.46	0				
Antimony	mg/kg	dw	1	0.21	0.21	0.21	0.21					11	0.19	0.64	0.38	0.36
Arsenic	mg/kg	dw	12	3.3	14.6	6.26	5.70	3.27	0.94	1.66	3.11	0				
Barium	mg/kg	dw	12	47.7	93.5	72.0	72.8	15.9	4.58	-0.16	-1.47	0				

Table G1-51. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Beryllium	mg/kg	dw	7	0.38	1.4	0.72	0.65	0.35	0.13	1.32	1.78	5	0.15	0.52	0.30	0.2
Cadmium	mg/kg	dw	6	0.13	0.54	0.28	0.24	0.15	0.06	1.29	1.64	6	0.04	1.6	1.11	1.25
Calcium	mg/kg	dw	12	134,000	358,000	235,083	229,000	74,607	21,537	0.19	-1.42	0				
Chromium	mg/kg	dw	12	6.8	56.1	21.1	15.7	14.5	4.20	1.73	2.45	0				
Cobalt	mg/kg	dw	11	3.4	10.4	6.3	5.6	2.38	0.72	0.59	-0.61	1	1.2	1.2	1.2	1.2
Copper	mg/kg	dw	12	21.2	97.2	43.8	38.9	21.4	6.18	1.64	2.80	0				
Cyanide	mg/kg	dw	1	0.82	0.82	0.82	0.82					11	0.63	4.7	2.31	1.4
Iron	mg/kg	dw	12	4,070	15,400	9,605	9,370	4,064	1,173	0.02	-1.40	0				
Lead	mg/kg	dw	12	15.4	200	41.4	25.3	51.3	14.8	3.17	10.4	0				
Magnesium	mg/kg	dw	12	8,030	25,200	15,131	14,300	5,886	1,699	0.46	-0.73	0				
Manganese	mg/kg	dw	12	243	450	325	319	56.0	16.2	0.68	1.18	0				
Methylmercury	µg/kg	dw	12	0.35	4.6	1.37	0.82	1.20	0.35	1.99	4.49	0				
Nickel	mg/kg	dw	12	19.7	84.8	34.5	25.8	19.6	5.652	1.82	3.33	0				
Potassium	mg/kg	dw	12	231	3,090	1,041	520	933	269	1.17	0.45	0				
Selenium	mg/kg	dw	2	0.31	0.67	0.49	0.49	0.25	0.18			10	0.26	1.4	0.76	0.74
Silver	mg/kg	dw	0									12	0.09	1.1	0.47	0.20
Sodium	mg/kg	dw	12	435	3,150	1,302	1,070	954	275	1.28	0.65	0				
Thallium	mg/kg	dw	2	0.55	0.85	0.7	0.7	0.21	0.15			10	0.52	1.8	1.13	1.15
Total Mercury	mg/kg	dw	14	0.44	5.3	1.57	1.24	1.20	0.32	2.58	7.91	0				
Vanadium	mg/kg	dw	12	6.5	27.2	13.8	13.7	5.93	1.71	1.00	1.16	0				
Zinc	mg/kg	dw	12	69.7	174	93.0	85.4	27.6	7.95	2.64	7.89	0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									5	13	19	15.6	16
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									5	13	19	15.6	16
1,1,2-Trichloroethane	µg/kg	dw	0									5	13	19	15.6	16
1,1-Dichloroethane	µg/kg	dw	0									5	13	19	15.6	16
1,1-Dichloroethene	µg/kg	dw	0									5	13	19	15.6	16
1,2-Dichloroethane	µg/kg	dw	0									5	13	19	15.6	16
1,2-Dichloroethene (Total)	µg/kg	dw	0									5	13	19	15.6	16
1,2-Dichloropropane	µg/kg	dw	0									5	13	19	15.6	16
2-Butanone	µg/kg	dw	0									5	13	19	15.6	16
2-Hexanone	µg/kg	dw	0									5	13	19	15.6	16
4-Methyl-2-pentanone	µg/kg	dw	0									5	13	19	15.6	16
Acetone	µg/kg	dw	5	7.5	11	9.2	9	1.28	0.57	0.19	0.75	0				
Benzene	µg/kg	dw	0									5	13	19	15.6	16
Bromodichloromethane	µg/kg	dw	0									5	13	19	15.6	16
Bromoform	µg/kg	dw	0									5	13	19	15.6	16
Bromomethane	µg/kg	dw	0									5	13	19	15.6	16
Carbon disulfide	µg/kg	dw	0									5	13	19	15.6	16
Carbon Tetrachloride	µg/kg	dw	0									5	13	19	15.6	16
Chlorobenzene	µg/kg	dw	0									5	13	19	15.6	16
Chloroethane	µg/kg	dw	0									5	13	19	15.6	16
Chloroform	µg/kg	dw	0									5	13	19	15.6	16
Chloromethane	µg/kg	dw	0									5	13	19	15.6	16

Table G1-51. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
cis-1,2-Dichloroethene	µg/kg	dw	0									0				
cis-1,3-Dichloropropene	µg/kg	dw	0									5	13	19	15.6	16
Dibromochloromethane	µg/kg	dw	0									5	13	19	15.6	16
Ethylbenzene	µg/kg	dw	0									5	13	19	15.6	16
Methylene chloride	µg/kg	dw	0									5	13	19	15.6	16
Styrene	µg/kg	dw	0									5	13	19	15.6	16
Tetrachloroethene	µg/kg	dw	0									5	13	19	15.6	16
Toluene	µg/kg	dw	0									5	13	19	15.6	16
trans-1,2-Dichloroethene	µg/kg	dw	0									0				
trans-1,3-Dichloropropene	µg/kg	dw	0									5	13	19	15.6	16
Trichloroethene	µg/kg	dw	0									5	13	19	15.6	16
Vinyl chloride	µg/kg	dw	0									5	13	19	15.6	16
meta & para Xylenes	µg/kg	dw	0									0				
ortho-Xylene	µg/kg	dw	0									0				
Xylene (Total)	µg/kg	dw	0									5	13	19	15.6	16
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	0									12	430	980	570	545
1,2-Dichlorobenzene	µg/kg	dw	2	50	80	65	65	21.2	15			10	430	980	591	550
1,3-Dichlorobenzene	µg/kg	dw	0									12	430	980	570	545
1,4-Dichlorobenzene	µg/kg	dw	2	85	220	153	153	95.5	67.5			10	430	980	591	550
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									12	430	980	570	545
2,4,5-Trichlorophenol	µg/kg	dw	0									12	1,100	2,400	1,392	1,300
2,4,6-Trichlorophenol	µg/kg	dw	0									12	430	980	570	545
2,4-Dichlorophenol	µg/kg	dw	0									12	430	980	570	545
2,4-Dimethylphenol	µg/kg	dw	0									12	430	980	570	545
2,4-Dinitrophenol	µg/kg	dw	0									12	1,100	2,400	1,392	1,300
2,4-Dinitrotoluene	µg/kg	dw	0									12	430	980	570	545
2,6-Dinitrotoluene	µg/kg	dw	0									12	430	980	570	545
2-Chloronaphthalene	µg/kg	dw	0									12	430	980	570	545
2-Chlorophenol	µg/kg	dw	0									12	430	980	570	545
2-Methylphenol	µg/kg	dw	0									12	430	980	570	545
2-Nitroaniline	µg/kg	dw	0									12	45	1,600	577	84.5
2-Nitrophenol	µg/kg	dw	0									12	430	980	570	545
3,3'-Dichlorobenzidine	µg/kg	dw	0									12	430	980	571	545
3-Nitroaniline	µg/kg	dw	0									12	1,100	2,400	1,392	1,300
4,6-Dinitro-2-methylphenol	µg/kg	dw	0									12	1,100	2,400	1,392	1,300
4-Bromophenyl-phenyl ether	µg/kg	dw	0									12	430	980	570	545
4-Chloro-3-methylphenol	µg/kg	dw	0									12	430	980	570	545
4-Chloroaniline	µg/kg	dw	0									12	430	980	570	545
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									12	430	980	570	545
4-Methylphenol	µg/kg	dw	0									12	430	980	570	545
4-Nitroaniline	µg/kg	dw	0									12	1,100	2,400	1,392	1,300
4-Nitrophenol	µg/kg	dw	0									12	1,100	2,400	1,392	1,300
Bis(2-chloroethoxy)methane	µg/kg	dw	0									12	430	980	570	545

Table G1-51. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	DETECTS Minimum Detection	DETECTS Maximum Detection	DETECTS Mean	DETECTS Median	DETECTS Standard Deviation	DETECTS Standard Error	DETECTS Skewness	DETECTS Kurtosis	NON-DETECTS N	NON-DETECTS Minimum Detection Limit	NON-DETECTS Maximum Detection Limit	NON-DETECTS Mean	NON-DETECTS Median
Bis(2-chloroethyl)ether	µg/kg	dw	0									12	45	620	250	84.5
Bis(2-ethylhexyl)phthalate	µg/kg	dw	9	210	620	411	360	160	53.2	0.11	-2.10	3	450	480	463	460
Butylbenzylphthalate	µg/kg	dw	0									12	430	980	570	545
Carbazole	µg/kg	dw	5	62	110	88.8	97.0	19.7	8.81	-0.57	-1.56	7	450	980	630	550
Dibenzofuran	µg/kg	dw	2	49	76	62.5	62.5	19.1	13.5			10	430	980	578	545
Diethylphthalate	µg/kg	dw	0									12	430	980	570	545
Dimethylphthalate	µg/kg	dw	0									12	430	980	570	545
Di-n-butylphthalate	µg/kg	dw	3	63	73	69.3	72	5.51	3.18	-1.67		9	450	980	583	550
Di-n-octylphthalate	µg/kg	dw	0									12	430	980	570	545
Hexachlorobenzene	µg/kg	dw	3	560	610	583	580	25.2	14.5	0.59		2	430	440	435	435
Hexachlorobenzene (GC)	µg/kg	dw	5	9.9	1,300	366	210	537	240	1.94	3.91	0				
Hexachlorobenzene (GC/ECD)	µg/kg	dw	7	200	9,000	1,586	500	3,273	1,237	2.63	6.95	0				
Hexachlorobenzene (MS)	µg/kg	dw	7	150	2,000	744	580	695	263	1.10	0.42	0				
Hexachlorobutadiene	µg/kg	dw	0									12	430	980	570	545
Hexachlorocyclopentadiene	µg/kg	dw	0									12	430	980	570	545
Hexachloroethane	µg/kg	dw	0									12	430	980	570	545
Isophorone	µg/kg	dw	0									12	430	980	570	545
Nitrobenzene	µg/kg	dw	0									12	430	980	570	545
N-nitroso-di-n-propylamine	µg/kg	dw	0									12	45	620	250	84.5
N-Nitrosodiphenylamine	µg/kg	dw	0									12	430	980	570	545
Pentachlorophenol	µg/kg	dw	0									12	1,100	2,400	1,392	1,300
Phenol	µg/kg	dw	2	65	120	92.5	92.5	38.9	27.5			10	430	720	524	510
2-Methylnaphthalene	µg/kg	dw	0									12	430	980	570	545
Acenaphthene	µg/kg	dw	3	64	80	74	78	8.72	5.03	-1.63		9	45	620	273	97
Acenaphthylene	µg/kg	dw	0									12	430	980	570	545
Anthracene	µg/kg	dw	5	120	160	146	150	15.2	6.78	-1.75	3.72	7	45	620	283	97
Benzo(a)anthracene	µg/kg	dw	10	73	550	273	250	178	56.3	0.34	-1.57	2	45	97	71	71
Benzo(a)pyrene	µg/kg	dw	8	98	480	283	305	151	53.3	-0.03	-1.57	4	45	540	184	76
Benzo(b)fluoranthene	µg/kg	dw	9	120	860	408	360	248	82.5	0.76	-0.35	3	450	980	657	540
Benzo(g,h,i)perylene	µg/kg	dw	6	65	190	130	130	56.1	22.9	-0.04	-2.93	6	45	550	227	84.5
Benzo(k)fluoranthene	µg/kg	dw	9	78	430	189	170	116	38.8	1.17	1.17	3	45	540	227	97
Chrysene	µg/kg	dw	10	93	610	305	270	188	59.5	0.44	-1.33	2	450	980	715	715
Dibenz(a,h)anthracene	µg/kg	dw	2	89	110	99.5	99.5	14.8	10.5			10	45	620	213	66.5
Fluoranthene	µg/kg	dw	11	110	1,200	536	370	376	113	0.47	-1.24	1	45	45	45	45
Fluorene	µg/kg	dw	4	59	92	74	72.5	13.9	6.94	0.58	0.53	8	45	620	253	84.5
Indeno(1,2,3-cd)pyrene	µg/kg	dw	7	60	400	177	100	130	49.0	1.10	-0.26	5	45	540	162	72
Naphthalene	µg/kg	dw	3	95	130	108	100	18.9	10.9	1.60		9	45	620	230	72
Phenanthrene	µg/kg	dw	10	83	800	404.6	360	278	87.8	0.15	-1.88	2	45	97	71	71
Pyrene	µg/kg	dw	10	110	1,100	513	485	352	111	0.38	-1.27	2	450	980	715	715
Pesticides/Polychlorinated Biphenyls																
4,4'-DDD	µg/kg	dw	2	8.5	8.9	8.7	8.7	0.28	0.2			10	4.5	47	12.3	6.75
4,4'-DDE	µg/kg	dw	3	1.7	17	11.2	15	8.32	4.80	-1.62		9	4.5	47	13.0	7.3
4,4'-DDT	µg/kg	dw	3	0.69	8.4	5.73	8.1	4.37	2.52	-1.72		9	4.5	47	13.2	7.3
Aldrin	µg/kg	dw	3	5.7	11	8.37	8.4	2.65	1.53	-0.06		9	2.2	24	6.57	3.2

Table G1-51. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
alpha-BHC	µg/kg	dw	0									12	2.2	24	5.6	3.15
alpha-Chlordane	µg/kg	dw	0									12	2.2	24	5.6	3.15
beta-BHC	µg/kg	dw	2	2	7.8	4.9	4.9	4.10	2.9			10	2.2	24	6.04	2.95
delta-BHC	µg/kg	dw	1	19	19	19	19					11	2.2	11	3.93	3.1
Dieldrin	µg/kg	dw	2	20	25	22.5	22.5	3.54	2.5			10	4.5	47	12.3	6.75
Endosulfan I	µg/kg	dw	1	2.3	2.3	2.3	2.3					11	2.2	24	5.66	3.1
Endosulfan II	µg/kg	dw	0									12	4.3	47	11.0	6.15
Endosulfan sulfate	µg/kg	dw	0									12	4.3	47	11.0	6.15
Endrin	µg/kg	dw	0									12	4.3	47	11.0	6.15
Endrin aldehyde	µg/kg	dw	0									11	4.3	47	11.4	6.2
Endrin ketone	µg/kg	dw	0									12	4.3	47	11.0	6.15
gamma-BHC (Lindane)	µg/kg	dw	1	10	10	10	10					11	2.2	24	5.78	3.1
gamma-Chlordane	µg/kg	dw	3	1.5	3.2	2.23	2	0.87	0.50	1.12		9	2.2	24	6.57	3.6
Heptachlor	µg/kg	dw	0									12	2.2	24	5.6	3.15
Heptachlor epoxide	µg/kg	dw	0									11	2.2	24	5.9	3.2
Methoxychlor	µg/kg	dw	0									12	22	240	56	31.5
Toxaphene	µg/kg	dw	0									12	220	2,400	560	315
Aroclor 1016	µg/kg	dw	0									12	13	5,000	582	150
Aroclor 1221	µg/kg	dw	0									12	26	5,000	588	150
Aroclor 1232	µg/kg	dw	0									12	13	5,000	582	150
Aroclor 1242	µg/kg	dw	0									12	13	5,000	582	150
Aroclor 1248	µg/kg	dw	0									12	13	5,000	582	150
Aroclor 1254	µg/kg	dw	2	20	80	50	50	42.4	30			10	13	5,000	648	110
Aroclor 1260	µg/kg	dw	1	300	300	300	300					11	13	5,000	616	100
Aroclor 1268	µg/kg	dw	0									12	13	5,000	582	150
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	0									12	0.17	0.76	0.35	0.35
Total TCDDs	ng/kg	dw	5	3.05	12.1	5.30	3.5	3.85	1.72	2.09	4.42	7	0.17	0.76	0.41	0.35
1,2,3,7,8-PeCDD	ng/kg	dw	0									12	0.14	0.71	0.45	0.46
Total PeCDDs	ng/kg	dw	1	7.33	7.33	7.33	7.33					11	0.14	8.09	1.85	0.47
1,2,3,4,7,8-HxCDD	ng/kg	dw	0									12	0.13	0.89	0.45	0.42
1,2,3,6,7,8-HxCDD	ng/kg	dw	7	0.30	13.7	4.93	1.27	5.49	2.08	0.91	-1.07	5	0.22	3.75	1.66	0.44
1,2,3,7,8,9-HxCDD	ng/kg	dw	3	0.40	5.29	2.28	1.15	2.63	1.52	1.57		9	0.20	4.98	1.43	0.41
Total HxCDDs	ng/kg	dw	9	0.74	76.7	26.0	11.4	28.6	9.55	1.05	-0.67	3	0.26	0.44	0.34	0.31
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	12	2.58	280	50.0	28.4	75.8	21.9	2.95	9.39	0				
Total HpCDDs	ng/kg	dw	12	4.94	448	86.2	52.7	121	35.0	2.80	8.62	0				
OCDD	ng/kg	dw	12	15.1	1,680	311	179	453	131	2.92	9.23	0				
2,3,7,8-TCDF	ng/kg	dw	12	5.33	63.1	20.5	10.9	19.1	5.50	1.27	0.66	0				
Total TCDFs	ng/kg	dw	12	7.69	155	55.1	26.3	49.4	14.2	1.06	-0.21	0				
1,2,3,7,8-PeCDF	ng/kg	dw	10	1.17	14.7	5.78	4.23	4.86	1.54	0.84	-0.64	2	1.67	2.64	2.16	2.16
2,3,4,7,8-PeCDF	ng/kg	dw	8	0.67	6.66	2.64	1.66	2.27	0.80	1.13	-0.19	4	1.3	3.51	2.46	2.51
Total PeCDFs	ng/kg	dw	12	2.13	44.9	13.8	10.9	11.8	3.40	1.93	4.13	0				
1,2,3,4,7,8-HxCDF	ng/kg	dw	10	0.87	46.9	9.49	4.28	13.9	4.39	2.61	7.27	2	2.39	3.48	2.94	2.94
1,2,3,6,7,8-HxCDF	ng/kg	dw	5	0.77	14.2	4.08	0.89	5.80	2.59	1.99	3.94	7	0.16	3.11	1.24	1.30

Table G1-51. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
1,2,3,7,8,9-HxCDF	ng/kg	dw	4	0.52	4.67	2.06	1.53	1.95	0.97	1.01	-0.47	8	0.10	0.75	0.25	0.19
2,3,4,6,7,8-HxCDF	ng/kg	dw	3	0.32	4.22	2.13	1.85	1.97	1.13	0.63		9	0.10	0.85	0.50	0.59
Total HxCDFs	ng/kg	dw	11	1.34	84.5	18.7	8.06	24.2	7.28	2.37	6.07	1	0.16	0.16	0.16	0.16
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	12	0.59	47.3	13.5	6.67	15.2	4.38	1.55	1.46	0				
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	4	0.78	20.3	7.67	4.79	9.17	4.59	1.20	0.49	8	0.32	1.99	1.21	1.35
Total HpCDFs	ng/kg	dw	12	0.59	127	34.4	16.2	41.3	11.9	1.49	1.22	0				
OCDF	ng/kg	dw	11	2.09	259	48.4	13.2	75.2	22.7	2.59	7.21	1	0.43	0.43	0.43	0.43

Table G1-52. Summary Statistics for Lower Geddes Brook Sediment Samples Collected in 1998 and 2001 by Honeywell/Exponent/BBL (45-75 cm)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Chloride (Measured)	mg/kg	dw	2	89.1	19,200	9,645	9,645	13,513	9,555			0				
Dry weight	µg/kg	dw	2	0.49	0.51	0.5	0.5	0.01	0.01			0				
Particles < 0.0012 mm	%	dw	2	0.9	6.2	3.55	3.55	3.75	2.65			0				
Particles < 0.0027 mm	%	dw	2	7.8	16.3	12.1	12.1	6.01	4.25			0				
Particles < 0.0057 mm	%	dw	2	19.7	39	29.4	29.4	13.6	9.65			0				
Particles < 0.0079 mm	%	dw	2	30.5	58	44.3	44.3	19.4	13.8			0				
Particles < 0.0108 mm	%	dw	2	43.4	71.9	57.7	57.7	20.2	14.3			0				
Particles < 0.0178 mm	%	dw	2	60.2	83.3	71.8	71.8	16.3	11.6			0				
Particles < 0.0276 mm	%	dw	2	68.1	89.6	78.9	78.9	15.2	10.8			0				
Particles < 0.074 mm (sieve #200)	%	dw	2	81.8	97.0	89.4	89.4	10.8	7.64			0				
Particles < 0.105 mm (sieve #140)	%	dw	2	85.1	98.6	91.8	91.8	9.52	6.73			0				
Particles < 0.250 mm (sieve #60)	%	dw	2	92.1	99.7	95.9	95.9	5.36	3.79			0				
Particles < 0.42 mm (sieve #40)	%	dw	2	95.4	99.8	97.6	97.6	3.10	2.20			0				
Particles < 0.84 mm (sieve #20)	%	dw	2	97.9	99.9	98.9	98.9	1.41	1			0				
Particles < 2.00 mm (sieve #10)	%	dw	2	99.4	99.9	99.7	99.7	0.40	0.28			0				
Particles < 4.75 mm (sieve #4)	%	dw	2	99.9	100	99.9	99.9	0.10	0.07			0				
Particles < 9.50 mm	%	dw	2	100	100	100	100	0	0			0				
Particles < 12.7 mm (1/2" sieve)	%	dw	2	100	100	100	100	0	0			0				
Particles < 19.0 mm	%	dw	2	100	100	100	100	0	0			0				
Particles < 25.4 mm (1" sieve)	%	dw	2	100	100	100	100	0	0			0				
Particles < 37.5 mm (1 1/2" sieve)	%	dw	2	100	100	100	100	0	0			0				
Particles < 50 mm (2" sieve)	%	dw	2	100	100	100	100	0	0			0				
Particles < 75 mm (3" sieve)	%	dw	2	100	100	100	100	0	0			0				
Particles < 150 mm (6" sieve)	%	dw	2	100	100	100	100	0	0			0				
Particles < 300 mm (12" sieve)	%	dw	2	100	100	100	100	0	0			0				
Percent clay	%	ww	2	4.2	11.2	7.69	7.69	4.93	3.49			0				
Percent gravel	%	dw	2	0.07	0.63	0.35	0.35	0.40	0.28			0				
Percent moisture	%	ww	2	67.3	69	68.15	68.2	1.20	0.85			0				
Percent sand	%	ww	2	5.95	23.3	14.6	14.6	12.2	8.66			0				
Percent silt	%	ww	2	71.9	82.8	77.4	77.4	7.71	5.45			0				
Total organic carbon	mg/kg	dw	8	3,460	23,500	8,954	6,830	6,339	2,241	2.09	4.89	0				
Total solids	%	ww	8	38.7	69.3	59	61.1	9.95	3.52	-1.26	1.67	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	8	1,420	9,230	5,266	5,275	2,628	929	0.06	-0.44	0				
Antimony	mg/kg	dw	2	0.25	0.3	0.28	0.28	0.04	0.02			6	0.22	0.66	0.38	0.34
Arsenic	mg/kg	dw	8	3.3	8.3	5.76	5.75	1.71	0.60	-0.19	-0.66	0				
Barium	mg/kg	dw	8	63.5	107	79.1	74.2	13.9	4.90	1.31	1.59	0				

Table G1-52. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Beryllium	mg/kg	dw	6	0.17	0.73	0.48	0.49	0.20	0.08	-0.44	-0.24	2	0.21	0.36	0.29	0.29
Cadmium	mg/kg	dw	6	0.3	1.2	0.66	0.63	0.31	0.13	1.03	1.48	2	1.5	1.6	1.55	1.55
Calcium	mg/kg	dw	8	226,000	351,000	273,250	257,500	42,402	14,991	0.93	-0.02	0				
Chromium	mg/kg	dw	8	8.7	24.8	15.8	13	6.92	2.45	0.49	-1.99	0				
Cobalt	mg/kg	dw	8	2	16.7	6.64	4.25	5.64	2.00	1.26	0.04	0				
Copper	mg/kg	dw	8	38.1	119	74.7	73.5	32.8	11.6	0.30	-1.52	0				
Cyanide	mg/kg	dw	0									8	0.75	4.5	1.78	0.86
Iron	mg/kg	dw	8	2,850	19,800	10,020	8,150	6,127	2,166	0.65	-0.76	0				
Lead	mg/kg	dw	8	19.2	371	127.2	45.9	148	52.3	1.17	-0.50	0				
Magnesium	mg/kg	dw	8	4,370	17,300	11,480	12,900	4,120	1,457	-0.61	0.02	0				
Manganese	mg/kg	dw	8	253	441	352	355	63.2	22.3	-0.13	-0.98	0				
Methylmercury	µg/kg	dw	8	0.33	8.82	3.04	2.07	2.71	0.96	1.70	2.79	0				
Nickel	mg/kg	dw	8	26.6	117	51.9	30.8	36.7	13.0	1.31	-0.03	0				
Potassium	mg/kg	dw	8	255	2,000	1,032	976	658	233	0.38	-1.37	0				
Selenium	mg/kg	dw	2	0.38	0.47	0.43	0.43	0.06	0.05			6	0.32	1.3	0.7	0.48
Silver	mg/kg	dw	0									8	0.11	1.1	0.37	0.13
Sodium	mg/kg	dw	8	713	4,890	1,484	1,090	1,390	491	2.72	7.54	0				
Thallium	mg/kg	dw	3	0.99	1.2	1.13	1.2	0.12	0.07	-1.73		5	0.56	1.7	1.11	0.98
Total Mercury	mg/kg	dw	8	0.74	79	16.7	3.55	27.3	9.64	2.17	4.64	0				
Vanadium	mg/kg	dw	8	3.4	19.1	11.9	11.8	5.30	1.87	-0.25	-0.49	0				
Zinc	mg/kg	dw	8	65.2	232	94.9	76.8	56.2	19.9	2.68	7.37	0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									2	18	18	18	18
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									2	18	18	18	18
1,1,2-Trichloroethane	µg/kg	dw	0									2	18	18	18	18
1,1-Dichloroethane	µg/kg	dw	0									2	18	18	18	18
1,1-Dichloroethene	µg/kg	dw	0									2	18	18	18	18
1,2-Dichloroethane	µg/kg	dw	0									2	18	18	18	18
1,2-Dichloroethene (Total)	µg/kg	dw	0									2	18	18	18	18
1,2-Dichloropropane	µg/kg	dw	0									2	18	18	18	18
2-Butanone	µg/kg	dw	0									2	18	18	18	18
2-Hexanone	µg/kg	dw	0									2	18	18	18	18
4-Methyl-2-pentanone	µg/kg	dw	0									2	18	18	18	18
Acetone	µg/kg	dw	2	8.6	15	11.8	11.8	4.53	3.2			0				
Benzene	µg/kg	dw	0									2	18	18	18	18
Bromodichloromethane	µg/kg	dw	0									2	18	18	18	18
Bromoform	µg/kg	dw	0									2	18	18	18	18
Bromomethane	µg/kg	dw	0									2	18	18	18	18
Carbon disulfide	µg/kg	dw	1	6.7	6.7	6.7	6.7					1	18	18	18	18
Carbon Tetrachloride	µg/kg	dw	0									2	18	18	18	18
Chlorobenzene	µg/kg	dw	0									2	18	18	18	18
Chloroethane	µg/kg	dw	0									2	18	18	18	18

Table G1-52. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Chloroform	µg/kg	dw	0									2	18	18	18	18
Chloromethane	µg/kg	dw	0									2	18	18	18	18
cis-1,2-Dichloroethene	µg/kg	dw	0									0				
cis-1,3-Dichloropropene	µg/kg	dw	0									2	18	18	18	18
Dibromochloromethane	µg/kg	dw	0									2	18	18	18	18
Ethylbenzene	µg/kg	dw	0									2	18	18	18	18
Methylene chloride	µg/kg	dw	0									2	18	18	18	18
Styrene	µg/kg	dw	0									2	18	18	18	18
Tetrachloroethene	µg/kg	dw	0									2	18	18	18	18
Toluene	µg/kg	dw	0									2	18	18	18	18
trans-1,2-Dichloroethene	µg/kg	dw	0									0				
trans-1,3-Dichloropropene	µg/kg	dw	0									2	18	18	18	18
Trichloroethene	µg/kg	dw	0									2	18	18	18	18
Vinyl chloride	µg/kg	dw	0									2	18	18	18	18
meta & para Xylenes	µg/kg	dw	0									0				
ortho-Xylene	µg/kg	dw	0									0				
Xylene (Total)	µg/kg	dw	0									2	18	18	18	18
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	3	62	96	75	67	18.4	10.6	1.59		5	500	790	612	590
1,2-Dichlorobenzene	µg/kg	dw	5	100	630	292	230	209	93.5	1.33	1.66	3	590	790	660	600
1,3-Dichlorobenzene	µg/kg	dw	1	240	240	240	240					7	490	790	579	580
1,4-Dichlorobenzene	µg/kg	dw	5	120	280	210	230	61.6	27.6	-0.67	-0.09	3	590	790	660	600
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									8	490	790	569	540
2,4,5-Trichlorophenol	µg/kg	dw	0									8	1,200	1,900	1,388	1,300
2,4,6-Trichlorophenol	µg/kg	dw	0									8	490	790	569	540
2,4-Dichlorophenol	µg/kg	dw	0									8	490	790	569	540
2,4-Dimethylphenol	µg/kg	dw	0									8	490	790	569	540
2,4-Dinitrophenol	µg/kg	dw	0									8	1,200	1,900	1,388	1,300
2,4-Dinitrotoluene	µg/kg	dw	0									8	490	790	569	540
2,6-Dinitrotoluene	µg/kg	dw	0									8	490	790	569	540
2-Chloronaphthalene	µg/kg	dw	0									8	490	790	569	540
2-Chlorophenol	µg/kg	dw	0									8	490	790	569	540
2-Methylphenol	µg/kg	dw	0									8	490	790	569	540
2-Nitroaniline	µg/kg	dw	0									8	49	1,500	417	54.5
2-Nitrophenol	µg/kg	dw	0									8	490	790	569	540
3,3'-Dichlorobenzidine	µg/kg	dw	0									8	490	790	569	540
3-Nitroaniline	µg/kg	dw	0									8	1,200	1,900	1,388	1,300
4,6-Dinitro-2-methylphenol	µg/kg	dw	0									8	1,200	1,900	1,388	1,300
4-Bromophenyl-phenyl ether	µg/kg	dw	0									8	490	790	569	540
4-Chloro-3-methylphenol	µg/kg	dw	0									8	490	790	569	540
4-Chloroaniline	µg/kg	dw	0									8	490	790	569	540
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									8	490	790	569	540

Table G1-52. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
4-Methylphenol	µg/kg	dw	0									8	490	790	569	540
4-Nitroaniline	µg/kg	dw	0									8	1,200	1,900	1,388	1,300
4-Nitrophenol	µg/kg	dw	0									8	1,200	1,900	1,388	1,300
Bis(2-chloroethoxy)methane	µg/kg	dw	0									8	490	790	569	540
Bis(2-chloroethyl)ether	µg/kg	dw	0									8	49	600	190	54.5
Bis(2-ethylhexyl)phthalate	µg/kg	dw	5	240	710	474	400	218	97.7	0.31	-2.89	3	490	500	497	500
Butylbenzylphthalate	µg/kg	dw	0									8	490	790	569	540
Carbazole	µg/kg	dw	4	70	410	185	130	154	76.8	1.73	3.13	4	490	790	618	595
Dibenzofuran	µg/kg	dw	3	67	190	122	110	62.4	36.0	0.85		5	490	790	610	590
Diethylphthalate	µg/kg	dw	0									8	490	790	569	540
Dimethylphthalate	µg/kg	dw	0									8	490	790	569	540
Di-n-butylphthalate	µg/kg	dw	0									8	490	790	569	540
Di-n-octylphthalate	µg/kg	dw	0									8	490	790	569	540
Hexachlorobenzene	µg/kg	dw	2	780	1,900	1,340	1,340	792	560			0				
Hexachlorobenzene (GC)	µg/kg	dw	2	400	1,500	950	950	778	550			0				
Hexachlorobenzene (GC/ECD)	µg/kg	dw	6	200	18,000	7,917	8,500	7,058	2,881	0.18	-1.28	0				
Hexachlorobenzene (MS)	µg/kg	dw	6	500	17,000	7,572	7,650	6,770	2,764	0.23	-1.80	0				
Hexachlorobutadiene	µg/kg	dw	1	58	58	58	58					7	490	790	579	580
Hexachlorocyclopentadiene	µg/kg	dw	0									8	490	790	569	540
Hexachloroethane	µg/kg	dw	1	63	63	63	63					7	490	790	579	580
Isophorone	µg/kg	dw	0									8	490	790	569	540
Nitrobenzene	µg/kg	dw	0									8	490	790	569	540
N-nitroso-di-n-propylamine	µg/kg	dw	0									8	49	600	190	54.5
N-Nitrosodiphenylamine	µg/kg	dw	0									8	490	790	569	540
Pentachlorophenol	µg/kg	dw	0									8	1,200	1,900	1,388	1,300
Phenol	µg/kg	dw	0									8	490	790	569	540
2-Methylnaphthalene	µg/kg	dw	1	65	65	65	65					7	490	790	579	580
Acenaphthene	µg/kg	dw	4	61	470	181	96.5	193	96.7	1.95	3.86	4	49	600	197	69
Acenaphthylene	µg/kg	dw	2	61	90	75.5	75.5	20.5	14.5			6	490	790	592	585
Anthracene	µg/kg	dw	5	58	720	318	270	262	117	0.96	0.46	3	59	600	246	79
Benzo(a)anthracene	µg/kg	dw	6	76	1,900	719	605	675	276	1.17	1.20	2	59	79	69	69
Benzo(a)pyrene	µg/kg	dw	6	74	1,400	557	500	489	200	1.06	0.94	2	59	79	69	69
Benzo(b)fluoranthene	µg/kg	dw	7	120	2,600	887	380	909	344	1.26	1.07	1	600	600	600	600
Benzo(g,h,i)perylene	µg/kg	dw	4	89	290	190	190	82.1	41.0	-0.02	1.50	4	49	600	197	69
Benzo(k)fluoranthene	µg/kg	dw	5	110	830	414	360	264	118	0.97	1.95	3	59	600	246	79
Chrysene	µg/kg	dw	8	73	1,800	556	310	604	213	1.43	1.75	0				
Dibenz(a,h)anthracene	µg/kg	dw	3	75	120	93	84	23.8	13.7	1.46		5	49	600	273	79
Fluoranthene	µg/kg	dw	8	130	4,000	1,146	555	1,350	477	1.59	2.33	0				
Fluorene	µg/kg	dw	4	70	380	195	165	139	69.3	0.94	-0.27	4	49	600	197	69
Indeno(1,2,3-cd)pyrene	µg/kg	dw	6	49	320	180	200	101	41.1	-0.10	-0.84	2	59	79	69	69
Naphthalene	µg/kg	dw	3	52	100	74.3	71	24.2	14.0	0.61		5	49	600	273	79
Phenanthrene	µg/kg	dw	8	65	3,500	911	425	1,183	418	1.80	3.28	0				

Table G1-52. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Pyrene	µg/kg	dw	8	110	4,200	1,120	485	1,410	498	1.78	3.21	0				
Pesticides/Polychlorinated Biphenyls																
4,4'-DDD	µg/kg	dw	0									8	5	51	25.5	17.5
4,4'-DDE	µg/kg	dw	1	17	17	17	17					7	6	51	28.4	23
4,4'-DDT	µg/kg	dw	1	61	61	61	61					7	5	50	21.9	12
Aldrin	µg/kg	dw	1	2.2	2.2	2.2	2.2					7	2.5	25	14.1	12
alpha-BHC	µg/kg	dw	0									8	2.5	25	12.8	9.1
alpha-Chlordane	µg/kg	dw	0									8	2.5	25	12.8	9.1
beta-BHC	µg/kg	dw	1	8.5	8.5	8.5	8.5					5	2.5	25	8.14	4
delta-BHC	µg/kg	dw	3	10	72	40	38	31.0	17.9	0.29		5	3	25	10.0	6.2
Dieldrin	µg/kg	dw	0									8	5	51	22.5	17.5
Endosulfan I	µg/kg	dw	2	2.6	2.6	2.6	2.6	0	0			6	4	25	16.2	18.5
Endosulfan II	µg/kg	dw	3	12	69	37.3	31	29.0	16.8	0.94		5	6	50	19.8	12
Endosulfan sulfate	µg/kg	dw	1	10	10	10	10					7	5	50	21.9	12
Endrin	µg/kg	dw	0									8	5	51	25.5	17.5
Endrin aldehyde	µg/kg	dw	0									7	6	51	28.4	23
Endrin ketone	µg/kg	dw	0									8	5	51	25.5	17.5
gamma-BHC (Lindane)	µg/kg	dw	0									8	2.5	25	12.8	9.1
gamma-Chlordane	µg/kg	dw	3	2.2	36	21.7	27	17.5	10.1	-1.23		5	2.5	25	9.94	6.2
Heptachlor	µg/kg	dw	0									8	2.5	25	12.8	9.1
Heptachlor epoxide	µg/kg	dw	1	33	33	33	33					7	2.5	25	11.1	6.2
Methoxychlor	µg/kg	dw	0									8	25	250	128	91
Toxaphene	µg/kg	dw	0									8	250	2,500	1,284	910
Aroclor 1016	µg/kg	dw	0									8	18	13,000	5,417	2,600
Aroclor 1221	µg/kg	dw	0									8	35	13,000	5,421	2,600
Aroclor 1232	µg/kg	dw	0									8	18	13,000	5,417	2,600
Aroclor 1242	µg/kg	dw	0									8	18	13,000	5,417	2,600
Aroclor 1248	µg/kg	dw	0									8	18	13,000	5,417	2,600
Aroclor 1254	µg/kg	dw	3	30	2,000	697	60	1,129	652	1.73		5	18	13,000	7,607	12,000
Aroclor 1260	µg/kg	dw	0									8	18	13,000	5,417	2,600
Aroclor 1268	µg/kg	dw	0									8	18	13,000	5,417	2,600
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	2	0.53	12.6	6.56	6.56	8.54	6.04			6	0.27	4.98	1.24	0.54
Total TCDDs	ng/kg	dw	5	0.94	13.8	5.77	4.72	4.86	2.17	1.41	2.56	3	0.41	4.98	2.02	0.68
1,2,3,7,8-PeCDD	ng/kg	dw	1	4.02	4.02	4.02	4.02					7	0.26	3.59	1.00	0.58
Total PeCDDs	ng/kg	dw	0									8	0.26	9.19	2.53	1.19
1,2,3,4,7,8-HxCDD	ng/kg	dw	0									8	0.18	3.01	0.96	0.82
1,2,3,6,7,8-HxCDD	ng/kg	dw	5	1.09	9.22	3.59	2.93	3.31	1.48	1.73	3.20	3	1.25	3.76	2.82	3.45
1,2,3,7,8,9-HxCDD	ng/kg	dw	1	0.89	0.89	0.89	0.89					7	0.21	3.56	1.81	1.16
Total HxCDDs	ng/kg	dw	8	4.88	45.8	15.3	8.55	13.9	4.91	1.82	3.36	0				
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	8	20.6	57.4	36.5	39.0	13.1	4.62	0.10	-0.92	0				
Total HpCDDs	ng/kg	dw	8	41.2	118	71.6	75.1	26.7	9.43	0.43	-0.40	0				

Table G1-52. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
OCDD	ng/kg	dw	8	104	449	242	253	111	39.2	0.67	0.53	0				
2,3,7,8-TCDF	ng/kg	dw	8	11.3	522	145	93.1	162	57.2	2.23	5.50	0				
Total TCDFs	ng/kg	dw	8	22.2	2,300	686	370	797	282	1.57	1.57	0				
1,2,3,7,8-PeCDF	ng/kg	dw	8	2.75	188	65.9	35.1	67.2	23.7	0.96	-0.34	0				
2,3,4,7,8-PeCDF	ng/kg	dw	8	1.26	102	32.7	18.6	35.2	12.4	1.34	1.01	0				
Total PeCDFs	ng/kg	dw	8	9.96	660	218	109	233	82.5	1.11	0.25	0				
1,2,3,4,7,8-HxCDF	ng/kg	dw	8	3.3	508	148	36.2	201	71.2	1.29	-0.01	0				
1,2,3,6,7,8-HxCDF	ng/kg	dw	7	1.08	162	52.5	11.5	71.5	27.0	1.16	-0.87	1	2.71	2.71	2.71	2.71
1,2,3,7,8,9-HxCDF	ng/kg	dw	5	0.75	37.9	13.6	9.54	14.7	6.56	1.51	2.37	3	0.26	0.82	0.46	0.29
2,3,4,6,7,8-HxCDF	ng/kg	dw	5	0.66	40.8	19.1	14.8	19.6	8.75	0.28	-3.01	3	0.64	2.4	1.74	2.17
Total HxCDFs	ng/kg	dw	8	10.4	905	271	65.7	371	131	1.27	-0.21	0				
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	8	4.22	436	128	26.9	180	63.7	1.29	-0.20	0				
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	7	0.86	272	86.9	12.1	120	45.2	1.10	-0.92	1	1.69	1.69	1.69	1.69
Total HpCDFs	ng/kg	dw	8	9.15	989	298	65.3	422	149	1.28	-0.27	0				
OCDF	ng/kg	dw	8	6.8	2,090	644	116	897	317	1.15	-0.57	0				

Table G1-53. Summary Statistics for Lower Geddes Brook Sediment Samples Collected in 1998 and 2001 by Honeywell/Exponent/BBL (75-105 cm)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Chloride (Measured)	mg/kg	dw	1	53.7	53.7	53.7	53.7					0				
Dry weight	µg/kg	dw	1	0.61	0.61	0.61	0.61					0				
Particles < 0.0012 mm	%	dw	1	3.9	3.9	3.9	3.9					0				
Particles < 0.0027 mm	%	dw	1	9.1	9.1	9.1	9.1					0				
Particles < 0.0057 mm	%	dw	1	23.5	23.5	23.5	23.5					0				
Particles < 0.0079 mm	%	dw	1	31	31	31	31					0				
Particles < 0.0108 mm	%	dw	1	38	38	38	38					0				
Particles < 0.0178 mm	%	dw	1	44.3	44.3	44.3	44.3					0				
Particles < 0.0276 mm	%	dw	1	46.6	46.6	46.6	46.6					0				
Particles < 0.074 mm (sieve #200)	%	dw	1	54.0	54.0	54.0	54.0					0				
Particles < 0.105 mm (sieve #140)	%	dw	1	59.1	59.1	59.1	59.1					0				
Particles < 0.250 mm (sieve #60)	%	dw	1	79.2	79.2	79.2	79.2					0				
Particles < 0.42 mm (sieve #40)	%	dw	1	90.4	90.4	90.4	90.4					0				
Particles < 0.84 mm (sieve #20)	%	dw	1	97.1	97.1	97.1	97.1					0				
Particles < 2.00 mm (sieve #10)	%	dw	1	99.2	99.2	99.2	99.2					0				
Particles < 4.75 mm (sieve #4)	%	dw	1	99.8	99.8	99.8	99.8					0				
Particles < 9.50 mm	%	dw	1	100	100	100	100					0				
Particles < 12.7 mm (1/2" sieve)	%	dw	1	100	100	100	100					0				
Particles < 19.0 mm	%	dw	1	100	100	100	100					0				
Particles < 25.4 mm (1" sieve)	%	dw	1	100	100	100	100					0				
Particles < 37.5 mm (1 1/2" sieve)	%	dw	1	100	100	100	100					0				
Particles < 50 mm (2" sieve)	%	dw	1	100	100	100	100					0				
Particles < 75 mm (3" sieve)	%	dw	1	100	100	100	100					0				
Particles < 150 mm (6" sieve)	%	dw	1	100	100	100	100					0				
Particles < 300 mm (12" sieve)	%	dw	1	100	100	100	100					0				
Percent clay	%	ww	1	6.48	6.48	6.48	6.48					0				
Percent gravel	%	dw	1	0.81	0.81	0.81	0.81					0				
Percent moisture	%	ww	1	68.4	68.4	68.4	68.4					0				
Percent sand	%	ww	1	48.1	48.1	48.1	48.1					0				
Percent silt	%	ww	1	44.6	44.6	44.6	44.6					0				
Total organic carbon	mg/kg	dw	4	1,160	17,200	8,358	7,535	6,625	3,313	0.73	1.73	0				
Total solids	%	ww	4	49.9	71	61.5	62.5	8.70	4.35	-0.69	1.75	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	4	2,440	18,800	8,595	6,570	7,116	3,558	1.48	2.56	0				
Antimony	mg/kg	dw	1	0.47	0.47	0.47	0.47					3	0.24	0.77	0.44	0.3
Arsenic	mg/kg	dw	4	4.4	22.7	10.2	6.85	8.41	4.21	1.88	3.66	0				
Barium	mg/kg	dw	4	63	146	93.1	81.8	37.0	18.5	1.49	2.20	0				

Table G1-53. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Beryllium	mg/kg	dw	3	0.28	0.93	0.57	0.49	0.33	0.19	0.98		1	0.37	0.37	0.37	0.37
Cadmium	mg/kg	dw	2	0.62	0.83	0.73	0.73	0.15	0.11			2	0.04	1.4	0.72	0.72
Calcium	mg/kg	dw	4	89,500	279,000	197,875	211,500	83,030	41,515	-0.76	-0.49	0				
Chromium	mg/kg	dw	4	9.9	29.3	16.8	14	9.19	4.59	1.12	0.05	0				
Cobalt	mg/kg	dw	4	2.6	10.6	7.03	7.45	3.33	1.67	-0.72	1.29	0				
Copper	mg/kg	dw	4	31.8	189	82.4	54.5	72.1	36.0	1.83	3.45	0				
Cyanide	mg/kg	dw	0									4	0.7	4	1.62	0.90
Iron	mg/kg	dw	4	4,290	29,700	14,630	12,265	11,010	5,505	1.08	0.99	0				
Lead	mg/kg	dw	4	18.8	144	57.6	33.7	58.7	29.3	1.80	3.24	0				
Magnesium	mg/kg	dw	4	6,690	12,400	10,348	11,150	2,651	1,325	-1.21	0.57	0				
Manganese	mg/kg	dw	4	300	502	374	347	92.7	46.3	1.23	0.73	0				
Methylmercury	µg/kg	dw	4	0.49	3.51	2.34	2.68	1.30	0.65	-1.38	2.24	0				
Nickel	mg/kg	dw	4	28.4	76.8	42	31.4	23.4	11.7	1.92	3.70	0				
Potassium	mg/kg	dw	4	352	2,980	1,608	1,550	1,123	562	0.26	-0.76	0				
Selenium	mg/kg	dw	2	0.41	2.4	1.41	1.41	1.41	1.00			2	0.43	1.2	0.82	0.82
Silver	mg/kg	dw	0									4	0.1	0.96	0.33	0.14
Sodium	mg/kg	dw	4	356	1140	781	814	323	161	-0.60	1.64	0				
Thallium	mg/kg	dw	0									4	0.52	1.5	0.84	0.67
Total Mercury	mg/kg	dw	4	1	3.76	2.79	3.20	1.23	0.62	-1.63	2.78	0				
Vanadium	mg/kg	dw	4	5.6	36.9	17.6	13.9	13.5	6.74	1.48	2.78	0				
Zinc	mg/kg	dw	4	55.8	99.1	75.1	72.7	18.3	9.14	0.70	0.64	0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									0				
1,1,2,2-Tetrachloroethane	µg/kg	dw	0	.								0	.			
1,1,2-Trichloroethane	µg/kg	dw	0									0				
1,1-Dichloroethane	µg/kg	dw	0									0				
1,1-Dichloroethene	µg/kg	dw	0									0				
1,2-Dichloroethane	µg/kg	dw	0									0				
1,2-Dichloroethene (Total)	µg/kg	dw	0									0				
1,2-Dichloropropane	µg/kg	dw	0									0				
2-Butanone	µg/kg	dw	0									0				
2-Hexanone	µg/kg	dw	0									0				
4-Methyl-2-pentanone	µg/kg	dw	0									0				
Acetone	µg/kg	dw	0									0				
Benzene	µg/kg	dw	0									0				
Bromodichloromethane	µg/kg	dw	0									0				
Bromoform	µg/kg	dw	0									0				
Bromomethane	µg/kg	dw	0									0				
Carbon disulfide	µg/kg	dw	0									0				
Carbon Tetrachloride	µg/kg	dw	0									0				
Chlorobenzene	µg/kg	dw	0									0				
Chloroethane	µg/kg	dw	0									0				

Table G1-53. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	DETECTS Minimum Detection	DETECTS Maximum Detection	DETECTS Mean	DETECTS Median	DETECTS Standard Deviation	DETECTS Standard Error	DETECTS Skewness	DETECTS Kurtosis	NON-DETECTS N	NON-DETECTS Minimum Detection Limit	NON-DETECTS Maximum Detection Limit	NON-DETECTS Mean	NON-DETECTS Median
Chloroform	µg/kg	dw	0									0				
Chloromethane	µg/kg	dw	0									0				
cis-1,2-Dichloroethene	µg/kg	dw	0									0				
cis-1,3-Dichloropropene	µg/kg	dw	0									0				
Dibromochloromethane	µg/kg	dw	0									0				
Ethylbenzene	µg/kg	dw	0									0				
Methylene chloride	µg/kg	dw	0									0				
Styrene	µg/kg	dw	0									0				
Tetrachloroethene	µg/kg	dw	0									0				
Toluene	µg/kg	dw	0									0				
trans-1,2-Dichloroethene	µg/kg	dw	0									0				
trans-1,3-Dichloropropene	µg/kg	dw	0									0				
Trichloroethene	µg/kg	dw	0									0				
Vinyl chloride	µg/kg	dw	0									0				
meta & para Xylenes	µg/kg	dw	0									0				
ortho-Xylene	µg/kg	dw	0									0				
Xylene (Total)	µg/kg	dw	0									0				
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	1	620	620	620	620					3	510	630	557	530
1,2-Dichlorobenzene	µg/kg	dw	4	60	340	149	97.5	131	65.7	1.67	2.69	0				
1,3-Dichlorobenzene	µg/kg	dw	1	1,200	1,200	1,200	1,200					3	510	630	557	530
1,4-Dichlorobenzene	µg/kg	dw	3	110	1,300	510	120	684	395	1.73		1	630	630	630	630
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									4	460	630	533	520
2,4,5-Trichlorophenol	µg/kg	dw	0									4	1,100	1,500	1,275	1,250
2,4,6-Trichlorophenol	µg/kg	dw	0									4	460	630	533	520
2,4-Dichlorophenol	µg/kg	dw	0									4	460	630	533	520
2,4-Dimethylphenol	µg/kg	dw	0									4	460	630	533	520
2,4-Dinitrophenol	µg/kg	dw	0									4	1,100	1,500	1,275	1,250
2,4-Dinitrotoluene	µg/kg	dw	0									4	460	630	533	520
2,6-Dinitrotoluene	µg/kg	dw	0									4	460	630	533	520
2-Chloronaphthalene	µg/kg	dw	0									4	460	630	533	520
2-Chlorophenol	µg/kg	dw	0									4	460	630	533	520
2-Methylphenol	µg/kg	dw	0									4	460	630	533	520
2-Nitroaniline	µg/kg	dw	0									4	46	1,300	365	56.5
2-Nitrophenol	µg/kg	dw	0									4	460	630	533	520
3,3'-Dichlorobenzidine	µg/kg	dw	0									4	460	630	533	520
3-Nitroaniline	µg/kg	dw	0									4	1,100	1,500	1,275	1,250
4,6-Dinitro-2-methylphenol	µg/kg	dw	0									4	1,100	1,500	1,275	1,250
4-Bromophenyl-phenyl ether	µg/kg	dw	0									4	460	630	533	520
4-Chloro-3-methylphenol	µg/kg	dw	0									4	460	630	533	520
4-Chloroaniline	µg/kg	dw	0									4	460	630	533	520
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									4	460	630	533	520

Table G1-53. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
4-Methylphenol	µg/kg	dw	0									4	460	630	533	520
4-Nitroaniline	µg/kg	dw	0									4	1,100	1,500	1,275	1,250
4-Nitrophenol	µg/kg	dw	0									4	1,100	1,500	1,275	1,250
Bis(2-chloroethoxy)methane	µg/kg	dw	0									4	460	630	533	520
Bis(2-chloroethyl)ether	µg/kg	dw	0									4	46	530	172	56.5
Bis(2-ethylhexyl)phthalate	µg/kg	dw	3	56	400	225	220	172	99.3	0.14		1	460	460	460	460
Butylbenzylphthalate	µg/kg	dw	0									4	460	630	533	520
Carbazole	µg/kg	dw	2	64	440	252	252	266	188			2	510	630	570	570
Dibenzofuran	µg/kg	dw	1	390	390	390	390					3	510	630	557	530
Diethylphthalate	µg/kg	dw	0									4	460	630	533	520
Dimethylphthalate	µg/kg	dw	0									4	460	630	533	520
Di-n-butylphthalate	µg/kg	dw	0									4	460	630	533	520
Di-n-octylphthalate	µg/kg	dw	0									4	460	630	533	520
Hexachlorobenzene	µg/kg	dw	1	2200	2200	2200	2200					0				
Hexachlorobenzene (GC)	µg/kg	dw	1	520	520	520	520					0				
Hexachlorobenzene (GC/ECD)	µg/kg	dw	3	100	130,000	43,467	300	74,940	43,267	1.73		0				
Hexachlorobenzene (MS)	µg/kg	dw	3	160	85,000	28,657	810	48,796	28,172	1.73		0				
Hexachlorobutadiene	µg/kg	dw	1	160	160	160	160					3	510	630	557	530
Hexachlorocyclopentadiene	µg/kg	dw	0									4	460	630	533	520
Hexachloroethane	µg/kg	dw	0									4	460	630	533	520
Isophorone	µg/kg	dw	0									4	460	630	533	520
Nitrobenzene	µg/kg	dw	0									4	460	630	533	520
N-nitroso-di-n-propylamine	µg/kg	dw	0									4	46	530	172	56.5
N-Nitrosodiphenylamine	µg/kg	dw	0									4	460	630	533	520
Pentachlorophenol	µg/kg	dw	0									4	1,100	1,500	1,275	1,250
Phenol	µg/kg	dw	0									4	460	630	533	520
2-Methylnaphthalene	µg/kg	dw	1	140	140	140	140					3	510	630	557	530
Acenaphthene	µg/kg	dw	1	540	540	540	540					3	51	530	214	62
Acenaphthylene	µg/kg	dw	1	150	150	150	150					3	510	630	557	530
Anthracene	µg/kg	dw	2	100	1,800	950	950	1,202	850			2	51	62	56.5	56.5
Benzo(a)anthracene	µg/kg	dw	4	64	5,000	1,434	335	2,388	1,194	1.95	3.81	0				
Benzo(a)pyrene	µg/kg	dw	4	56	3,900	1,123	268	1,860	930	1.95	3.80	0				
Benzo(b)fluoranthene	µg/kg	dw	4	92	7,000	1,981	415	3,354	1,677	1.97	3.90	0				
Benzo(g,h,i)perylene	µg/kg	dw	2	270	1,100	685	685	587	415			2	51	62	56.5	56.5
Benzo(k)fluoranthene	µg/kg	dw	3	64	2,000	821	400	1,034	597	1.53		1	51	51	51	51
Chrysene	µg/kg	dw	4	63	4,600	1,371	410	2,171	1,086	1.90	3.64	0				
Dibenz(a,h)anthracene	µg/kg	dw	2	120	390	255	255	191	135			2	51	62	56.5	56.5
Fluoranthene	µg/kg	dw	4	130	9,900	2,808	600	4,741	2,371	1.97	3.89	0				
Fluorene	µg/kg	dw	1	680	680	680	680					3	51	530	214	62
Indeno(1,2,3-cd)pyrene	µg/kg	dw	2	430	1,200	815	815	544	385			2	51	62	56.5	56.5
Naphthalene	µg/kg	dw	1	280	280	280	280					3	51	530	214	62
Phenanthrene	µg/kg	dw	4	84	5,500	1,594	395	2,616	1,308	1.95	3.81	0				

Table G1-53. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Pyrene	µg/kg	dw	4	110	11,000	3,060	565	5,305	2,652	1.97	3.91	0				
Pesticides/Polychlorinated Biphenyls																
4,4'-DDD	µg/kg	dw	0									4	5.1	47	17.4	8.65
4,4'-DDE	µg/kg	dw	0									4	5.1	47	17.4	8.65
4,4'-DDT	µg/kg	dw	1	94	94	94	94					3	5.1	11	7.47	6.3
Aldrin	µg/kg	dw	1	1.4	1.4	1.4	1.4					3	2.6	23	10.4	5.5
alpha-BHC	µg/kg	dw	0									4	2.6	23	8.58	4.35
alpha-Chlordane	µg/kg	dw	0									4	2.6	23	8.58	4.35
beta-BHC	µg/kg	dw	1	5.1	5.1	5.1	5.1					3	2.6	23	9.6	3.2
delta-BHC	µg/kg	dw	0									4	2.6	23	8.58	4.35
Dieldrin	µg/kg	dw	0									4	5.1	47	17.4	8.65
Endosulfan I	µg/kg	dw	0									4	2.6	23	8.58	4.35
Endosulfan II	µg/kg	dw	0									4	5.1	47	17.4	8.65
Endosulfan sulfate	µg/kg	dw	0									4	5.1	47	17.4	8.65
Endrin	µg/kg	dw	1	6.5	6.5	6.5	6.5					3	5.1	47	19.5	6.3
Endrin aldehyde	µg/kg	dw	0									4	5.1	47	17.4	8.65
Endrin ketone	µg/kg	dw	0									4	5.1	47	17.4	8.65
gamma-BHC (Lindane)	µg/kg	dw	2	2.6	3.2	2.9	2.9	0.42	0.3			2	5.5	23	14.3	14.3
gamma-Chlordane	µg/kg	dw	1	38	38	38	38					3	2.6	5.5	3.77	3.2
Heptachlor	µg/kg	dw	0									4	2.6	23	8.58	4.35
Heptachlor epoxide	µg/kg	dw	0									4	2.6	23	8.58	4.35
Methoxychlor	µg/kg	dw	0									4	26	230	85.8	43.5
Toxaphene	µg/kg	dw	0									4	260	2,300	858	435
Aroclor 1016	µg/kg	dw	0									4	16	120,000	30,129	250
Aroclor 1221	µg/kg	dw	0									4	32	120,000	30,133	250
Aroclor 1232	µg/kg	dw	0									4	16	120,000	30,129	250
Aroclor 1242	µg/kg	dw	0									4	16	120,000	30,129	250
Aroclor 1248	µg/kg	dw	0									4	16	120,000	30,129	250
Aroclor 1254	µg/kg	dw	1	110	110	110	110					3	100	120,000	40,167	400
Aroclor 1260	µg/kg	dw	0									4	16	120,000	30,129	250
Aroclor 1268	µg/kg	dw	1	23	23	23	23					3	100	120,000	40,167	400
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	0									4	0.28	1.97	0.80	0.48
Total TCDDs	ng/kg	dw	1	19.6	19.6	19.6	19.6					3	0.45	1.97	0.98	0.51
1,2,3,7,8-PeCDD	ng/kg	dw	0									4	0.32	1.95	0.77	0.40
Total PeCDDs	ng/kg	dw	1	5.62	5.62	5.62	5.62					3	0.32	9.30	3.34	0.41
1,2,3,4,7,8-HxCDD	ng/kg	dw	0									4	0.29	1.80	0.73	0.41
1,2,3,6,7,8-HxCDD	ng/kg	dw	1	3.98	3.98	3.98	3.98					3	0.33	2.70	1.12	0.34
1,2,3,7,8,9-HxCDD	ng/kg	dw	0									4	0.31	1.90	1.01	0.91
Total HxCDDs	ng/kg	dw	3	1.86	34.9	18.0	17.1	16.5	9.55	0.23		1	0.34	0.34	0.34	0.34
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	4	3.56	79.5	29.7	17.9	35.5	17.7	1.35	1.21	0				
Total HpCDDs	ng/kg	dw	4	7.12	157	61.1	40.2	70.4	35.2	1.13	0.11	0				

Table G1-53. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
OCDD	ng/kg	dw	4	27.7	755	250	110	345	172	1.74	2.96	0				
2,3,7,8-TCDF	ng/kg	dw	4	8.32	563	168	49.6	265	133	1.92	3.70	0				
Total TCDFs	ng/kg	dw	4	26.9	758	267	142	337	168	1.68	2.78	0				
1,2,3,7,8-PeCDF	ng/kg	dw	4	1.42	58.5	20.8	11.6	26.2	13.1	1.56	2.26	0				
2,3,4,7,8-PeCDF	ng/kg	dw	4	1.03	29.8	11.3	7.24	13.0	6.50	1.44	1.79	0				
Total PeCDFs	ng/kg	dw	4	5.2	181	67.3	41.6	80.3	40.1	1.42	1.62	0				
1,2,3,4,7,8-HxCDF	ng/kg	dw	4	2.11	75.5	24.8	10.8	34.5	17.2	1.79	3.18	0				
1,2,3,6,7,8-HxCDF	ng/kg	dw	4	0.61	18.9	6.24	2.72	8.62	4.31	1.78	3.13	0				
1,2,3,7,8,9-HxCDF	ng/kg	dw	0									4	0.28	3.2	1.04	0.34
2,3,4,6,7,8-HxCDF	ng/kg	dw	1	5.25	5.25	5.25	5.25					3	0.25	1	0.52	0.30
Total HxCDFs	ng/kg	dw	4	0.94	151	49.2	22.5	69.8	34.9	1.69	2.77	0				
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	4	2.3	54.2	18.3	8.37	24.5	12.3	1.73	2.92	0				
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	3	0.96	23.5	9.78	4.89	12.0	6.95	1.53		1	0.30	0.30	0.30	0.30
Total HpCDFs	ng/kg	dw	4	3.77	141	46.3	20.2	64.6	32.3	1.75	3.00	0				
OCDF	ng/kg	dw	4	2.56	164	50.1	16.9	76.3	38.2	1.94	3.81	0				

Table G1-54. Summary Statistics for Lower Geddes Brook Sediment Samples Collected in 1998 and 2001 by Honeywell/Exponent/BBL (105-165 cm)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Chloride (Measured)	mg/kg	dw	0									0				
Dry weight	µg/kg	dw	0									0				
Particles < 0.0012 mm	%	dw	0									0				
Particles < 0.0027 mm	%	dw	0									0				
Particles < 0.0057 mm	%	dw	0									0				
Particles < 0.0079 mm	%	dw	0									0				
Particles < 0.0108 mm	%	dw	0									0				
Particles < 0.0178 mm	%	dw	0									0				
Particles < 0.0276 mm	%	dw	0									0				
Particles < 0.074 mm (sieve #200)	%	dw	0									0				
Particles < 0.105 mm (sieve #140)	%	dw	0									0				
Particles < 0.250 mm (sieve #60)	%	dw	0									0				
Particles < 0.42 mm (sieve #40)	%	dw	0									0				
Particles < 0.84 mm (sieve #20)	%	dw	0									0				
Particles < 2.00 mm (sieve #10)	%	dw	0									0				
Particles < 4.75 mm (sieve #4)	%	dw	0									0				
Particles < 9.50 mm	%	dw	0									0				
Particles < 12.7 mm (1/2" sieve)	%	dw	0									0				
Particles < 19.0 mm	%	dw	0									0				
Particles < 25.4 mm (1" sieve)	%	dw	0									0				
Particles < 37.5 mm (1 1/2" sieve)	%	dw	0									0				
Particles < 50 mm (2" sieve)	%	dw	0									0				
Particles < 75 mm (3" sieve)	%	dw	0									0				
Particles < 150 mm (6" sieve)	%	dw	0									0				
Particles < 300 mm (12" sieve)	%	dw	0									0				
Percent clay	%	ww	0									0				
Percent gravel	%	dw	0									0				
Percent moisture	%	ww	0									0				
Percent sand	%	ww	0									0				
Percent silt	%	ww	0									0				
Total organic carbon	mg/kg	dw	2	8,820	22,600	15,710	15,710	9,744	6,890			0				
Total solids	%	ww	2	51	69.5	60.3	60.3	13.1	9.25			0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	2	7,300	12,400	9,850	9,850	3,606	2,550			0				
Antimony	mg/kg	dw	1	0.35	0.35	0.35	0.35					1	0.34	0.34	0.34	0.34
Arsenic	mg/kg	dw	2	8.4	10.3	9.35	9.35	1.34	0.95			0				
Barium	mg/kg	dw	2	80.8	82.3	81.6	81.6	1.06	0.75			0				

Table G1-54. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Beryllium	mg/kg	dw	2	0.69	0.89	0.79	0.79	0.14	0.1			0				
Cadmium	mg/kg	dw	2	0.27	0.29	0.28	0.28	0.01	0.01			0				
Calcium	mg/kg	dw	2	124,000	215,000	169,500	169,500	64,347	45,500			0				
Chromium	mg/kg	dw	2	15.7	24	19.9	19.9	5.87	4.15			0				
Cobalt	mg/kg	dw	2	4.6	10	7.3	7.3	3.82	2.7			0				
Copper	mg/kg	dw	2	63.5	162	113	113	69.7	49.3			0				
Cyanide	mg/kg	dw	0									2	0.72	1.1	0.91	0.91
Iron	mg/kg	dw	2	11,000	24,000	17,500	17,500	9,192	6,500			0				
Lead	mg/kg	dw	2	58.4	115	86.7	86.7	40.0	28.3			0				
Magnesium	mg/kg	dw	2	12,800	15,500	14,150	14,150	1,909	1,350			0				
Manganese	mg/kg	dw	2	316	385	351	351	48.8	34.5			0				
Methylmercury	µg/kg	dw	2	3.04	3.14	3.09	3.09	0.07	0.05			0				
Nickel	mg/kg	dw	2	25.2	137	81.1	81.1	79.1	55.9			0				
Potassium	mg/kg	dw	2	688	2,920	1,804	1,804	1,578	1,116			0				
Selenium	mg/kg	dw	2	0.63	0.68	0.66	0.66	0.04	0.03			0				
Silver	mg/kg	dw	0									2	0.11	0.16	0.14	0.14
Sodium	mg/kg	dw	2	646	1,210	928	928	399	282			0				
Thallium	mg/kg	dw	0									2	0.54	0.83	0.69	0.69
Total Mercury	mg/kg	dw	2	7.3	10.4	8.85	8.85	2.19	1.55			0				
Vanadium	mg/kg	dw	2	16.4	24.4	20.4	20.4	5.66	4			0				
Zinc	mg/kg	dw	2	63.5	80.4	72.0	72.0	12.0	8.45			0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									0				
1,1,2,2-Tetrachloroethane	µg/kg	dw	0	.								0	.			
1,1,2-Trichloroethane	µg/kg	dw	0									0				
1,1-Dichloroethane	µg/kg	dw	0									0				
1,1-Dichloroethene	µg/kg	dw	0									0				
1,2-Dichloroethane	µg/kg	dw	0									0				
1,2-Dichloroethene (Total)	µg/kg	dw	0									0				
1,2-Dichloropropane	µg/kg	dw	0									0				
2-Butanone	µg/kg	dw	0									0				
2-Hexanone	µg/kg	dw	0									0				
4-Methyl-2-pentanone	µg/kg	dw	0									0				
Acetone	µg/kg	dw	0									0				
Benzene	µg/kg	dw	0									0				
Bromodichloromethane	µg/kg	dw	0									0				
Bromoform	µg/kg	dw	0									0				
Bromomethane	µg/kg	dw	0									0				
Carbon disulfide	µg/kg	dw	0									0				
Carbon Tetrachloride	µg/kg	dw	0									0				
Chlorobenzene	µg/kg	dw	0									0				
Chloroethane	µg/kg	dw	0									0				

Table G1-54. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Chloroform	µg/kg	dw	0									0				
Chloromethane	µg/kg	dw	0									0				
cis-1,2-Dichloroethene	µg/kg	dw	0									0				
cis-1,3-Dichloropropene	µg/kg	dw	0									0				
Dibromochloromethane	µg/kg	dw	0									0				
Ethylbenzene	µg/kg	dw	0									0				
Methylene chloride	µg/kg	dw	0									0				
Styrene	µg/kg	dw	0									0				
Tetrachloroethene	µg/kg	dw	0									0				
Toluene	µg/kg	dw	0									0				
trans-1,2-Dichloroethene	µg/kg	dw	0									0				
trans-1,3-Dichloropropene	µg/kg	dw	0									0				
Trichloroethene	µg/kg	dw	0									0				
Vinyl chloride	µg/kg	dw	0									0				
meta & para Xylenes	µg/kg	dw	0									0				
ortho-Xylene	µg/kg	dw	0									0				
Xylene (Total)	µg/kg	dw	0									0				
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	2	130	1,300	715	715	827	585			0				
1,2-Dichlorobenzene	µg/kg	dw	2	330	790	560	560	325	230			0				
1,3-Dichlorobenzene	µg/kg	dw	1	1,200	1,200	1,200	1,200					1	610	610	610	610
1,4-Dichlorobenzene	µg/kg	dw	2	920	1,700	1,310	1,310	552	390			0				
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									2	500	610	555	555
2,4,5-Trichlorophenol	µg/kg	dw	0									2	1,200	1,500	1,350	1,350
2,4,6-Trichlorophenol	µg/kg	dw	0									2	500	610	555	555
2,4-Dichlorophenol	µg/kg	dw	0									2	500	610	555	555
2,4-Dimethylphenol	µg/kg	dw	0									2	500	610	555	555
2,4-Dinitrophenol	µg/kg	dw	0									2	1,200	1,500	1,350	1,350
2,4-Dinitrotoluene	µg/kg	dw	0									2	500	610	555	555
2,6-Dinitrotoluene	µg/kg	dw	0									2	500	610	555	555
2-Chloronaphthalene	µg/kg	dw	0									2	500	610	555	555
2-Chlorophenol	µg/kg	dw	0									2	500	610	555	555
2-Methylphenol	µg/kg	dw	0									2	500	610	555	555
2-Nitroaniline	µg/kg	dw	0									2	50	60	55	55
2-Nitrophenol	µg/kg	dw	0									2	500	610	555	555
3,3'-Dichlorobenzidine	µg/kg	dw	0									2	500	610	555	555
3-Nitroaniline	µg/kg	dw	0									2	1,200	1,500	1,350	1,350
4,6-Dinitro-2-methylphenol	µg/kg	dw	0									2	1,200	1,500	1,350	1,350
4-Bromophenyl-phenyl ether	µg/kg	dw	0									2	500	610	555	555
4-Chloro-3-methylphenol	µg/kg	dw	0									2	500	610	555	555
4-Chloroaniline	µg/kg	dw	0									2	500	610	555	555
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									2	500	610	555	555

Table G1-54. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
4-Methylphenol	µg/kg	dw	1	80	80	80	80					1	610	610	610	610
4-Nitroaniline	µg/kg	dw	0									2	1,200	1,500	1,350	1,350
4-Nitrophenol	µg/kg	dw	0									2	1,200	1,500	1,350	1,350
Bis(2-chloroethoxy)methane	µg/kg	dw	0									2	500	610	555	555
Bis(2-chloroethyl)ether	µg/kg	dw	0									2	50	60	55	55
Bis(2-ethylhexyl)phthalate	µg/kg	dw	2	240	620	430	430	269	190			0				
Butylbenzylphthalate	µg/kg	dw	0									2	500	610	555	555
Carbazole	µg/kg	dw	1	640	640	640	640					1	610	610	610	610
Dibenzofuran	µg/kg	dw	1	560	560	560	560					1	610	610	610	610
Diethylphthalate	µg/kg	dw	0									2	500	610	555	555
Dimethylphthalate	µg/kg	dw	0									2	500	610	555	555
Di-n-butylphthalate	µg/kg	dw	1	130	130	130	130					1	610	610	610	610
Di-n-octylphthalate	µg/kg	dw	0									2	500	610	555	555
Hexachlorobenzene	µg/kg	dw	0									0				
Hexachlorobenzene (GC)	µg/kg	dw	0									0				
Hexachlorobenzene (GC/ECD)	µg/kg	dw	2	4,000	120,000	62,000	62,000	82,024	58,000			0				
Hexachlorobenzene (MS)	µg/kg	dw	2	8,500	160,000	84,250	84,250	107,127	75,750			0				
Hexachlorobutadiene	µg/kg	dw	1	460	460	460	460					1	610	610	610	610
Hexachlorocyclopentadiene	µg/kg	dw	0									2	500	610	555	555
Hexachloroethane	µg/kg	dw	0									2	500	610	555	555
Isophorone	µg/kg	dw	0									2	500	610	555	555
Nitrobenzene	µg/kg	dw	0									2	500	610	555	555
N-nitroso-di-n-propylamine	µg/kg	dw	0									2	50	60	55	55
N-Nitrosodiphenylamine	µg/kg	dw	0									2	500	610	555	555
Pentachlorophenol	µg/kg	dw	0									2	1,200	1,500	1,350	1,350
Phenol	µg/kg	dw	0									2	500	610	555	555
2-Methylnaphthalene	µg/kg	dw	1	280	280	280	280					1	610	610	610	610
Acenaphthene	µg/kg	dw	1	750	750	750	750					1	60	60	60	60
Acenaphthylene	µg/kg	dw	1	130	130	130	130					1	610	610	610	610
Anthracene	µg/kg	dw	2	120	1,400	760	760	905	640			0				
Benzo(a)anthracene	µg/kg	dw	2	440	3,400	1,920	1,920	2,093	1,480			0				
Benzo(a)pyrene	µg/kg	dw	2	400	2,800	1,600	1,600	1,697	1,200			0				
Benzo(b)fluoranthene	µg/kg	dw	2	800	4,700	2,750	2,750	2,758	1,950			0				
Benzo(g,h,i)perylene	µg/kg	dw	2	150	750	450	450	424	300			0				
Benzo(k)fluoranthene	µg/kg	dw	2	210	1,600	905	905	983	695			0				
Chrysene	µg/kg	dw	2	520	3,300	1,910	1,910	1,966	1,390			0				
Dibenz(a,h)anthracene	µg/kg	dw	1	270	270	270	270					1	60	60	60	60
Fluoranthene	µg/kg	dw	2	1,000	6,500	3,750	3,750	3,889	2,750			0				
Fluorene	µg/kg	dw	2	61	820	441	441	537	380			0				
Indeno(1,2,3-cd)pyrene	µg/kg	dw	2	160	780	470	470	438	310			0				
Naphthalene	µg/kg	dw	1	480	480	480	480					1	60	60	60	60
Phenanthrene	µg/kg	dw	2	590	5,800	3,195	3,195	3,684	2,605			0				

Table G1-54. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Pyrene	µg/kg	dw	2	930	8,100	4,515	4,515	5,070	3,585			0				
Pesticides/Polychlorinated Biphenyls																
4,4'-DDD	µg/kg	dw	1	110	110	110	110					1	6	6	6	6
4,4'-DDE	µg/kg	dw	0									2	6	51	28.5	28.5
4,4'-DDT	µg/kg	dw	0									2	6	51	28.5	28.5
Aldrin	µg/kg	dw	1	1.8	1.8	1.8	1.8					1	25	25	25	25
alpha-BHC	µg/kg	dw	0									2	3	25	14	14
alpha-Chlordane	µg/kg	dw	0									2	3	25	14	14
beta-BHC	µg/kg	dw	0									0				
delta-BHC	µg/kg	dw	1	6.7	6.7	6.7	6.7					1	25	25	25	25
Dieldrin	µg/kg	dw	0									2	6	51	28.5	28.5
Endosulfan I	µg/kg	dw	0									2	3	25	14	14
Endosulfan II	µg/kg	dw	0									2	6	51	28.5	28.5
Endosulfan sulfate	µg/kg	dw	0									2	6	51	28.5	28.5
Endrin	µg/kg	dw	0									2	6	51	28.5	28.5
Endrin aldehyde	µg/kg	dw	0									2	6	51	28.5	28.5
Endrin ketone	µg/kg	dw	0									2	6	51	28.5	28.5
gamma-BHC (Lindane)	µg/kg	dw	0									2	3	25	14	14
gamma-Chlordane	µg/kg	dw	1	26	26	26	26					1	3	3	3	3
Heptachlor	µg/kg	dw	1	1.2	1.2	1.2	1.2					1	25	25	25	25
Heptachlor epoxide	µg/kg	dw	1	180	180	180	180					1	3	3	3	3
Methoxychlor	µg/kg	dw	0									2	30	250	140	140
Toxaphene	µg/kg	dw	0									2	300	2,500	1,400	1,400
Aroclor 1016	µg/kg	dw	0									2	3,000	130,000	66,500	66,500
Aroclor 1221	µg/kg	dw	0									2	3,000	130,000	66,500	66,500
Aroclor 1232	µg/kg	dw	0									2	3,000	130,000	66,500	66,500
Aroclor 1242	µg/kg	dw	0									2	3,000	130,000	66,500	66,500
Aroclor 1248	µg/kg	dw	0									2	3,000	130,000	66,500	66,500
Aroclor 1254	µg/kg	dw	0									2	3,000	130,000	66,500	66,500
Aroclor 1260	µg/kg	dw	0									2	3,000	130,000	66,500	66,500
Aroclor 1268	µg/kg	dw	0									2	3,000	130,000	66,500	66,500
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	0									2	0.47	2.46	1.47	1.47
Total TCDDs	ng/kg	dw	0									2	0.47	2.46	1.47	1.47
1,2,3,7,8-PeCDD	ng/kg	dw	0									2	0.32	2.55	1.44	1.44
Total PeCDDs	ng/kg	dw	0									2	0.32	2.55	1.44	1.44
1,2,3,4,7,8-HxCDD	ng/kg	dw	1	0.36	0.36	0.36	0.36					1	2.21	2.21	2.21	2.21
1,2,3,6,7,8-HxCDD	ng/kg	dw	1	1.75	1.75	1.75	1.75					1	2.53	2.53	2.53	2.53
1,2,3,7,8,9-HxCDD	ng/kg	dw	1	0.66	0.66	0.66	0.66					1	2.33	2.33	2.33	2.33
Total HxCDDs	ng/kg	dw	2	8.8	21.5	15.2	15.2	8.98	6.35			0				
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	2	31.8	154	92.9	92.9	86.4	61.1			0				
Total HpCDDs	ng/kg	dw	2	59	318	189	189	183	130			0				

Table G1-54. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
OCDD	ng/kg	dw	2	246	3,090	1,668	1,668	2,011	1,422			0				
2,3,7,8-TCDF	ng/kg	dw	2	12.1	1,090	551	551	762	539			0				
Total TCDFs	ng/kg	dw	2	34.6	1,300	667	667	895	633			0				
1,2,3,7,8-PeCDF	ng/kg	dw	2	3.47	218	111	111	152	107			0				
2,3,4,7,8-PeCDF	ng/kg	dw	2	1.97	72	37.0	37.0	49.5	35.0			0				
Total PeCDFs	ng/kg	dw	2	18.5	484	251	251	329	233			0				
1,2,3,4,7,8-HxCDF	ng/kg	dw	2	5.69	342	174	174	238	168			0				
1,2,3,6,7,8-HxCDF	ng/kg	dw	2	2	110	56	56	76.4	54			0				
1,2,3,7,8,9-HxCDF	ng/kg	dw	2	0.85	56.5	28.7	28.7	39.3	27.8			0				
2,3,4,6,7,8-HxCDF	ng/kg	dw	2	0.41	19.4	9.90	9.90	13.4	9.50			0				
Total HxCDFs	ng/kg	dw	2	20.3	755	388	388	520	367			0				
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	2	11	279	145	145	190	134			0				
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	2	1.71	133	67.4	67.4	92.8	65.6			0				
Total HpCDFs	ng/kg	dw	2	29.7	609	319	319	410	290			0				
OCDF	ng/kg	dw	2	28	689	359	359	467	331			0				

Table G1-55. Summary Statistics for Northern Wetland Sediment Samples (SYW-6 and SYW-10) Collected by Honeywell/Exponent in 2000 (0-15 cm)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Percent clay	%	ww	8	4	18	10	11	4.17	1.48	0.644	1.37	0				
Percent sand	%	ww	8	16	57	40.8	51	18.0	6.35	-0.629	-2.04	0				
Percent silt	%	ww	8	32	70	49.3	42	15.4	5.43	0.498	-2.00	0				
Total organic carbon	%	dw	8	7.48	26.5	15.4	13.1	7.15	2.53	0.935	-0.574	0				
Total solids	%	ww	8	22.2	63	41.0	41	13.1	4.62	0.287	-0.099	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	8	2,840	12,400	6,393	5,430	3,218	1,138	0.912	0.177	0				
Antimony	mg/kg	dw	2	0.51	0.58	0.545	0.545	0.049	0.035			6	0.3	0.86	0.545	0.535
Arsenic	mg/kg	dw	8	1.8	18.4	5.01	3.45	5.48	1.94	2.68	7.38	0				
Barium	mg/kg	dw	8	79.7	176	120	118	33.8	11.9	0.514	-0.640	0				
Beryllium	mg/kg	dw	8	0.3	1.2	0.506	0.385	0.303	0.107	2.10	4.70	0				
Cadmium	mg/kg	dw	8	0.16	14.3	2.705	0.78	4.776	1.689	2.63	7.09	0				
Calcium	mg/kg	dw	8	99,000	335,000	212,375	220,000	96,195	34,010	0.073	-1.77	0				
Chromium	mg/kg	dw	8	13.3	154	46.1	33.8	45.6	16.1	2.36	6.03	0				
Cobalt	mg/kg	dw	8	2	8.5	4.275	3.45	2.160	0.764	1.13	0.830	0				
Copper	mg/kg	dw	8	19.3	120	47.9	38.4	32.8	11.6	1.81	3.50	0				
Cyanide	mg/kg	dw	1	5.4	5.4	5.4	5.4					7	0.8	2.3	1.38	1.3
Iron	mg/kg	dw	8	6,320	21,600	11,768	10,265	5,442	1,924	0.856	-0.209	0				
Lead	mg/kg	dw	8	18.3	175.0	69.9	53.9	52.9	18.7	1.26	1.19	0				
Magnesium	mg/kg	dw	8	4,250	14,300	8,391	6,615	4,106	1,452	0.727	-1.37	0				
Manganese	mg/kg	dw	8	218	488	287	253	89.0	31.5	1.99	4.22	0				
Nickel	mg/kg	dw	8	12.1	64.3	27	22.8	17	6	1.78	3.60	0				
Potassium	mg/kg	dw	8	583	2,160	1,308	1,190	632	223	0.353	-1.69	0				
Selenium	mg/kg	dw	2	1.8	2.5	2.15	2.15	0.495	0.35			6	0.59	1.3	0.92	0.965
Silver	mg/kg	dw	3	0.23	1.4	0.643	0.3	0.656	0.379	1.71		5	0.12	0.27	0.18	0.16
Sodium	mg/kg	dw	8	682	3,420	2,057	1,930	894	316	0.220	-0.352	0				
Thallium	mg/kg	dw	3	1	2.5	1.87	2.1	0.777	0.448	-1.23		5	0.93	2.2	1.49	1.4
Total Mercury	mg/kg	dw	8	0.23	3.9	1.75	1.5	1.34	0.473	0.646	-0.853	0				
Vanadium	mg/kg	dw	8	6.4	30.6	15.0	13.5	8.44	2.98	0.903	0.063	0				
Zinc	mg/kg	dw	8	70.6	510	186	118.5	158	56.0	1.66	1.74	0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									4	7.8	11	9.55	9.7
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									4	7.8	11	9.55	9.7
1,1,2-Trichloroethane	µg/kg	dw	0									4	7.8	11	9.55	9.7
1,1-Dichloroethane	µg/kg	dw	0									4	7.8	11	9.55	9.7
1,1-Dichloroethene	µg/kg	dw	0									4	7.8	11	9.55	9.7

Table G1-55. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
1,2-Dichloroethane	µg/kg	dw	0									4	7.8	11	9.55	9.7
1,2-Dichloropropane	µg/kg	dw	0									4	7.8	11	9.55	9.7
2-Butanone	µg/kg	dw	0									4	16	23	19.5	19.5
2-Hexanone	µg/kg	dw	0									4	16	23	19.5	19.5
4-Methyl-2-pentanone	µg/kg	dw	0									4	16	23	19.5	19.5
Acetone	µg/kg	dw	1	16	16	16	16					3	38	46	41.7	41
Benzene	µg/kg	dw	0									4	7.8	11	9.55	9.7
Bromodichloromethane	µg/kg	dw	0									4	7.8	11	9.55	9.7
Bromoform	µg/kg	dw	0									4	7.8	11	9.55	9.7
Bromomethane	µg/kg	dw	0									4	7.8	11	9.55	9.7
Carbon disulfide	µg/kg	dw	0									4	16	23	19.5	19.5
Carbon tetrachloride	µg/kg	dw	0									4	7.8	11	9.55	9.7
Chlorobenzene	µg/kg	dw	0									4	7.8	11	9.55	9.7
Chloroethane	µg/kg	dw	0									4	7.8	11	9.55	9.7
Chloroform	µg/kg	dw	0									4	7.8	11	9.55	9.7
Chloromethane	µg/kg	dw	0									4	7.8	11	9.55	9.7
Cis-1,2-dichloroethene	µg/kg	dw	0									4	7.8	11	9.55	9.7
Cis-1,3-dichloropropene	µg/kg	dw	0									4	7.8	11	9.55	9.7
Dibromochloromethane	µg/kg	dw	0									4	7.8	11	9.55	9.7
Ethylbenzene	µg/kg	dw	0									4	7.8	11	9.55	9.7
meta- and para-Xylenes	µg/kg	dw	0									4	7.8	11	9.55	9.7
Methylene chloride	µg/kg	dw	0									4	7.8	11	9.55	9.7
ortho-Xylene	µg/kg	dw	0									4	7.8	11	9.55	9.7
Styrene	µg/kg	dw	0									4	7.8	11	9.55	9.7
Tetrachloroethene	µg/kg	dw	0									4	7.8	11	9.55	9.7
Toluene	µg/kg	dw	0									4	7.8	11	9.55	9.7
Trans-1,2-dichloroethene	µg/kg	dw	0									4	7.8	11	9.55	9.7
Trans-1,3-dichloropropene	µg/kg	dw	0									4	7.8	11	9.55	9.7
Trichloroethene	µg/kg	dw	0									4	7.8	11	9.55	9.7
Vinyl chloride	µg/kg	dw	0									4	7.8	11	9.55	9.7
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	0									8	51	130	80.1	74
1,2-Dichlorobenzene	µg/kg	dw	0									8	51	130	80.1	74
1,3-Dichlorobenzene	µg/kg	dw	0									8	51	130	80.1	74
1,4-Dichlorobenzene	µg/kg	dw	0									8	51	130	80.1	74
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									8	51	130	80.1	74
2,4,5-Trichlorophenol	µg/kg	dw	0									8	260	670	411	380
2,4,6-Trichlorophenol	µg/kg	dw	0									8	260	670	411	380
2,4-Dichlorophenol	µg/kg	dw	0									8	260	670	411	380
2,4-Dimethylphenol	µg/kg	dw	0									8	260	670	411	380
2,4-Dinitrophenol	µg/kg	dw	0									8	1,300	3,400	2,050	1,900
2,4-Dinitrotoluene	µg/kg	dw	0									8	260	670	411	380

Table G1-55. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
2,6-Dinitrotoluene	µg/kg	dw	0									8	260	670	411	380
2-Chloronaphthalene	µg/kg	dw	0									8	51	130	80.1	74
2-Chlorophenol	µg/kg	dw	0									8	51	130	80.1	74
2-Methyl-4,6-dinitrophenol	µg/kg	dw	0									8	1,300	3,400	2,050	1,900
2-Methylphenol	µg/kg	dw	0									8	51	130	80.1	74
2-Nitroaniline	µg/kg	dw	0									8	100	260	163	150
2-Nitrophenol	µg/kg	dw	0									8	260	670	411	380
3,3-Dichlorobenzidine	µg/kg	dw	0									8	51	130	80.1	74
3-Nitroaniline	µg/kg	dw	0									8	1,300	3,400	2,050	1,900
4-Bromophenyl-phenyl ether	µg/kg	dw	0									8	51	130	80.1	74
4-Chloro-3-methylphenol	µg/kg	dw	0									8	260	670	411	380
4-Chloroaniline	µg/kg	dw	0									8	51	130	80.1	74
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									8	51	130	80.1	74
4-Methylphenol	µg/kg	dw	0									8	51	130	80.1	74
4-Nitroaniline	µg/kg	dw	0									8	1,300	3,400	2,050	1,900
4-Nitrophenol	µg/kg	dw	0									8	1,300	3,400	2,050	1,900
Benzyl alcohol	µg/kg	dw	0									8	260	670	411	380
Bis(2-chloroethoxy)methane	µg/kg	dw	0									8	51	130	80.1	74
Bis(2-chloroethyl)ether	µg/kg	dw	0									8	51	130	80.1	74
Bis(2-ethylhexyl)phthalate	µg/kg	dw	0									8	73	220	116	92.5
Butylbenzylphthalate	µg/kg	dw	0									8	51	130	80.1	74
Carbazole	µg/kg	dw	1	170	170	170	170					7	51	130	82	74
Dibenzofuran	µg/kg	dw	0									8	51	130	80.1	74
Diethylphthalate	µg/kg	dw	0									8	51	130	80.1	74
Dimethylphthalate	µg/kg	dw	0									8	51	130	80.1	74
Di-n-butylphthalate	µg/kg	dw	0									8	51	130	80.1	74
Di-n-octylphthalate	µg/kg	dw	0									8	51	130	80.1	74
Hexachlorobenzene (GC/ECD)	µg/kg	dw	4	7.25	34.8	26.3	31.5	12.8	6.393	-1.90	3.67	2	1.07	1.08	1.08	1.08
Hexachlorobenzene	µg/kg	dw	0									8	51	130	80.1	74
Hexachlorobutadiene	µg/kg	dw	0									8	51	130	80.1	74
Hexachlorocyclopentadiene	µg/kg	dw	0									8	260	670	411	380
Hexachloroethane	µg/kg	dw	0									8	51	130	80.1	74
Isophorone	µg/kg	dw	0									8	51	130	80.1	74
Nitrobenzene	µg/kg	dw	0									8	51	130	80.1	74
N-Nitrosodimethylamine	µg/kg	dw	0									8	260	670	411	380
N-nitroso-di-n-propylamine	µg/kg	dw	0									8	51	130	80.1	74
N-Nitrosodiphenylamine	µg/kg	dw	0									8	51	130	80.1	74
Pentachlorophenol	µg/kg	dw	0									8	1,300	3,400	2,050	1,900
Phenol	µg/kg	dw	0									8	51	130	80.1	74
2-Methylnaphthalene	µg/kg	dw	0									8	51	130	80.1	74
Acenaphthene	µg/kg	dw	1	81	81	81	81					7	51	130	82	74
Acenaphthylene	µg/kg	dw	0									8	51	130	80.1	74

Table G1-55. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Anthracene	µg/kg	dw	1	200	200	200	200					7	51	130	82	74
Benzo(a)anthracene	µg/kg	dw	6	130	1,700	412	145	632	258	2.43	5.93	2	51	98	74.5	74.5
Benzo(a)pyrene	µg/kg	dw	6	130	1,800	447	180	664	271	2.43	5.91	2	51	98	74.5	74.5
Benzo(b)fluoranthene	µg/kg	dw	6	110	1,500	383	185	548	224	2.42	5.90	2	51	98	74.5	74.5
Benzo(g,h,i)perylene	µg/kg	dw	5	110	970	324	170	363	162	2.18	4.81	3	51	98	74.3	74
Benzo(k)fluoranthene	µg/kg	dw	6	120	1,500	377	160	551	225	2.43	5.94	2	51	98	74.5	74.5
Chrysene	µg/kg	dw	7	100	2,000	441	180	690	261	2.61	6.85	1	98	98	98	98
Dibenz(a,h)anthracene	µg/kg	dw	1	480	480	480	480					7	51	130	82	74
Fluoranthene	µg/kg	dw	7	120	2,200	536	250	739	279	2.57	6.68	1	98	98	98	98
Fluorene	µg/kg	dw	1	71	71	71	71					7	51	130	82	74
Indeno(1,2,3-cd)pyrene	µg/kg	dw	5	90	1,100	328	160	433	194	2.21	4.89	3	51	98	74.3	74
Naphthalene	µg/kg	dw	0									8	51	130	80.1	74
Phenanthrene	µg/kg	dw	7	65	1,000	262	150	329	124	2.53	6.54	1	98	98	98	98
Pyrene	µg/kg	dw	7	120	2,600	604	260	885	335	2.58	6.73	1	98	98	98	98
Pesticides/Polychlorinated Biphenyls																
4,4'-DDD	µg/kg	dw	0									7	1.04	1.09	1.07	1.07
4,4'-DDE	µg/kg	dw	0									7	1.04	1.09	1.07	1.07
4,4'-DDT	µg/kg	dw	6	1.2	3.45	1.92	1.59	8.4E-01	3.4E-01	1.49	1.87	1	1.05	1.05	1.05	1.05
Aldrin	µg/kg	dw	0									8	1.04	1.09	1.07	1.08
alpha-BHC	µg/kg	dw	0									8	1.04	1.09	1.07	1.08
alpha-Chlordane	µg/kg	dw	0									8	1.04	1.09	1.07	1.08
beta-BHC	µg/kg	dw	0									7	1.04	1.09	1.07	1.07
delta-BHC	µg/kg	dw	0									0				
Dieldrin	µg/kg	dw	0									8	1.04	1.09	1.07	1.08
Endosulfan I	µg/kg	dw	0									8	1.04	1.09	1.07	1.08
Endosulfan II	µg/kg	dw	0									7	1.04	1.09	1.07	1.07
Endosulfan sulfate	µg/kg	dw	0									0				
Endrin aldehyde	µg/kg	dw	0									8	1.04	1.09	1.07	1.08
Endrin ketone	µg/kg	dw	0									8	1.04	1.09	1.07	1.08
Endrin	µg/kg	dw	0									7	1.04	1.09	1.07	1.08
gamma-BHC (Lindane)	µg/kg	dw	0									7	1.04	1.09	1.07	1.07
gamma-Chlordane	µg/kg	dw	0									8	1.04	1.09	1.07	1.08
Heptachlor epoxide	µg/kg	dw	1	2.18	2.18	2.18	2.18					7	1.04	1.09	1.07	1.08
Heptachlor	µg/kg	dw	0									8	1.04	1.09	1.07	1.08
Methoxychlor	µg/kg	dw	0									8	1.04	1.09	1.07	1.08
Toxaphene	µg/kg	dw	0									8	104	109	107	108
Aroclor 1016	µg/kg	dw	0									8	51.8	54.6	53.5	53.7
Aroclor 1221	µg/kg	dw	0									8	51.8	54.6	53.5	53.7
Aroclor 1232	µg/kg	dw	0									8	51.8	54.6	53.5	53.7
Aroclor 1242	µg/kg	dw	1	17.2	17.2	17.2	17.2					7	51.8	54.6	53.6	53.8
Aroclor 1248	µg/kg	dw	0									8	51.8	54.6	53.5	53.7
Aroclor 1254	µg/kg	dw	6	14.3	35.5	21.6	17.8	8.29	3.38	1.20	8.5E-02	2	53.3	54.6	54.0	54.0

Table G1-55. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Aroclor 1260	µg/kg	dw	5	11.7	134	48	25.5	51.0	22.8	1.68	2.69	3	51.8	54.2	53.3	54
Aroclor 1268	µg/kg	dw	0									8	51.8	54.6	53.5	53.7
Dioxins and Furans																
2,3,7,8-TCDD	ng/kg	dw	8	0.173	2.26	0.644	0.368	0.685	0.242	2.35	5.85	0				
Total TCDDs	ng/kg	dw	8	4.74	38.4	13.5	11.0	11.0	3.88	2.00	4.45	0				
1,2,3,7,8-PeCDD	ng/kg	dw	5	0.377	4.75	1.79	1.37	1.77	0.790	1.61	2.71	3	0.27	0.55	0.423	0.45
Total PeCDDs	ng/kg	dw	8	1.15	24.1	6.94	3.71	7.78	2.75	1.83	3.50	0				
1,2,3,4,7,8-HxCDD	ng/kg	dw	8	0.316	3.66	1.10	0.618	1.15	0.406	1.94	3.79	0				
1,2,3,6,7,8-HxCDD	ng/kg	dw	8	0.937	13	4.00	2.67	3.97	1.40	2.04	4.48	0				
1,2,3,7,8,9-HxCDD	ng/kg	dw	8	0.896	10.3	3.20	1.89	3.18	1.13	1.94	3.88	0				
Total HxCDDs	ng/kg	dw	8	8.05	125	35.6	21.4	38.7	13.7	2.18	5.11	0				
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	8	16.7	159	57.5	48.1	46.4	16.4	1.76	3.38	0				
Total HpCDDs	ng/kg	dw	8	31.9	303	112	94.5	87.3	30.9	1.77	3.46	0				
OCDD	ng/kg	dw	8	95.1	984	389	331	275	97.1	1.60	3.26	0				
2,3,7,8-TCDF	ng/kg	dw	8	1.92	17.9	8.77	7.91	5.58	1.97	0.430	-1.05	0				
Total TCDFs	ng/kg	dw	8	23.7	186	66.1	51.9	50.6	17.9	2.36	6.15	0				
1,2,3,7,8-PeCDF	ng/kg	dw	8	0.354	6.99	3.53	3.28	2.36	0.835	0.172	-1.48	0				
2,3,4,7,8-PeCDF	ng/kg	dw	8	0.724	8.41	3.24	2.57	2.31	0.818	1.86	4.17	0				
Total PeCDFs	ng/kg	dw	8	8.72	121	38.6	29.8	34.5	12.2	2.45	6.56	0				
1,2,3,4,7,8-HxCDF	ng/kg	dw	8	0.644	13.9	5.94	5.42	4.29	1.52	0.775	0.327	0				
1,2,3,6,7,8-HxCDF	ng/kg	dw	8	0.582	4.73	2.49	2.35	1.31	0.463	0.418	-0.050	0				
1,2,3,7,8,9-HxCDF	ng/kg	dw	0									8	0.18	1.5	0.521	0.415
2,3,4,6,7,8-HxCDF	ng/kg	dw	8	0.71	5.83	1.94	1.37	1.70	0.601	2.08	4.77	0				
Total HxCDFs	ng/kg	dw	8	6.07	89.5	35.9	33.3	23.8	8.43	1.76	4.72	0				
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	8	5.33	64.3	23.9	19.7	18.2	6.42	1.82	3.94	0				
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	8	0.411	6.4	3.02	3.15	1.98	0.70	0.407	-0.352	0				
Total HpCDFs	ng/kg	dw	8	10.4	126	52.4	45	34.7	12.3	1.43	2.93	0				
OCDF	ng/kg	dw	8	6.76	96.5	51.6	39.2	32.6	11.5	0.257	-1.534	0				

Table G1-56. Summary Statistics for Northern Wetland Sediment Samples (SYW-6 and SYW-10) Collected by Honeywell/Exponent in 2000 (15-30 cm)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Percent clay	%	ww	9	5	14	9.67	9	3.32	1.106	0.0323048	-1.37	0				
Percent sand	%	ww	9	2	70	43.222	52	25.772	8.59	-0.954454	-0.50442	0				
Percent silt	%	ww	9	19	84	47.111	39	23.582	7.86	0.8202987	-0.64	0				
Total organic carbon	%	dw	9	5.04	29.7	13.989	12.2	7.506	2.502	1.373983	1.64042	0				
Total solids	%	ww	9	27.9	64.4	48.056	52.2	13.878	4.626	-0.358192	-1.52099	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	9	1,870	9,760	5,051	4,330	2,860	953	0.873	-0.40499	0				
Antimony	mg/kg	dw	3	0.32	10	3.69	0.74	5.47	3.16	1.72		6	0.3	0.7	0.442	0.38
Arsenic	mg/kg	dw	9	1.3	8.4	3.24	2.9	2.100	0.700	2.16	5.46	0				
Barium	mg/kg	dw	9	73.7	131	105.4	105	18.0	6.01	-0.418	-0.087	0				
Beryllium	mg/kg	dw	9	0.21	0.66	0.36	0.31	0.162	0.054	1.25	0.251	0				
Cadmium	mg/kg	dw	9	0.14	2.9	0.899	0.53	0.938	0.313	1.41	1.59	0				
Calcium	mg/kg	dw	9	40,300	315,000	220,678	256,000	94,523	31,508	-1.16	0.231	0				
Chromium	mg/kg	dw	9	6.2	33.4	18.7	17.1	8.04	2.68	0.494	0.523	0				
Cobalt	mg/kg	dw	9	1.1	3.5	2.58	2.8	0.687	0.229	-1.20	2.17	0				
Copper	mg/kg	dw	9	8	58.3	29.9	23.6	16.2	5.41	0.801	-0.185	0				
Cyanide	mg/kg	dw	0									9	0.77	1.9	1.161	1
Iron	mg/kg	dw	9	3,250	16,900	8,491	9,360	3,970	1,323	0.939	2.04	0				
Lead	mg/kg	dw	9	12	162	44.9	33.3	45.2	15.1	2.67	7.60	0				
Magnesium	mg/kg	dw	9	2,840	8,210	4,376	3,790	1,638	546	1.84	3.85	0				
Manganese	mg/kg	dw	9	120	292	213	230	61.5	20.5	-0.155	-1.44	0				
Nickel	mg/kg	dw	9	7	42.6	19.1	17.8	10.2	3.410	1.51	3.64	0				
Potassium	mg/kg	dw	9	341	1,640	907	819	495	165	0.413	-1.38	0				
Selenium	mg/kg	dw	3	0.67	2.5	1.657	1.8	0.923	0.533	-0.682		6	0.57	1.1	0.743	0.705
Silver	mg/kg	dw	2	0.2	0.26	0.23	0.23	0.042	0.03			7	0.12	0.28	0.166	0.14
Sodium	mg/kg	dw	9	1,110	5,430	2,339	1,580	1,568	523	1.45	0.775	0				
Thallium	mg/kg	dw	4	0.89	3.2	1.598	1.15	1.082	0.541	1.85	3.46	5	0.87	1.6	1.19	1.1
Total Mercury	mg/kg	dw	8	0.07	2.3	0.97	0.835	0.789	0.279	0.620	-0.735	1	0.083	0.083	0.083	0.083
Vanadium	mg/kg	dw	9	4.5	19.6	10	9.7	5.73	1.91	0.990	-0.25996	0				
Zinc	mg/kg	dw	9	33.1	198	105	90.4	60.7	20.219	0.431	-1.55	0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									5	7.8	17	10.1	8.7
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									5	7.8	17	10.1	8.7
1,1,2-Trichloroethane	µg/kg	dw	0									5	7.8	17	10.1	8.7
1,1-Dichloroethane	µg/kg	dw	0									5	7.8	17	10.1	8.7
1,1-Dichloroethene	µg/kg	dw	0									5	7.8	17	10.1	8.7
1,2-Dichloroethane	µg/kg	dw	0									5	7.8	17	10.1	8.7

Table G1-56. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
1,2-Dichloropropane	µg/kg	dw	0									5	7.8	17	10.1	8.7
2-Butanone	µg/kg	dw	1	26	26	26	26					4	16	35	21.5	17.5
2-Hexanone	µg/kg	dw	0									5	16	35	20.4	17
4-Methyl-2-pentanone	µg/kg	dw	0									5	16	35	20.4	17
Acetone	µg/kg	dw	1	34	34	34	34					4	31	69	43	36
Benzene	µg/kg	dw	0									5	7.8	17	10.1	8.7
Bromodichloromethane	µg/kg	dw	0									5	7.8	17	10.1	8.7
Bromoform	µg/kg	dw	0									5	7.8	17	10.1	8.7
Bromomethane	µg/kg	dw	0									5	7.8	17	10.1	8.7
Carbon disulfide	µg/kg	dw	0									5	16	35	20.4	17
Carbon tetrachloride	µg/kg	dw	0									5	7.8	17	10.1	8.7
Chlorobenzene	µg/kg	dw	0									5	7.8	17	10.1	8.7
Chloroethane	µg/kg	dw	0									5	7.8	17	10.1	8.7
Chloroform	µg/kg	dw	0									5	7.8	17	10.1	8.7
Chloromethane	µg/kg	dw	0									5	7.8	17	10.1	8.7
Cis-1,2-dichloroethene	µg/kg	dw	0									5	7.8	17	10.1	8.7
Cis-1,3-dichloropropene	µg/kg	dw	0									5	7.8	17	10.1	8.7
Dibromochloromethane	µg/kg	dw	0									5	7.8	17	10.1	8.7
Ethylbenzene	µg/kg	dw	0									5	7.8	17	10.1	8.7
meta- and para-Xylenes	µg/kg	dw	0									5	7.8	17	10.1	8.7
Methylene chloride	µg/kg	dw	0									5	7.8	17	10.1	8.7
ortho-Xylene	µg/kg	dw	0									5	7.8	17	10.1	8.7
Styrene	µg/kg	dw	0									5	7.8	17	10.1	8.7
Tetrachloroethene	µg/kg	dw	0									5	7.8	17	10.1	8.7
Toluene	µg/kg	dw	0									5	7.8	17	10.1	8.7
Trans-1,2-dichloroethene	µg/kg	dw	0									5	7.8	17	10.1	8.7
Trans-1,3-dichloropropene	µg/kg	dw	0									5	7.8	17	10.1	8.7
Trichloroethene	µg/kg	dw	0									5	7.8	17	10.1	8.7
Vinyl chloride	µg/kg	dw	0									5	7.8	17	10.1	8.7
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	0									9	52	110	75.2	62
1,2-Dichlorobenzene	µg/kg	dw	0									9	52	110	75.2	62
1,3-Dichlorobenzene	µg/kg	dw	0									9	52	110	75.2	62
1,4-Dichlorobenzene	µg/kg	dw	0									9	52	110	75.2	62
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									9	52	110	75.2	62
2,4,5-Trichlorophenol	µg/kg	dw	0									9	270	570	387	320
2,4,6-Trichlorophenol	µg/kg	dw	0									9	270	570	387	320
2,4-Dichlorophenol	µg/kg	dw	0									9	270	570	387	320
2,4-Dimethylphenol	µg/kg	dw	0									9	270	570	387	320
2,4-Dinitrophenol	µg/kg	dw	0									9	1,300	2,800	1,911	1,600
2,4-Dinitrotoluene	µg/kg	dw	0									9	270	570	387	320

Table G1-56. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
2,6-Dinitrotoluene	µg/kg	dw	0									9	270	570	387	320
2-Chloronaphthalene	µg/kg	dw	0									9	52	110	75.2	62
2-Chlorophenol	µg/kg	dw	0									9	52	110	75.2	62
2-Methyl-4,6-dinitrophenol	µg/kg	dw	0									9	1,300	2,800	1,911	1,600
2-Methylphenol	µg/kg	dw	0									9	52	110	75.2	62
2-Nitroaniline	µg/kg	dw	0									9	110	220	153	130
2-Nitrophenol	µg/kg	dw	0									9	270	570	387	320
3,3-Dichlorobenzidine	µg/kg	dw	0									9	52	110	75.2	62
3-Nitroaniline	µg/kg	dw	0									9	1,300	2,800	1,911	1,600
4-Bromophenyl-phenyl ether	µg/kg	dw	0									9	52	110	75.2	62
4-Chloro-3-methylphenol	µg/kg	dw	0									9	270	570	387	320
4-Chloroaniline	µg/kg	dw	0									9	52	110	75.2	62
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									9	52	110	75.2	62
4-Methylphenol	µg/kg	dw	0									9	52	110	75.2	62
4-Nitroaniline	µg/kg	dw	0									9	1,300	2,800	1,911	1,600
4-Nitrophenol	µg/kg	dw	0									9	1,300	2,800	1,911	1,600
Benzyl alcohol	µg/kg	dw	0									9	270	570	387	320
Bis(2-chloroethoxy)methane	µg/kg	dw	0									9	52	110	75.2	62
Bis(2-chloroethyl)ether	µg/kg	dw	0									9	52	110	75.2	62
Bis(2-ethylhexyl)phthalate	µg/kg	dw	1	2,100	2,100	2,100	2,100					8	59	160	113	115
Butylbenzylphthalate	µg/kg	dw	0									9	52	110	75.2	62
Carbazole	µg/kg	dw	0									9	52	110	75.2	62
Dibenzofuran	µg/kg	dw	0									9	52	110	75.2	62
Diethylphthalate	µg/kg	dw	0									9	52	110	75.2	62
Dimethylphthalate	µg/kg	dw	0									9	52	110	75.2	62
Di-n-butylphthalate	µg/kg	dw	0									9	52	110	75.2	62
Di-n-octylphthalate	µg/kg	dw	0									9	52	110	75.2	62
Hexachlorobenzene (GC/ECD)	µg/kg	dw	5	3.64	261	124	122	91.6	41.0	4.6E-01	1.98	3	1.07	1.09	1.08	1.08
Hexachlorobenzene	µg/kg	dw	3	61	390	230	240	164.7	95.1	-2.6E-01		6	52	110	84.5	86.5
Hexachlorobutadiene	µg/kg	dw	0									9	52	110	75.2	62
Hexachlorocyclopentadiene	µg/kg	dw	0									9	270	570	387	320
Hexachloroethane	µg/kg	dw	0									9	52	110	75.2	62
Isophorone	µg/kg	dw	0									9	52	110	75.2	62
Nitrobenzene	µg/kg	dw	0									9	52	110	75.2	62
N-Nitrosodimethylamine	µg/kg	dw	0									9	270	570	387	320
N-nitroso-di-n-propylamine	µg/kg	dw	0									9	52	110	75.2	62
N-Nitrosodiphenylamine	µg/kg	dw	0									9	52	110	75.2	62
Pentachlorophenol	µg/kg	dw	0									9	1300	2800	1911	1600
Phenol	µg/kg	dw	0									9	52	110	75.2	62
2-Methylnaphthalene	µg/kg	dw	0									9	52	110	75.2	62
Acenaphthene	µg/kg	dw	0									9	52	110	75.2	62
Acenaphthylene	µg/kg	dw	0									9	52	110	75.2	62
Anthracene	µg/kg	dw	1	61	61	61	61					8	52	110	77.4	74

Table G1-56. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Benzo(a)anthracene	µg/kg	dw	5	74	350	181	180	111	49.7	0.885	0.419	4	53	110	77.8	74
Benzo(a)pyrene	µg/kg	dw	4	91	340	213	210	105	52.3	0.140	-0.039	5	52	110	72.6	62
Benzo(b)fluoranthene	µg/kg	dw	4	77	280	179	180	86.4	43.2	-0.044	-0.715	5	53	110	79.6	86
Benzo(g,h,i)perylene	µg/kg	dw	3	130	180	150	140	26.5	15.3	1.46		6	52	110	75	74
Benzo(k)fluoranthene	µg/kg	dw	4	86	280	184	185	80.1	40.1	-0.071	0.819	5	53	110	79.6	86
Chrysene	µg/kg	dw	6	68	350	188	165	113	46.2	0.452	-1.69	3	62	110	86	86
Dibenz(a,h)anthracene	µg/kg	dw	1	64	64	64	64					8	52	110	77.4	74
Fluoranthene	µg/kg	dw	6	85	470	261	235	160	65.3	0.235	-2.31	3	62	110	86	86
Fluorene	µg/kg	dw	0									9	52	110	75.2	62
Indeno(1,2,3-cd)pyrene	µg/kg	dw	3	120	210	157	140	47.3	27.3	1.39		6	52	110	75	74
Naphthalene	µg/kg	dw	0									9	52	110	75.2	62
Phenanthrene	µg/kg	dw	4	74	250	191	220	79.7	39.8	-1.75	3.19	5	53	110	79.6	86
Pyrene	µg/kg	dw	5	120	540	328	390	170	76.2	-0.125	-1.65	4	53	110	77.8	74
Pesticides/Polychlorinated Biphenyls																
4,4'-DDD	µg/kg	dw	0									9	1.04	1.09	1.07	1.07
4,4'-DDE	µg/kg	dw	3	1.25	2.43	1.72	1.48	0.626	0.361	1.47		5	1.05	1.09	1.07	1.07
4,4'-DDT	µg/kg	dw	5	1.42	4.73	2.67	2.24	1.430	0.640	0.781	-1.07	3	1.05	1.27	1.13	1.07
Aldrin	µg/kg	dw	0									9	1.04	1.09	1.07	1.07
alpha-BHC	µg/kg	dw	0									9	1.04	1.09	1.07	1.07
alpha-Chlordane	µg/kg	dw	0									9	1.04	1.09	1.07	1.07
beta-BHC	µg/kg	dw	1	1.17	1.17	1.17	1.17					7	1.05	1.09	1.08	1.08
delta-BHC	µg/kg	dw	0									0				
Dieldrin	µg/kg	dw	2	1.42	2.91	2.17	2.17	1.05	0.745			6	1.05	1.09	1.07	1.07
Endosulfan I	µg/kg	dw	0									9	1.04	1.09	1.07	1.07
Endosulfan II	µg/kg	dw	0									9	1.04	1.09	1.07	1.07
Endosulfan sulfate	µg/kg	dw	0									0				
Endrin aldehyde	µg/kg	dw	1	2.04	2.04	2.04	2.04					8	1.04	1.09	1.07	1.07
Endrin ketone	µg/kg	dw	0									9	1.04	1.09	1.07	1.07
Endrin	µg/kg	dw	0									9	1.04	1.09	1.07	1.07
gamma-BHC (Lindane)	µg/kg	dw	0									9	1.04	1.09	1.07	1.07
gamma-Chlordane	µg/kg	dw	2	1.71	2.16	1.94	1.94	0.318	0.225			7	1.05	1.09	1.07	1.07
Heptachlor epoxide	µg/kg	dw	3	1.26	2.34	1.90	2.09	0.565	0.326	-1.36		5	1.05	1.09	1.07	1.07
Heptachlor	µg/kg	dw	0									9	1.04	1.09	1.07	1.07
Methoxychlor	µg/kg	dw	0									9	1.04	1.09	1.07	1.07
Toxaphene	µg/kg	dw	0									9	104	109	107	107
Aroclor 1016	µg/kg	dw	0									9	52	54.5	53.5	53.5
Aroclor 1221	µg/kg	dw	0									9	52	54.5	53.5	53.5
Aroclor 1232	µg/kg	dw	0									9	52	54.5	53.5	53.5
Aroclor 1242	µg/kg	dw	1	21.1	21.1	21.1	21.1					8	52	54.5	53.4	53.3
Aroclor 1248	µg/kg	dw	1	12	12	12	12					8	52	54.5	53.6	53.9
Aroclor 1254	µg/kg	dw	4	24.6	56.3	35.9	31.3	14.9	7.46	1.16	0.25989	5	52.5	54.3	53.5	53.5
Aroclor 1260	µg/kg	dw	3	22.8	269	113.5	48.7	135	78.1	1.66		6	52.5	54.5	53.7	53.9
Aroclor 1268	µg/kg	dw	1	157	157	157	157					8	52	54.5	53.4	53.3

Table G1-56. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Dioxins and Furans																
2,3,7,8-TCDD	ng/kg	dw	6	0.181	0.659	0.395	0.387	0.182	0.074	3.1E-01	-9.8E-01	3	0.1	0.16	0.12	0.1
Total TCDDs	ng/kg	dw	9	0.73	10.8	6.25	4.72	3.70	1.23	4.3E-02	-1.59	0				
1,2,3,7,8-PeCDD	ng/kg	dw	3	0.28	1.47	0.768	0.553	0.623	0.360	1.37		6	0.1	0.63	0.362	0.385
Total PeCDDs	ng/kg	dw	9	0.3	8.91	3.15	1.67	2.97	0.990	9.9E-01	5.8E-02	0				
1,2,3,4,7,8-HxCDD	ng/kg	dw	7	0.185	1.27	0.501	0.389	0.357	0.135	2.11	4.99	2	0.1	0.25	0.175	0.175
1,2,3,6,7,8-HxCDD	ng/kg	dw	9	0.12	4.1	1.40	1.33	1.17	0.389	1.59	3.94	0				
1,2,3,7,8,9-HxCDD	ng/kg	dw	8	0.142	3.37	1.13	1.047	0.995	0.352	1.82	4.46	1	0.58	0.58	0.58	0.58
Total HxCDDs	ng/kg	dw	9	0.78	34.3	11.55	11.5	9.91	3.304	1.54	3.57	0				
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	9	1.24	56.9	20.5	19	16.3	5.45	1.32	2.87	0				
Total HpCDDs	ng/kg	dw	9	2.15	107	39.74	35.5	31.3	10.4	1.10	2.10	0				
OCDD	ng/kg	dw	9	5.28	285	140	121	105	34.9	6.9E-02	-1.62	0				
2,3,7,8-TCDF	ng/kg	dw	9	0.242	225	32.9	3.71	72.6	24.2	2.91	8.61	0				
Total TCDFs	ng/kg	dw	9	2.5	543	99.5	44.3	169	56.3	2.83	8.24	0				
1,2,3,7,8-PeCDF	ng/kg	dw	9	0.156	22.2	5.54	1.49	7.19	2.40	1.78	3.43	0				
2,3,4,7,8-PeCDF	ng/kg	dw	9	0.15	20.1	4.06	1.98	6.19	2.06	2.69	7.65	0				
Total PeCDFs	ng/kg	dw	9	1.23	92.8	29.0	26	26.9	8.98	1.82	4.38	0				
1,2,3,4,7,8-HxCDF	ng/kg	dw	9	0.232	12.5	5.25	1.92	4.97	1.66	3.9E-01	-2.05	0				
1,2,3,6,7,8-HxCDF	ng/kg	dw	9	0.135	3.27	1.72	1.41	1.19	0.398	7.6E-02	-1.72	0				
1,2,3,7,8,9-HxCDF	ng/kg	dw	3	0.183	0.368	0.260	0.228	0.096	0.056	1.32		6	0.1	0.39	0.201667	0.15
2,3,4,6,7,8-HxCDF	ng/kg	dw	9	0.12	1.68	0.877	0.779	0.514	0.171	4.9E-01	-4.2E-01	0				
Total HxCDFs	ng/kg	dw	9	1.25	37.4	19.9	22.6	12.418	4.14	-4.1E-01	-9.5E-01	0				
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	9	0.914	15.3	8.57	9.9	4.61	1.54	-6.3E-01	-1.9E-01	0				
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	8	0.11	22.2	4.42	2.27	7.38	2.611	2.53	6.73	1	0.41	0.41	0.41	0.41
Total HpCDFs	ng/kg	dw	9	0.83	103	27.4	25.5	30.5	10.2	2.20	5.80	0				
OCDF	ng/kg	dw	9	0.905	50.5	22.1	21.6	18.2	6.059	3.3E-01	-1.45	0				

Table G1-57. Summary Statistics for Southern Wetland Sediment Samples (SYW-12 and SYW-19) Collected by Honeywell/Exponent in 2000 (0-15 cm)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Percent clay	%	ww	9	1	7	4.78	5	2.108	0.703	-0.861	-0.2752	0				
Percent sand	%	ww	9	48	94	78.1	80	14.2	4.73	-1.17	1.74	0				
Percent silt	%	ww	9	5	46	17.1	15	12.8	4.28	1.56	2.81	0				
Total organic carbon	%	dw	9	4.79	27.5	12.0	7.81	7.67	2.56	1.32	0.821	0				
Total solids	%	ww	9	38.7	82.9	63.4	59.5	15.4	5.12	-0.0265	-1.10	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	9	2,410	7,090	4,438	4,920	1,533	511	0.218	-0.6301	0				
Antimony	mg/kg	dw	6	0.33	1.3	0.715	0.61	0.338	0.138	1.09	1.29	3	0.23	0.32	0.267	0.25
Arsenic	mg/kg	dw	9	1.6	10.1	5.2	4.9	2.93	0.976	0.295	-1.04	0				
Barium	mg/kg	dw	9	31.4	410	221	176	139	46.4	0.117	-1.60	0				
Beryllium	mg/kg	dw	9	0.17	0.63	0.427	0.46	0.149	0.050	-0.453	-0.5989	0				
Cadmium	mg/kg	dw	9	0.73	8.8	3.18	1.9	3.27	1.09	1.42	0.371	0				
Calcium	mg/kg	dw	9	91,400	231,000	165,044	152,000	50,856	16,952	0.136	-1.27	0				
Chromium	mg/kg	dw	9	11.6	115	54.3	48.7	30.6	10.2	0.954	1.06	0				
Cobalt	mg/kg	dw	9	1.5	5	3.73	4.3	1.317	0.439	-0.959	-0.6189	0				
Copper	mg/kg	dw	9	17.5	167	67.9	63.8	45.1	15.0	1.27	2.52	0				
Cyanide	mg/kg	dw	0									9	0.61	1.1	0.82	0.85
Iron	mg/kg	dw	9	6,830	12,700	9,857	9,420	2,047	682	-0.175	-1.1496	0				
Lead	mg/kg	dw	9	23.3	274	115	92.4	88.1	29.4	1.05	0.065	0				
Magnesium	mg/kg	dw	9	5,450	17,000	10,020	7,930	4,096	1,365	0.891	-0.7646	0				
Manganese	mg/kg	dw	9	140	303	228	242	59.9	20.0	-0.123	-1.75	0				
Nickel	mg/kg	dw	9	8.1	48.6	27.5	26.8	12.4	4.15	0.067	-0.0701	0				
Potassium	mg/kg	dw	9	420	1,880	888	882	420	140	1.74	4.36	0				
Selenium	mg/kg	dw	6	0.87	1.8	1.38	1.45	0.352	0.144	-0.391	-1.25	3	0.45	0.59	0.513	0.5
Silver	mg/kg	dw	8	0.15	2.7	0.971	0.675	0.949	0.336	0.871	-0.2846	1	0.091	0.091	0.091	0.091
Sodium	mg/kg	dw	9	242	1,780	949	1,230	582	194	-0.049	-1.94	0				
Thallium	mg/kg	dw	0									9	0.6	1.1	0.809	0.83
Total Mercury	mg/kg	dw	8	0.054	32.1	10.9	8.1	11.3	3.98	0.94196	0.218	1	0.035	0.035	0.035	0.035
Vanadium	mg/kg	dw	9	5.1	15.5	10.8	12.4	3.65	1.22	-0.701	-0.7353	0				
Zinc	mg/kg	dw	9	81.4	241	135	111	58.4	19.5	1.25	0.199	0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									9	5.6	15	8.54	8.3
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									9	5.6	15	8.54	8.3

Table G1-57. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
1,1,2-Trichloroethane	µg/kg	dw	0									9	5.6	15	8.54	8.3
1,1-Dichloroethane	µg/kg	dw	0									9	5.6	15	8.54	8.3
1,1-Dichloroethene	µg/kg	dw	0									9	5.6	15	8.54	8.3
1,2-Dichloroethane	µg/kg	dw	0									9	5.6	15	8.54	8.3
1,2-Dichloropropane	µg/kg	dw	0									9	5.6	15	8.54	8.3
2-Butanone	µg/kg	dw	3	4.2	5.7	5.13	5.5	0.814	0.470	-1.62		6	11	20	14.8	13.5
2-Hexanone	µg/kg	dw	0									9	11	30	17.1	17
4-Methyl-2-pentanone	µg/kg	dw	0									9	11	30	17.1	17
Acetone	µg/kg	dw	0									9	20	63	31.9	25
Benzene	µg/kg	dw	4	3.9	60	18.3	4.7	27.8	13.9	2.00	4.00	5	5.6	8.3	6.64	6.4
Bromodichloromethane	µg/kg	dw	0									9	5.6	15	8.54	8.3
Bromoform	µg/kg	dw	0									9	5.6	15	8.54	8.3
Bromomethane	µg/kg	dw	0									9	5.6	15	8.54	8.3
Carbon disulfide	µg/kg	dw	0									9	11	30	17.1	17
Carbon tetrachloride	µg/kg	dw	0									9	5.6	15	8.54	8.3
Chlorobenzene	µg/kg	dw	6	2	600	146	77	226	92.4	2.25995	5.30	3	5.6	6.9	6.17	6
Chloroethane	µg/kg	dw	0									9	5.6	15	8.54	8.3
Chloroform	µg/kg	dw	0									9	5.6	15	8.54	8.3
Chloromethane	µg/kg	dw	0									9	5.6	15	8.54	8.3
Cis-1,2-dichloroethene	µg/kg	dw	0									9	5.6	15	8.54	8.3
Cis-1,3-dichloropropene	µg/kg	dw	0									9	5.6	15	8.54	8.3
Dibromochloromethane	µg/kg	dw	0									9	5.6	15	8.54	8.3
Ethylbenzene	µg/kg	dw	3	7	24	13.4	9.3	9.22	5.32	1.61		6	5.6	9.8	7.17	6.65
meta- and para-Xylenes	µg/kg	dw	0									9	5.6	36	10.9	8.3
Methylene chloride	µg/kg	dw	2	1.3	2.1	1.7	1.7	0.566	0.4			7	5.6	15	9.14	9.2
ortho-Xylene	µg/kg	dw	0									9	5.6	15	8.54	8.3
Styrene	µg/kg	dw	1	6.4	6.4	6.4	6.4					8	5.6	15	8.4	7.6
Tetrachloroethene	µg/kg	dw	0									9	5.6	15	8.54	8.3
Toluene	µg/kg	dw	1	1.7	1.7	1.7	1.7					8	5.6	39	11.8	8.75
Trans-1,2-dichloroethene	µg/kg	dw	0									9	5.6	15	8.54	8.3
Trans-1,3-dichloropropene	µg/kg	dw	0									9	5.6	15	8.54	8.3
Trichloroethene	µg/kg	dw	0									9	5.6	15	8.54	8.3
Vinyl chloride	µg/kg	dw	0									9	5.6	15	8.54	8.3
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	5	200	9,200	3,580	3,200	3,464	1,549	1.29	1.99	4	39	410	133	42
1,2-Dichlorobenzene	µg/kg	dw	5	610	5,800	3,282	3,000	2,096	937	-0.025	-1.53	4	39	410	133	42
1,3-Dichlorobenzene	µg/kg	dw	4	62	2,100	808	535	896	448	1.55	2.68	5	39	830	273	44

Table G1-57. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
1,4-Dichlorobenzene	µg/kg	dw	6	54	11,000	5,196	4,700	4,476	1,827	0.263	-1.69	3	39	410	163	40
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									9	39	830	235	120
2,4,5-Trichlorophenol	µg/kg	dw	0									9	200	4,300	1,212	590
2,4,6-Trichlorophenol	µg/kg	dw	0									9	200	4,300	1,212	590
2,4-Dichlorophenol	µg/kg	dw	0									9	200	4,300	1,212	590
2,4-Dimethylphenol	µg/kg	dw	0									9	200	4,300	1,212	590
2,4-Dinitrophenol	µg/kg	dw	0									9	1,000	21,000	6,056	3,000
2,4-Dinitrotoluene	µg/kg	dw	0									9	200	4,300	1,212	590
2,6-Dinitrotoluene	µg/kg	dw	0									9	200	4,300	1,212	590
2-Chloronaphthalene	µg/kg	dw	0									9	39	830	235	120
2-Chlorophenol	µg/kg	dw	0									9	39	830	235	120
2-Methyl-4,6-dinitrophenol	µg/kg	dw	0									9	1,000	21,000	6,056	3,000
2-Methylphenol	µg/kg	dw	0									9	39	830	235	120
2-Nitroaniline	µg/kg	dw	0									9	79	1,700	479	230
2-Nitrophenol	µg/kg	dw	0									9	200	4,300	1,212	590
3,3-Dichlorobenzidine	µg/kg	dw	0									9	39	830	235.22	120
3-Nitroaniline	µg/kg	dw	0									9	1,000	21,000	6,056	3,000
4-Bromophenyl-phenyl ether	µg/kg	dw	0									9	39	830	235	120
4-Chloro-3-methylphenol	µg/kg	dw	0									9	200	4,300	1,212	590
4-Chloroaniline	µg/kg	dw	0									9	39	830	235	120
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									9	39	830	235	120
4-Methylphenol	µg/kg	dw	2	130	1,000	565	565	615.1829	435			7	39	830	247	54
4-Nitroaniline	µg/kg	dw	0									9	1,000	21,000	6,056	3,000
4-Nitrophenol	µg/kg	dw	0									9	1,000	21,000	6,056	3,000
Benzyl alcohol	µg/kg	dw	0									9	200	4,300	1,212	590
Bis(2-chloroethoxy)methane	µg/kg	dw	0									9	39	830	235	120
Bis(2-chloroethyl)ether	µg/kg	dw	0									9	39	830	235	120
Bis(2-ethylhexyl)phthalate	µg/kg	dw	5	470	1,800	1,114	890	644	288	0.37292	-3.05	4	71	410	230	220
Butylbenzylphthalate	µg/kg	dw	0									9	39	830	235	120
Carbazole	µg/kg	dw	4	89	2,600	965	585	1,120	560	1.68	3.03	5	39	410	163	54
Dibenzofuran	µg/kg	dw	3	46	1,900	742	280	1,010	583	1.63		6	39	410	188	162
Diethylphthalate	µg/kg	dw	0									9	39	830	235	120
Dimethylphthalate	µg/kg	dw	0									9	39	830	235	120
Di-n-butylphthalate	µg/kg	dw	0									9	39	830	245	130
Di-n-octylphthalate	µg/kg	dw	0									9	39	830	235	120
Hexachlorobenzene (GC/ECD)	µg/kg	dw	9	2.69	5,110	1,216	106	1,760	587	1.58	2.23	0				
Hexachlorobenzene	µg/kg	dw	3	630	12,000	4,810	1,800	6,254	3,611	1.66		6	39	830	236	49
Hexachlorobutadiene	µg/kg	dw	0									9	39	830	235	120
Hexachlorocyclopentadiene	µg/kg	dw	0									9	200	4,300	1,212	590
Hexachloroethane	µg/kg	dw	0									9	39	830	235	120

Table G1-57. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Isophorone	µg/kg	dw	0									9	39	830	235	120
Nitrobenzene	µg/kg	dw	0									9	39	830	235	120
N-Nitrosodimethylamine	µg/kg	dw	0									9	200	4,300	1,212	590
N-nitroso-di-n-propylamine	µg/kg	dw	0									9	39	830	235	120
N-Nitrosodiphenylamine	µg/kg	dw	0									9	39	830	235	120
Pentachlorophenol	µg/kg	dw	0									9	1,000	21,000	6,056	3,000
Phenol	µg/kg	dw	4	89	4,800	1,567	690	2,178	1,089	1.88	3.61	5	39	830	273	44
2-Methylnaphthalene	µg/kg	dw	4	320	1,300	615	420	465	232	1.80	3.23	5	39	410	117	44
Acenaphthene	µg/kg	dw	4	78	2,500	812	335	1,132	566	1.93	3.79	5	39	410	163	54
Acenaphthylene	µg/kg	dw	8	79	1,900	745	610	691	244	0.79929	-0.6715	1	39	39	39	39
Anthracene	µg/kg	dw	7	120	10,000	2,376	780	3,532	1,335	2.17	4.95	2	39	270	155	155
Benzo(a)anthracene	µg/kg	dw	8	160	14,000	3,035	1,800	4,550	1,609	2.54	6.79	1	39	39	39	39
Benzo(a)pyrene	µg/kg	dw	8	180	13,000	3,169	2,500	4,165	1,473	2.33	5.96	1	39	39	39	39
Benzo(b)fluoranthene	µg/kg	dw	8	220	11,000	2,906	2,150	3,564	1,260	2.00	4.52	1	39	39	39	39
Benzo(g,h,i)perylene	µg/kg	dw	8	160	6,800	1,746	1,205	2,176	769	2.19	5.31	1	39	39	39	39
Benzo(k)fluoranthene	µg/kg	dw	8	200	10,000	2,779	2,200	3,206	1,133	1.92	4.28	1	39	39	39	39
Chrysene	µg/kg	dw	8	230	15,000	3,575	2,650	4,832	1,708	2.35	6.01	1	39	39	39	39
Dibenz(a,h)anthracene	µg/kg	dw	6	66	3,100	856	465	1,165	476	1.89	3.77	3	39	410	240	270
Fluoranthene	µg/kg	dw	8	330	33,000	7,595	5,100	10,739	3,797	2.36	6.02	1	39	39	39	39
Fluorene	µg/kg	dw	4	82	2,700	888	385	1,217	608	1.91	3.74	5	39	410	163	54
Indeno(1,2,3-cd)pyrene	µg/kg	dw	8	120	7,100	1,855	1,650	2,259	799	2.16	5.35	1	39	39	39	39
Naphthalene	µg/kg	dw	5	340	5,000	2,528	2,000	1,804	807	0.366	-0.6607	4	39	410	133	42
Phenanthrene	µg/kg	dw	8	190	22,000	4,704	2,800	7,210	2,549	2.50	6.59	1	39	39	39	39
Pyrene	µg/kg	dw	8	310	26,000	5,891	4,000	8,446	2,986	2.42	6.28	1	39	39	39	39
Pesticides/Polychlorinated Biphenyls																
4,4'-DDD	µg/kg	dw	2	1.43	1.96	1.70	1.70	0.375	0.265			7	1.01	1.09	1.0643	1.07
4,4'-DDE	µg/kg	dw	6	1.32	26.4	7.55	3.72	9.523	3.89	2.14	4.74	0				
4,4'-DDT	µg/kg	dw	8	2.07	56.3	23.7	13.4	23.1	8.16	0.525	-1.96	0				
Aldrin	µg/kg	dw	4	21	45.4	30.4	27.6	10.5	5.26	1.43	2.52	4	1.05	5.43	2.16	1.08
alpha-BHC	µg/kg	dw	1	2.48	2.48	2.48	2.48					7	1.01	1.09	1.06	1.06
alpha-Chlordane	µg/kg	dw	4	2.99	10.9	5.65	4.36	3.68	1.84	1.48	1.82	4	1.01	1.09	1.07	1.08
beta-BHC	µg/kg	dw	2	1.71	10.7	6.21	6.21	6.36	4.50			7	1.05	1.09	1.07	1.07
delta-BHC	µg/kg	dw	4	1.72	3.14	2.38	2.34	0.714	0.357	0.130	-5.03	0				
Dieldrin	µg/kg	dw	8	2.63	25.9	13.1	12.5	10.2	3.590	0.08192	-2.52	1	1.05	1.05	1.05	1.05
Endosulfan I	µg/kg	dw	3	7.85	10.9	9.52	9.82	1.546	0.893	-0.831		6	1.01	1.09	1.05	1.05
Endosulfan II	µg/kg	dw	0									6	1.01	1.09	1.06	1.065
Endosulfan sulfate	µg/kg	dw	0									0				
Endrin aldehyde	µg/kg	dw	1	2.13	2.13	2.13	2.13					5	1.01	1.09	1.05	1.05
Endrin ketone	µg/kg	dw	2	5.88	16.8	11.3	11.3	7.722	5.46			7	1.01	1.09	1.06	1.05
Endrin	µg/kg	dw	0									8	1.01	1.09	1.06	1.06

Table G1-57. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
gamma-BHC (Lindane)	µg/kg	dw	3	1.28	6.25	3.29	2.34	2.62	1.51	1.42		6	1.05	1.09	1.0667	1.06
gamma-Chlordane	µg/kg	dw	6	2.29	18.8	7.79	5.00	6.22	2.54	1.40	1.29	0				
Heptachlor epoxide	µg/kg	dw	6	2.19	14.5	7.00	4.14	5.84	2.39	0.861	-1.90	2	1.08	1.09	1.09	1.09
Heptachlor	µg/kg	dw	0									9	1.01	1.09	1.06	1.06
Methoxychlor	µg/kg	dw	0									8	1.05	1.09	1.07	1.07
Toxaphene	µg/kg	dw	0									9	101	109	106	106
Aroclor 1016	µg/kg	dw	0									9	52.3	54.7	53.3	52.8
Aroclor 1221	µg/kg	dw	0									9	52.3	54.7	53.3	52.8
Aroclor 1232	µg/kg	dw	0									9	52.3	54.7	53.3	52.8
Aroclor 1242	µg/kg	dw	9	16.3	541	175	66.3	203	67.8	1.07	-0.5213	0				
Aroclor 1248	µg/kg	dw	0									9	52.3	54.7	53.3	52.8
Aroclor 1254	µg/kg	dw	8	42.4	483	268	250	186	65.6	0.042	-2.38	1	52.7	52.7	52.7	52.7
Aroclor 1260	µg/kg	dw	9	29.5	576	185	144	155	51.6	2.39	6.68	0				
Aroclor 1268	µg/kg	dw	0									9	52.3	54.7	53.3	52.8
Dioxins and Furans																
2,3,7,8-TCDD	ng/kg	dw	5	2.61	71.6	28.2	16.8	28.1	12.6	1.10	0.240	0				
Total TCDDs	ng/kg	dw	5	108	4,540	1,662	824	1,825	816	1.24	0.694	0				
1,2,3,7,8-PeCDD	ng/kg	dw	5	11.4	455	173	102	180	80.324	1.19	0.695	0				
Total PeCDDs	ng/kg	dw	5	65.9	4,400	1,679	935	1,778	795	1.07	0.054	0				
1,2,3,4,7,8-HxCDD	ng/kg	dw	5	7.96	401	143	70.5	161	71.8	1.35	1.25	0				
1,2,3,6,7,8-HxCDD	ng/kg	dw	5	21	860	322	177	339	152	1.25	0.913	0				
1,2,3,7,8,9-HxCDD	ng/kg	dw	5	14.8	446	170	95.9	175	78.3	1.23	0.812	0				
Total HxCDDs	ng/kg	dw	5	126	5,280	1,961	1,010	2,109	943	1.23	0.680	0				
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	5	71.3	2,070	854	561	786	351	1.06	0.582	0				
Total HpCDDs	ng/kg	dw	5	129	3,500	1,473	968	1,335	597	0.96702	0.148	0				
OCDD	ng/kg	dw	5	250	2,700	1,632	1,720	899	402	-0.783	1.50	0				
2,3,7,8-TCDF	ng/kg	dw	5	137	1,070	524	442	368	164	0.797	-0.08	0				
Total TCDFs	ng/kg	dw	5	929	4,960	3,094	3,340	1,708	764	-0.281	-2.12	0				
1,2,3,7,8-PeCDF	ng/kg	dw	5	51.6	553	273	224	202	90.4	0.533	-1.16	0				
2,3,4,7,8-PeCDF	ng/kg	dw	5	156	726	459	477	258	115	-0.147	-2.68	0				
Total PeCDFs	ng/kg	dw	5	605	3,280	1,961	1,910	1,151	515	0.007	-2.37	0				
1,2,3,4,7,8-HxCDF	ng/kg	dw	5	72.1	506	309	332	171	76.5	-0.424	-0.8514	0				
1,2,3,6,7,8-HxCDF	ng/kg	dw	5	16.3	147	89.7	98.6	50.3	22.5	-0.628	-0.0167	0				
1,2,3,7,8,9-HxCDF	ng/kg	dw	5	2.51	12.8	8.09	9.08	3.92	1.76	-0.483	-0.1449	0				
2,3,4,6,7,8-HxCDF	ng/kg	dw	5	8.1	49	29.9	33.2	15.6	7.00	-0.378	-0.3369	0				
Total HxCDFs	ng/kg	dw	5	188	1,300	786	827	437	195	-0.346	-0.8547	0				
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	5	53	391	219	216	128	57.4	0.099	-0.2876	0				
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	5	24.1	83.9	56.18	63.7	22.9	10.2	-0.431	-0.3631	0				
Total HpCDFs	ng/kg	dw	5	121	718	422	430	227	102	-0.046	-0.3849	0				
OCDF	ng/kg	dw	5	207	774	480	481	232	104	0.112	-1.74	0				

Table G1-58. Summary Statistics for Southern Wetland Sediment Samples (SYW-12 and SYW-19) collected by Honeywell/Exponent in 2000 (15-30 cm)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Percent clay	%	ww	8	2	12	5.63	5	3.07	1.08	1.42	2.34	0				
Percent sand	%	ww	8	26	86	65	74	22.5	7.96	-0.853	-0.736	0				
Percent silt	%	ww	8	11	66	29.4	21.5	20.5	7.23	0.865	-0.517	0				
Total organic carbon	%	dw	8	8.38	21	12.9	11.4	4.09	1.44	1.14	1.04	0				
Total solids	%	ww	8	50.5	84.5	65.6	65.9	11.5	4.06	0.297	-0.794	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	8	2,300	15,100	5,184	3,610	4,276	1,512	2.21	5.21	0				
Antimony	mg/kg	dw	7	0.43	5.5	1.36	0.79	1.84	0.694	2.59	6.77	1	0.27	0.27	0.27	0.27
Arsenic	mg/kg	dw	8	2.4	10.8	6.34	6	3.04	1.074	0.154	-1.445006698	0				
Barium	mg/kg	dw	8	98.2	655	256.775	212	180	63.6	1.81	3.75	0				
Beryllium	mg/kg	dw	8	0.25	0.88	0.4125	0.36	0.208	0.074	1.91	4.11	0				
Cadmium	mg/kg	dw	8	0.67	80.4	15.6	5.95	26.8	9.491	2.58	6.85	0				
Calcium	mg/kg	dw	8	70,700	302,000	197,475	220,000	87,617	30,977	-0.578	-1.007023564	0				
Chromium	mg/kg	dw	8	14.5	594	143	90.9	186	65.8	2.59	7.03	0				
Cobalt	mg/kg	dw	8	1.4	9.3	4.35	4.1	2.314	0.818	1.40	3.27	0				
Copper	mg/kg	dw	8	43.5	517	136	76.0	158	55.9	2.55	6.71	0				
Cyanide	mg/kg	dw	1	1.4	1.4	1.4	1.4					7	0.59	0.93	0.747	0.72
Iron	mg/kg	dw	8	3,810	27,000	11,023	9,730	6,892	2,437	2.11	5.46	0				
Lead	mg/kg	dw	8	21.8	376	173	113	137	48.4	0.564	-1.560090727	0				
Magnesium	mg/kg	dw	8	3,420	13,900	8,088	7,580	3,773	1,334	0.503	-1.01843995	0				
Manganese	mg/kg	dw	8	143	348	256	272	62.956	22.3	-0.545	0.474	0				
Nickel	mg/kg	dw	8	11.9	100	40.8	35.65	27.088	9.58	1.66	3.48	0				
Potassium	mg/kg	dw	8	138	3,750	1,002	529	1,173	415	2.30	5.61	0				
Selenium	mg/kg	dw	8	0.64	4.1	1.39	1.1	1.12	0.395	2.61	7.09	0				
Silver	mg/kg	dw	7	0.38	11.5	2.52	1.3	3.99	1.51	2.57	6.68	1	0.099	0.099	0.099	0.099
Sodium	mg/kg	dw	8	406	3,870	1,713	1,445	1,323	468	0.755	-0.824	0				
Thallium	mg/kg	dw	1	1	1	1	1					7	0.58	0.98	0.769	0.8
Total Mercury	mg/kg	dw	8	0.11	60.2	12.8975	7.25	19.9	7.03	2.42	6.26	0				
Vanadium	mg/kg	dw	8	4.3	31.1	11.7	10.6	8.47	2.99	2.07	4.97	0				
Zinc	mg/kg	dw	8	65.2	866	265	172	254	90.0	2.36	5.99	0				
Volatile Organic Compounds																
1,1,1-Trichloroethane	µg/kg	dw	0									8	6	49	12.8	7.8
1,1,2,2-Tetrachloroethane	µg/kg	dw	0									8	6	49	12.8	7.8
1,1,2-Trichloroethane	µg/kg	dw	0									8	6	49	12.8	7.8
1,1-Dichloroethane	µg/kg	dw	0									8	6	49	12.8	7.8
1,1-Dichloroethene	µg/kg	dw	0									8	6	49	12.8	7.8
1,2-Dichloroethane	µg/kg	dw	0									8	6	49	12.8	7.8
1,2-Dichloropropane	µg/kg	dw	0									8	6	49	12.8	7.8
2-Butanone	µg/kg	dw	6	3.8	86	40.0	41	28.8	11.8	0.498	0.351	2	12	14	13.0	13
2-Hexanone	µg/kg	dw	0									8	12	98	25.6	15.5
4-Methyl-2-pentanone	µg/kg	dw	0									8	12	98	25.6	15.5
Acetone	µg/kg	dw	4	18	570	265	235	228	114	0.759	1.81	4	24	110	61.5	56
Benzene	µg/kg	dw	5	1.3	160	48.3	27	63.7	28.5	2.02	4.28	3	6.9	7.6	7.23	7.2
Bromodichloromethane	µg/kg	dw	0									8	6	49	12.8	7.8
Bromoform	µg/kg	dw	0									8	6	49	12.8	7.8
Bromomethane	µg/kg	dw	0									8	6	49	12.8	7.8
Carbon disulfide	µg/kg	dw	4	2.8	11	7.4	7.9	3.422	1.711	-0.827	1.5	4	12	15	13.8	14
Carbon tetrachloride	µg/kg	dw	0									8	6	49	12.8	7.8

Table G1-58. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Chlorobenzene	µg/kg	dw	5	4.2	3,500	821.04	39	1,514	677	2.12	4.54	2	7.2	7.6	7.4	7.4
Chloroethane	µg/kg	dw	0									8	6	49	12.8	7.8
Chloroform	µg/kg	dw	0									8	6	49	12.8	7.8
Chloromethane	µg/kg	dw	0									8	6	49	12.8	7.8
Cis-1,2-dichloroethene	µg/kg	dw	1	2	2	2	2					7	6	49	13.4	7.6
Cis-1,3-dichloropropene	µg/kg	dw	0									8	6	49	12.8	7.8
Dibromochloromethane	µg/kg	dw	0									8	6	49	12.8	7.8
Ethylbenzene	µg/kg	dw	4	12	62	26.8	16.5	23.6	11.8	1.94	3.79	4	6	7.6	6.93	7.05
meta- and para-Xylenes	µg/kg	dw	2	67	100	83.5	83.5	23.3	16.5			6	6	32	14.3	7.4
Methylene chloride	µg/kg	dw	2	1.5	2.6	2.05	2.05	0.778	0.55			6	6.9	49	14.8	8.4
ortho-Xylene	µg/kg	dw	2	26	47	36.5	36.5	14.849	10.5			6	6	8.8	7.42	7.4
Styrene	µg/kg	dw	2	2.8	4.5	3.65	3.65	1.20	0.85			6	6	49	14.3	7.4
Tetrachloroethene	µg/kg	dw	0									8	6	49	12.8	7.8
Toluene	µg/kg	dw	2	4.9	24	14.5	14.5	13.5	9.55			6	6.9	20	13.0	12.8
Trans-1,2-dichloroethene	µg/kg	dw	0									8	6	49	12.8	7.8
Trans-1,3-dichloropropene	µg/kg	dw	0									8	6	49	12.8	7.8
Trichloroethene	µg/kg	dw	0									8	6	49	12.8	7.8
Vinyl chloride	µg/kg	dw	0									8	6	49	12.8	7.8
Semivolatile Organic Compounds																
1,2,4-Trichlorobenzene	µg/kg	dw	4	160	18,000	6,765	4,450	7,874	3,937	1.46	2.18	4	46	390	137	56.5
1,2-Dichlorobenzene	µg/kg	dw	4	450	5,800	3,213	3,300	2,200	1,100	-0.232	1.17	4	46	390	137	56.5
1,3-Dichlorobenzene	µg/kg	dw	4	140	6,200	2,080	990	2,781	1,391	1.85	3.54	4	46	390	137	56.5
1,4-Dichlorobenzene	µg/kg	dw	4	1,300	10,000	6,250	6,850	3,739	1,869	-0.808	0.281	4	46	390	137	56.5
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									8	46	600	275	227.5
2,4,5-Trichlorophenol	µg/kg	dw	0									8	240	3,100	1,423	1,170
2,4,6-Trichlorophenol	µg/kg	dw	0									8	240	3,100	1,423	1,170
2,4-Dichlorophenol	µg/kg	dw	0									8	240	3,100	1,423	1,170
2,4-Dimethylphenol	µg/kg	dw	0									8	240	3,100	1,423	1,170
2,4-Dinitrophenol	µg/kg	dw	0									8	1,200	15,000	7,050	5,850
2,4-Dinitrotoluene	µg/kg	dw	0									8	240	3,100	1,423	1,170
2,6-Dinitrotoluene	µg/kg	dw	0									8	240	3,100	1,423	1,170
2-Chloronaphthalene	µg/kg	dw	0									8	46	600	275	227.5
2-Chlorophenol	µg/kg	dw	0									8	46	600	275	227.5
2-Methyl-4,6-dinitrophenol	µg/kg	dw	0									8	1,200	15,000	7,050	5,850
2-Methylphenol	µg/kg	dw	0									8	46	600	275	227.5
2-Nitroaniline	µg/kg	dw	0									8	93	1,200	559	460
2-Nitrophenol	µg/kg	dw	0									8	240	3,100	1,423	1,170
3,3-Dichlorobenzidine	µg/kg	dw	0									8	46	600	275	227.5
3-Nitroaniline	µg/kg	dw	0									8	1,200	15,000	7,050	5,850
4-Bromophenyl-phenyl ether	µg/kg	dw	0									8	46	600	275	227.5
4-Chloro-3-methylphenol	µg/kg	dw	0									8	240	3,100	1,423	1,170
4-Chloroaniline	µg/kg	dw	0									8	46	600	275	227.5
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									8	46	600	275	227.5
4-Methylphenol	µg/kg	dw	0									8	46	600	275	227.5
4-Nitroaniline	µg/kg	dw	0									8	1,200	15,000	7,050	5,850
4-Nitrophenol	µg/kg	dw	0									8	1,200	15,000	7,050	5,850
Benzyl alcohol	µg/kg	dw	0									8	240	3,100	1,423	1,170
Bis(2-chloroethoxy)methane	µg/kg	dw	0									8	46	600	275	227.5
Bis(2-chloroethyl)ether	µg/kg	dw	0									8	46	600	275	227.5
Bis(2-ethylhexyl)phthalate	µg/kg	dw	2	120	1,800	960	960	1,188	840			6	49	600	272	250

Table G1-58. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Butylbenzylphthalate	µg/kg	dw	0									8	46	600	275	227.5
Carbazole	µg/kg	dw	5	78	2,300	1,093	1,400	981	439	-0.064	-2.22	3	48	420	172	49
Dibenzofuran	µg/kg	dw	3	960	1,100	1,017	990	73.7	42.6	1.41		5	46	600	162	49
Diethylphthalate	µg/kg	dw	0									8	46	600	275	227.5
Dimethylphthalate	µg/kg	dw	0									8	46	600	275	227.5
Di-n-butylphthalate	µg/kg	dw	1	120	120	120	120					7	46	600	305	390
Di-n-octylphthalate	µg/kg	dw	0									8	46	600	275	227.5
Hexachlorobenzene (GC/ECD)	µg/kg	dw	7	2.21	1,470	295	46.6	543	205	2.23	4.99	0				
Hexachlorobenzene	µg/kg	dw	1	1,000	1,000	1,000	1,000					7	46	580	228	65
Hexachlorobutadiene	µg/kg	dw	0									8	46	600	275	227.5
Hexachlorocyclopentadiene	µg/kg	dw	0									8	240	3,100	1,423	1,170
Hexachloroethane	µg/kg	dw	0									8	46	600	275	227.5
Isophorone	µg/kg	dw	0									8	46	600	275	227.5
Nitrobenzene	µg/kg	dw	0									8	46	600	275	227.5
N-Nitrosodimethylamine	µg/kg	dw	0									8	240	3,100	1,423	1,170
N-nitroso-di-n-propylamine	µg/kg	dw	0									8	46	600	275	227.5
N-Nitrosodiphenylamine	µg/kg	dw	0									8	46	600	275	227.5
Pentachlorophenol	µg/kg	dw	0									8	1,200	15,000	7,050	5,850
Phenol	µg/kg	dw	3	120	2,200	1,047	820	1,058	611	0.920		5	46	580	226	65
2-Methylnaphthalene	µg/kg	dw	3	720	830	777	780	55.076	31.798	-0.271		5	46	420	126	49
Acenaphthene	µg/kg	dw	5	61	1,900	1,232	1,300	700	313	-1.53	2.90	3	48	65	54	49
Acenaphthylene	µg/kg	dw	8	160	1,700	851	770	683	241	0.113	-2.46	0				
Anthracene	µg/kg	dw	7	220	6,500	2,501	380	2,928	1,107	0.707	-1.82	1	420	420	420	420
Benzo(a)anthracene	µg/kg	dw	7	560	11,000	4,749	4,100	4,343	1,642	0.339	-1.88	1	48	48	48	48
Benzo(a)pyrene	µg/kg	dw	7	530	11,000	5,303	7,100	4,499	1,701	-0.084	-2.31	1	48	48	48	48
Benzo(b)fluoranthene	µg/kg	dw	7	420	10,000	4,550	4,900	4,066	1,537	0.119	-2.13	1	48	48	48	48
Benzo(g,h,i)perylene	µg/kg	dw	7	370	6,800	3,370	4,400	2,836	1,072	-0.070	-2.35	1	48	48	48	48
Benzo(k)fluoranthene	µg/kg	dw	7	450	9,000	4,336	5,700	3,759	1,421	-0.008	-2.25	1	48	48	48	48
Chrysene	µg/kg	dw	7	660	12,000	5,259	5,200	4,707	1,779	0.303	-1.81	1	48	48	48	48
Dibenz(a,h)anthracene	µg/kg	dw	6	160	3,300	1,478	1,205	1,454	593	0.225	-2.71	2	48	390	219	219
Fluoranthene	µg/kg	dw	8	120	28,000	10,428	8,650	10,889	3,850	0.459	-1.49	0				
Fluorene	µg/kg	dw	4	73	1,500	771	755	786	393	0.012	-5.91	4	46	600	271	219.5
Indeno(1,2,3-cd)pyrene	µg/kg	dw	7	370	6,300	3,280	4,500	2,744	1,037	-0.186	-2.53	1	48	48	48	48
Naphthalene	µg/kg	dw	6	52	5,100	2,035	2,000	1,753	716	1.03	1.69	2	48	65	56.5	56.5
Phenanthrene	µg/kg	dw	8	88	20,000	7,399	6,000	7,773	2,748	0.446	-1.49	0				
Pyrene	µg/kg	dw	6	480	21,000	8,297	6,100	8,682	3,544	0.533	-1.68	2	48	420	234	234
Pesticides/Polychlorinated Biphenyls																
4,4'-DDD	µg/kg	dw	1	8.27	8.27	8.27	8.27					6	1.07	1.1	1.08	1.085
4,4'-DDE	µg/kg	dw	4	3.41	16.3	8.795	7.74	5.409	2.70	1.11	2.15	1	1.09	1.09	1.09	1.09
4,4'-DDT	µg/kg	dw	7	3.12	44.8	17.0	11.9	14.9	5.62	1.16	1.07	0				
Aldrin	µg/kg	dw	3	3.35	49.6	28.1	31.3	23.3	13.4	-0.610		2	1.07	1.09	1.08	1.08
alpha-BHC	µg/kg	dw	2	2.35	5.7	4.025	4.025	2.37	1.68			3	1.07	1.1	1.09	1.09
alpha-Chlordane	µg/kg	dw	4	4.91	18.4	11.6	11.5	5.56	2.78	0.081	0.989	3	1.08	1.1	1.09	1.09
beta-BHC	µg/kg	dw	2	2.06	2.49	2.28	2.28	0.304	0.215			6	1.07	1.1	1.09	1.085
delta-BHC	µg/kg	dw	3	4.49	10.4	6.63	5.01	3.272	1.89	1.68		0				
Dieldrin	µg/kg	dw	7	2.04	38.5	14.12857	13.5	12.9	4.89	1.16	1.26	0				
Endosulfan I	µg/kg	dw	0									8	1.05	1.1	1.08	1.08
Endosulfan II	µg/kg	dw	0									4	1.07	1.1	1.09	1.09
Endosulfan sulfate	µg/kg	dw	1	6.15	6.15	6.15	6.15					0				
Endrin aldehyde	µg/kg	dw	1	2.51	2.51	2.51	2.51					6	1.07	1.1	1.08	1.08

Table G1-58. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Endrin ketone	µg/kg	dw	2	6.06	8.17	7.115	7.115	1.492	1.055			5	1.07	1.1	1.08	1.08
Endrin	µg/kg	dw	5	1.68	13.3	5.13	2.89	4.744	2.122	1.861705502	3.507194905	3	1.08	1.1	1.09	1.09
gamma-BHC (Lindane)	µg/kg	dw	1	3.95	3.95	3.95	3.95					4	1.07	1.1	1.09	1.085
gamma-Chlordane	µg/kg	dw	7	1.53	22.4	10.2	7.87	7.945	3.003	0.400	-1.268757547	0				
Heptachlor epoxide	µg/kg	dw	3	11	33.5	25.4	31.8	12.5	7.233	-1.696242966		3	1.07	1.1	1.09	1.09
Heptachlor	µg/kg	dw	0									8	1.05	1.1	1.08	1.08
Methoxychlor	µg/kg	dw	2	8.71	11.6	10.155	10.2	2.04	1.445			4	1.05	1.1	1.08	1.08
Toxaphene	µg/kg	dw	0									8	105	110	108	108
Aroclor 1016	µg/kg	dw	0									8	52.3	54.9	54	54.15
Aroclor 1221	µg/kg	dw	0									8	52.3	54.9	54	54.15
Aroclor 1232	µg/kg	dw	0									8	52.3	54.9	54	54.15
Aroclor 1242	µg/kg	dw	8	13.7	1,130	306	155	377	133	1.79	3.23	0				
Aroclor 1248	µg/kg	dw	0									8	52.3	54.9	54	54.15
Aroclor 1254	µg/kg	dw	8	50	750	339.9625	261	282	99.6	0.595	-1.370387329	0				
Aroclor 1260	µg/kg	dw	7	52.5	372	181.9571	194	111	42.1	0.495	0.229	1	116	116	116	116
Aroclor 1268	µg/kg	dw	0									8	52.3	54.9	54	54.15
Dioxins and Furans																
2,3,7,8-TCDD	ng/kg	dw	4	4.17	22.4	12.3	11.2	7.91	3.96	0.613	-0.647	0				
Total TCDDs	ng/kg	dw	4	187	1,030	544	479	366	183	0.857	0.094	0				
1,2,3,7,8-PeCDD	ng/kg	dw	4	22.7	114	57.9	47.5	40.0	20.0	1.29	1.56	0				
Total PeCDDs	ng/kg	dw	4	235	1,130	579	475	404	202	1.12	0.356	0				
1,2,3,4,7,8-HxCDD	ng/kg	dw	4	13.9	74.1	40.4	36.9	26.4	13.2	0.613	-1.011866031	0				
1,2,3,6,7,8-HxCDD	ng/kg	dw	4	42.7	204	109	95.5	69.6	34.8	1.01	0.833	0				
1,2,3,7,8,9-HxCDD	ng/kg	dw	4	23.4	113	60.7	53.3	38.8	19.4	0.960	0.580	0				
Total HxCDDs	ng/kg	dw	4	254	1,230	688	634	424	212	0.604	-0.712	0				
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	4	96.1	664	358.025	336	235	118	0.536	1.17	0				
Total HpCDDs	ng/kg	dw	4	169	1,220	655	615	434	217	0.530	1.30	0				
OCDD	ng/kg	dw	4	109	2,190	1,022	894	879	439	0.784	0.877	0				
2,3,7,8-TCDF	ng/kg	dw	4	146	605	418	461	194	97.1	-1.22514058	2.26	0				
Total TCDFs	ng/kg	dw	4	865	4,590	2,949	3,170	1,543	771	-0.836	1.87	0				
1,2,3,7,8-PeCDF	ng/kg	dw	4	55.6	637	291	236	247	124	1.23	2.14	0				
2,3,4,7,8-PeCDF	ng/kg	dw	4	121	623	445	518	224	112	-1.585166408	2.59	0				
Total PeCDFs	ng/kg	dw	4	542	3,600	2,058	2,045	1,257	628	0.060	1.12	0				
1,2,3,4,7,8-HxCDF	ng/kg	dw	4	64.1	1,180	520	419	474	237	1.17	1.92	0				
1,2,3,6,7,8-HxCDF	ng/kg	dw	4	16.8	350	153.975	125	142	71.2	1.09	1.45	0				
1,2,3,7,8,9-HxCDF	ng/kg	dw	4	2.72	23.6	11.1	8.94	8.98	4.49	1.23	1.79	0				
2,3,4,6,7,8-HxCDF	ng/kg	dw	4	6.83	87.9	41.7	36.1	33.9	17.0	0.934	1.66	0				
Total HxCDFs	ng/kg	dw	4	185	2,410	1,137	977	934	467	0.958	1.61	0				
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	4	47.6	721	326	268	287	144	1.07	1.43	0				
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	4	16.8	240	99.9	71.4	97.9	48.9	1.48	2.40	0				
Total HpCDFs	ng/kg	dw	4	92	1,270	593	506	497	249	0.966	1.44	0				
OCDF	ng/kg	dw	4	154	716	457	479	232	116	-0.549	1.47	0				

Table G1-59. Summary Statistics for Supplemental Wetland SYW-6 Data (0-15 cm) Collected by NYSDEC in 2002.

			Detects									Non-Detects				
Analyte	Concentration Units	Measurement Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Total organic carbon	mg/kg	dw	5	61,200	176,000	105,620	107,000	47,718	21,340	0.70	-0.25	0				
Total Metals and Mercury																
Aluminum	mg/kg	dw	5	1,550	7,700	4,590	5,310	2,802	1,253	-0.2	-2.8	0				
Antimony	mg/kg	dw	2	0.80	2.2	1.50	1.50	0.99	0.70			3	0.05	0.19	0.12	0.12
Arsenic	mg/kg	dw	5	0.54	5.9	2.5	1.9	2.19	0.98	1.1	0.32	0				
Barium	mg/kg	dw	5	78	151	117	114	27.6	12.3	-0.3	0.0	0				
Beryllium	mg/kg	dw	5	0.07	0.49	0.30	0.40	0.19	0.09	-0.47	-2.9	0				
Cadmium	mg/kg	dw	5	0.46	5.4	2.2	2.0	1.98	0.89	1.3	1.61	0				
Calcium	mg/kg	dw	5	38,500	275,000	168,560	193,000	106,053	47,428	-0.35	-2.6	0				
Chromium	mg/kg	dw	5	11.2	89	36	30.9	31.4	14.0	1.7	3.16	0				
Cobalt	mg/kg	dw	5	1.5	6.7	3.6	3.2	2.19	0.98	0.63	-1.21	0				
Copper	mg/kg	dw	5	9.5	72	34.1	26.0	24.7	11.1	1.0	0.1	0				
Iron	mg/kg	dw	5	3,290	24,000	10,056	8,270	8,500	3,801	1.4	2.0	0				
Lead	mg/kg	dw	5	18	143	65	58	48.9	21.8	1.17	1.4	0				
Magnesium	mg/kg	dw	5	2,950	13,000	6,098	4,320	4,016	1,796	1.8	3.5	0				
Manganese	mg/kg	dw	5	222	406	297	287	67.0	30.0	1.23	2.79	0				
Nickel	mg/kg	dw	5	5.5	52	26	17	18.9	8.44	0.6	-1.23	0				
Potassium	mg/kg	dw	5	372	1,030	684	734	275	123	0.02	-1.9	0				
Selenium	mg/kg	dw	2	0.88	1.0	0.94	0.94	0.08	0.06			3	0.11	0.27	0.20	0.22
Silver	mg/kg	dw	4	0.30	1.4	0.69	0.52	0.50	0.25	1.45	1.77	1	0.02	0.02	0.02	0.02
Sodium	mg/kg	dw	5	456	2,380	1,252	1,120	710	317	1.1	2.0	0				
Thallium	mg/kg	dw	2	0.73	1.4	1.1	1.1	0.47	0.34			3	0.11	0.27	0.20	0.22
Vanadium	mg/kg	dw	5	3.4	20	12	15.6	7.32	3.28	-0.4	-2.7	0				
Zinc	mg/kg	dw	5	33.6	195	106	76	70.1	31.3	0.50	-2.4	0				
Mercury	mg/kg	dw	5	0.19	4.5	1.26	0.39	1.84	0.82	2.1	4.3	0				
Semivolatile Organic Compounds																
1,2-Dichlorobenzene	µg/kg	dw	0									5	420	1,900	1,102	950
1,3-Dichlorobenzene	µg/kg	dw	0									5	420	1,900	1,102	950
1,4-Dichlorobenzene	µg/kg	dw	0									5	420	1,900	1,102	950
1,2,4-Trichlorobenzene	µg/kg	dw	0									5	420	1,900	1,102	950
Hexachlorobenzene	µg/kg	dw	0									5	420	1,900	1,102	950
2-Chloronaphthalene	µg/kg	dw	0									5	420	1,900	1,102	950
Naphthalene	µg/kg	dw	0									5	420	1,900	1,102	950
Acenaphthylene	µg/kg	dw	2	320	540	430	430	156	110			3	420	1,500	887	740
Acenaphthene	µg/kg	dw	0									5	420	1,900	1,102	950
Fluorene	µg/kg	dw	2	110	260	185	185	106	75			3	420	1,500	887	740
Phenanthrene	µg/kg	dw	4	60	2,000	958	885	837	418	0.4	-0.9	1	1,500	1,500	1,500	1,500
Anthracene	µg/kg	dw	3	100	720	453	540	319	184	-1.1		2	420	1,500	960	960
2-Methylnaphthalene	µg/kg	dw	0									5	420	1,900	1,102	950
Fluoranthene	µg/kg	dw	5	210	3,800	1,802	990	1,804	807	0.5	-3.2	0				

Table G1-59. (cont.)

			Detects									Non-Detects				
Analyte	Concentration Units	Measurement Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Pyrene	µg/kg	dw	5	240	3,400	1,680	1,100	1,608	719	0.4	-3.1	0				
Benz[a]anthracene	µg/kg	dw	4	180	2,200	1,200	1,210	999	499	0.0	-5.0	1	1,500	1,500	1,500	1,500
Chrysene	µg/kg	dw	5	170	2,100	988	670	907	405	0.5	-2.8	0				
Benzo[b]fluoranthene	µg/kg	dw	4	250	2,600	1,370	1,315	1,074	537	0.2	-3.2	1	1,500	1,500	1,500	1,500
Benzo[k]fluoranthene	µg/kg	dw	4	94	850	484	495	364	182	-0.1	-4.5	1	1,500	1,500	1,500	1,500
Benzo[a]pyrene	µg/kg	dw	4	190	2,000	1,035	975	819	410	0.3	-2.8	1	1,500	1,500	1,500	1,500
Indeno[1,2,3-cd]pyrene	µg/kg	dw	4	120	1,400	625	490	556	278	1.2	1.6	1	1,500	1,500	1,500	1,500
Dibenz[a,h]anthracene	µg/kg	dw	1	260	260	260	260					4	420	1,900	1,140	1,120
Benzo[ghi]perylene	µg/kg	dw	4	110	1,400	618	480	553	277	1.3	2.3	1	1,500	1,500	1,500	1,500
Phenol	µg/kg	dw	0									5	420	1,900	1,102	950
2-Methylphenol	µg/kg	dw	0									5	420	1,900	1,102	950
4-Methylphenol	µg/kg	dw	1	100	100	100	100					4	420	1,900	1,140	1,120
2,4-Dimethylphenol	µg/kg	dw	0									5	420	1,900	1,102	950
2-Chlorophenol	µg/kg	dw	0									5	420	1,900	1,102	950
2,4-Dichlorophenol	µg/kg	dw	0									5	420	1,900	1,102	950
4-Chloro-3-methylphenol	µg/kg	dw	0									5	420	1,900	1,102	950
2,4,6-Trichlorophenol	µg/kg	dw	0									5	420	1,900	1,102	950
2,4,5-Trichlorophenol	µg/kg	dw	0									5	840	3,900	2,228	1,900
Pentachlorophenol	µg/kg	dw	0									5	840	3,900	2,228	1,900
2-Nitrophenol	µg/kg	dw	0									5	420	1,900	1,102	950
4-Nitrophenol	µg/kg	dw	0									5	840	3,900	2,228	1,900
2,4-Dinitrophenol	µg/kg	dw	0									5	840	3,900	2,228	1,900
2-Methyl-4,6-dinitrophenol	µg/kg	dw	0									5	840	3,900	2,228	1,900
Hexachloroethane	µg/kg	dw	0									5	420	1,900	1,102	950
Hexachlorobutadiene	µg/kg	dw	0									5	420	1,900	1,102	950
Hexachlorocyclopentadiene	µg/kg	dw	0									5	420	1,900	1,102	950
bis[2-chloroethyl]ether	µg/kg	dw	0									5	420	1,900	1,102	950
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									5	420	1,900	1,102	950
4-Bromophenyl-phenyl ether	µg/kg	dw	0									5	420	1,900	1,102	950
bis[2-chloroethoxy]methane	µg/kg	dw	0									5	420	1,900	1,102	950
2,2'-Oxybis[1-chloropropane]	µg/kg	dw	0									5	420	1,900	1,102	950
Dimethyl phthalate	µg/kg	dw	0									5	420	1,900	1,102	950
Diethyl phthalate	µg/kg	dw	0									5	420	1,900	1,102	950
Di-*n*-butyl phthalate	µg/kg	dw	0									5	420	1,900	1,102	950
Butylbenzyl phthalate	µg/kg	dw	0									5	420	1,900	1,102	950
bis[2-Ethylhexyl]phthalate	µg/kg	dw	1	130	130	130	130					4	420	1,900	1,140	1,120
Di-*n*-octyl phthalate	µg/kg	dw	0									5	420	1,900	1,102	950
Isophorone	µg/kg	dw	0									5	420	1,900	1,102	950
Dibenzofuran	µg/kg	dw	0									5	420	1,900	1,102	950
Carbazole	µg/kg	dw	0									5	420	1,900	1,102	950
Nitrobenzene	µg/kg	dw	0									5	420	1,900	1,102	950
N-nitroso-di-*n*-propylamine	µg/kg	dw	0									5	420	1,900	1,102	950
2-Nitroaniline	µg/kg	dw	0									5	840	3,900	2,228	1,900
3-Nitroaniline	µg/kg	dw	0									5	840	3,900	2,228	1,900
4-Nitroaniline	µg/kg	dw	0									5	840	3,900	2,228	1,900
2,6-Dinitrotoluene	µg/kg	dw	0									5	420	1,900	1,102	950
2,4-Dinitrotoluene	µg/kg	dw	0									5	420	1,900	1,102	950
N-nitrosodiphenylamine	µg/kg	dw	0									5	420	1,900	1,102	950
4-Chloroaniline	µg/kg	dw	0									5	420	1,900	1,102	950
3,3'-Dichlorobenzidine	µg/kg	dw	0									5	420	1,900	1,102	950

Table G1-60. Summary Statistics for Supplemental Wetland SYW-6 Data (15-30 cm) Collected by NYSDEC in 2002.

			Detects									Non-Detects				
Analyte	Concentration Units	Measurement Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Total organic carbon	mg/kg	dw	6	61,800	208,000	117,933	95,500	58,099	23,719	0.92	-0.88	0				
Total Metals and Mercury																
Aluminum	mg/kg	dw	6	634	13,700	5,754	4,195	4,556	1,860	1.2	1.4	0				
Antimony	mg/kg	dw	4	0.15	1.2	0.54	0.40	0.47	0.24	1.3	1.5	2	0.06	0.09	0.07	0.07
Arsenic	mg/kg	dw	6	1.20	7.7	3.0	2.0	2.50	1.02	1.7	2.63	0				
Barium	mg/kg	dw	6	111	224	141	128	41.3	16.9	2.3	5.4	0				
Beryllium	mg/kg	dw	6	0.02	0.88	0.35	0.23	0.31	0.13	1.15	0.9	0				
Cadmium	mg/kg	dw	6	0.41	4.6	1.8	1.2	1.63	0.67	1.2	0.87	0				
Calcium	mg/kg	dw	6	37,600	336,000	207,783	249,500	118,649	48,438	-0.71	-1.4	0				
Chromium	mg/kg	dw	6	9.1	86	31	18	30	12	1.5	1.78	0				
Cobalt	mg/kg	dw	6	1.1	7.1	3.1	2.2	2.21	0.90	1.45	1.65	0				
Copper	mg/kg	dw	6	12.1	122	42	19	44	18	1.6	1.6	0				
Iron	mg/kg	dw	6	1,920	32,400	10,223	5,360	11,261	4,597	2.1	4.6	0				
Lead	mg/kg	dw	6	12	178	79	53	77	32	0.50	-2.3	0				
Magnesium	mg/kg	dw	6	2,340	9,580	4,253	3,300	2,652	1,083	2.3	5.4	0				
Manganese	mg/kg	dw	6	156	434	251	230	113	46	0.80	-0.52	0				
Nickel	mg/kg	dw	6	8.2	75	28	16	27	11	1.4	1.06	0				
Potassium	mg/kg	dw	6	165	979	526	496	318	130	0.35	-1.2	0				
Selenium	mg/kg	dw	2	0.68	1.2	0.94	0.94	0.37	0.26			4	0.13	0.24	0.20	0.21
Silver	mg/kg	dw	3	0.27	0.9	0.66	0.83	0.34	0.20	-1.69		3	0.02	0.03	0.03	0.03
Sodium	mg/kg	dw	6	501	1,650	963	926	436	178	0.6	-0.3	0				
Thallium	mg/kg	dw	3	0.71	1.9	1.2	1.0	0.62	0.36	1.32		3	0.13	0.24	0.19	0.19
Vanadium	mg/kg	dw	6	1.6	36	14	9.3	12.4	5.1	1.4	1.8	0				
Zinc	mg/kg	dw	6	22.5	239	93	54	89.9	36.7	1.04	-0.4	0				
Mercury	mg/kg	dw	6	0.11	1.6	0.71	0.45	0.68	0.28	0.7	-2.0	0				
Semivolatile Organic Compounds																
1,2-Dichlorobenzene	µg/kg	dw	0									6	460	6,300	1,728	760
1,3-Dichlorobenzene	µg/kg	dw	0									6	460	6,300	1,728	760
1,4-Dichlorobenzene	µg/kg	dw	0									6	460	6,300	1,728	760
1,2,4-Trichlorobenzene	µg/kg	dw	0									6	460	6,300	1,728	760
Hexachlorobenzene	µg/kg	dw	0									6	460	6,300	1,728	760
2-Chloronaphthalene	µg/kg	dw	0									6	460	6,300	1,728	760
Naphthalene	µg/kg	dw	1	7,600	7,600	7,600	7,600					5	460	1,400	814	720
Acenaphthylene	µg/kg	dw	2	78	7,500	3,789	3,789	5,248	3,711			4	460	1,400	838	745
Acenaphthene	µg/kg	dw	1	6,300	6,300	6,300	6,300					5	460	1,400	814	720
Fluorene	µg/kg	dw	1	12,000	12,000	12,000	12,000					5	460	1,400	814	720
Phenanthrene	µg/kg	dw	5	120	63,000	12,750	200	28,091	12,563	2.2	5.0	1	460	460	460	460
Anthracene	µg/kg	dw	3	89	18,000	6,063	99	10,338	5,969	1.7		3	460	1,400	887	800
2-Methylnaphthalene	µg/kg	dw	1	5,600	5,600	5,600	5,600					5	460	1,400	814	720
Fluoranthene	µg/kg	dw	6	59	86,000	14,650	470	34,955	14,270	2.4	6.0	0				

Table G1-60. (cont.)

			Detects									Non-Detects				
Analyte	Concentration Units	Measurement Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Pyrene	µg/kg	dw	6	72	83,000	14,139	450	33,735	13,772	2.4	6.0	0				
Benz[a]anthracene	µg/kg	dw	5	170	49,000	10,000	280	21,802	9,750	2.2	5.0	1	460	460	460	460
Chrysene	µg/kg	dw	6	50	48,000	8,182	265	19,507	7,964	2.4	6.0	0				
Benzo[b]fluoranthene	µg/kg	dw	5	240	59,000	12,032	320	26,256	11,742	2.2	5.0	1	460	460	460	460
Benzo[k]fluoranthene	µg/kg	dw	3	100	22,000	7,417	150	12,630	7,292	1.7		3	460	1,400	887	800
Benzo[a]pyrene	µg/kg	dw	5	190	48,000	9,770	210	21,371	9,558	2.2	5.0	1	460	460	460	460
Indeno[1,2,3-cd]pyrene	µg/kg	dw	4	92	28,000	7,098	150	13,935	6,967	2.0	4.0	2	460	800	630	630
Dibenz[a,h]anthracene	µg/kg	dw	1	7,900	7,900	7,900	7,900					5	460	1,400	814	720
Benzo[ghi]perylene	µg/kg	dw	4	76	28,000	7,092	145	13,939	6,970	2.0	4.0	2	460	800	630	630
Phenol	µg/kg	dw	1	650	650	650	650					5	460	1,400	814	720
2-Methylphenol	µg/kg	dw	0									6	460	6,300	1,728	760
4-Methylphenol	µg/kg	dw	1	1,100	1,100	1,100	1,100					5	460	1,400	814	720
2,4-Dimethylphenol	µg/kg	dw	1	820	820	820	820					5	460	1,400	814	720
2-Chlorophenol	µg/kg	dw	0									6	460	6,300	1,728	760
2,4-Dichlorophenol	µg/kg	dw	0									6	460	6,300	1,728	760
4-Chloro-3-methylphenol	µg/kg	dw	0									6	460	6,300	1,728	760
2,4,6-Trichlorophenol	µg/kg	dw	0									6	460	6,300	1,728	760
2,4,5-Trichlorophenol	µg/kg	dw	0									6	930	13,000	3,522	1,500
Pentachlorophenol	µg/kg	dw	0									6	930	13,000	3,522	1,500
2-Nitrophenol	µg/kg	dw	0									6	460	6,300	1,728	760
4-Nitrophenol	µg/kg	dw	0									6	930	13,000	3,522	1,500
2,4-Dinitrophenol	µg/kg	dw	0									6	930	13,000	3,522	1,500
2-Methyl-4,6-dinitrophenol	µg/kg	dw	0									6	930	13,000	3,522	1,500
Hexachloroethane	µg/kg	dw	0									6	460	6,300	1,728	760
Hexachlorobutadiene	µg/kg	dw	0									6	460	6,300	1,728	760
Hexachlorocyclopentadiene	µg/kg	dw	0									6	460	6,300	1,728	760
bis[2-chloroethyl]ether	µg/kg	dw	0									6	460	6,300	1,728	760
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									6	460	6,300	1,728	760
4-Bromophenyl-phenyl ether	µg/kg	dw	0									6	460	6,300	1,728	760
bis[2-chloroethoxy]methane	µg/kg	dw	0									6	460	6,300	1,728	760
2,2'-Oxybis[1-chloropropane]	µg/kg	dw	0									6	460	6,300	1,728	760
Dimethyl phthalate	µg/kg	dw	0									6	460	6,300	1,728	760
Diethyl phthalate	µg/kg	dw	0									6	460	6,300	1,728	760
Di-*n*-butyl phthalate	µg/kg	dw	1	170	170	170	170					5	460	6,300	1,794	720
Butylbenzyl phthalate	µg/kg	dw	0									6	460	6,300	1,728	760
bis[2-Ethylhexyl]phthalate	µg/kg	dw	1	240	240	240	240					5	460	6,300	1,794	720
Di-*n*-octyl phthalate	µg/kg	dw	0									6	460	6,300	1,728	760
Isophorone	µg/kg	dw	0									6	460	6,300	1,728	760
Dibenzofuran	µg/kg	dw	1	7,600	7,600	7,600	7,600					5	460	1,400	814	720
Carbazole	µg/kg	dw	1	6,600	6,600	6,600	6,600					5	460	1,400	814	720
Nitrobenzene	µg/kg	dw	0									6	460	6,300	1,728	760
N-nitroso-di-*n*-propylamine	µg/kg	dw	0									6	460	6,300	1,728	760
2-Nitroaniline	µg/kg	dw	0									6	930	13,000	3,522	1,500
3-Nitroaniline	µg/kg	dw	0									6	930	13,000	3,522	1,500
4-Nitroaniline	µg/kg	dw	0									6	930	13,000	3,522	1,500
2,6-Dinitrotoluene	µg/kg	dw	0									6	460	6,300	1,728	760
2,4-Dinitrotoluene	µg/kg	dw	0									6	460	6,300	1,728	760
N-nitrosodiphenylamine	µg/kg	dw	0									6	460	6,300	1,728	760
4-Chloroaniline	µg/kg	dw	0									6	460	6,300	1,728	760
3,3'-Dichlorobenzidine	µg/kg	dw	0									6	460	6,300	1,728	760

Table G1-61. Summary Statistics for Dredge Spoil Samples Collected by Honeywell/Exponent in 2000 (all depths)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes																
Percent clay	%	ww	43	6.00	23.0	15.0	15.0	4.33	0.66	-0.10	-0.59	0				
Percent sand	%	ww	41	1.00	81.0	31.3	31.0	19.4	3.03	0.65	0.37	2	0	0	0	0
Percent silt	%	ww	43	13.0	88.0	55.1	55.0	18.6	2.84	-0.19	-0.37	0				
Total organic carbon	%	dw	43	1.27	20.5	8.46	8.30	4.55	0.69	0.96	1.24	0				
Total solids	%	ww	44	40.4	91.5	70.8	67.6	13.6	2.04	-0.29	-0.79	0				
Total Metals and Cyanide																
Aluminum	mg/kg	dw	44	1,010	23,300	7,441	6,200	4,102	618	1.47	3.95	0				
Antimony	mg/kg	dw	33	0.24	1.30	0.48	0.40	0.23	0.04	1.86	4.23	11	0.22	0.47	0.29	0.28
Arsenic	mg/kg	dw	44	0.62	13.3	6.55	6.45	3.20	0.48	0.14	-0.66	0				
Barium	mg/kg	dw	44	49.1	227	86.3	84.2	25.2	3.79	4.18	23.2	0				
Beryllium	mg/kg	dw	44	0.09	1.00	0.46	0.44	0.17	0.03	0.38	1.57	0				
Cadmium	mg/kg	dw	23	0.07	4.30	0.77	0.68	0.83	0.17	3.82	16.7	21	0.03	0.06	0.04	0.03
Calcium	mg/kg	dw	44	25,800	357,000	202,180	213,000	104,311	15,726	-0.16	-1.49	0				
Chromium	mg/kg	dw	44	2.80	61.6	20.3	19.2	10.1	1.52	1.38	5.36	0				
Cobalt	mg/kg	dw	44	0.15	8.20	3.58	3.25	1.68	0.25	0.35	0.46	0				
Copper	mg/kg	dw	44	1.80	61.6	28.5	23.1	16.4	2.47	0.37	-0.92	0				
Cyanide	mg/kg	dw	9	0.90	1.40	1.11	1.10	0.18	0.06	0.50	-1.39	35	0.55	1.2	0.73	0.67
Iron	mg/kg	dw	44	1,330	29,600	10,763	9,345	5,692	858	1.00	1.64	0				
Lead	mg/kg	dw	43	2.50	157	28.4	27.2	25.2	3.85	3.26	15.6	1	0.33	0.33	0.33	0.33
Magnesium	mg/kg	dw	44	3,010	19,000	9,630	8,735	4,167	628	0.62	-0.27	0				
Manganese	mg/kg	dw	44	106	440	272	270	64.5	9.72	0.10	1.31	0				
Nickel	mg/kg	dw	44	1.80	64.6	20.6	16.2	11.9	1.80	1.34	3.32	0				
Potassium	mg/kg	dw	44	220	5,750	1,802	1,435	1,252	189	0.76	0.40	0				
Selenium	mg/kg	dw	40	0.49	2.10	1.00	0.92	0.36	0.06	1.15	1.53	4	0.42	1.1	0.93	1.10
Silver	mg/kg	dw	5	0.12	0.88	0.29	0.15	0.33	0.15	2.21	4.91	39	0.08	0.19	0.11	0.11
Sodium	mg/kg	dw	44	214	13,000	2,091	1,210	2,707	408	2.49	6.84	0				
Thallium	mg/kg	dw	1	0.75	0.75	0.75	0.75					43	0.54	1.2	0.72	0.73
Total mercury	mg/kg	dw	40	0.05	98.8	24.9	2.65	33.1	5.24	1.00	-0.48	4	0.03	0.04	0.03	0.03
Vanadium	mg/kg	dw	44	1.70	40.7	15.1	13.6	7.53	1.14	0.90	1.93	0				
Zinc	mg/kg	dw	44	12.1	186	66.1	50.9	39.9	6.02	0.92	0.32	0				
Semivolatile Organic Compounds																
2-Methylnaphthalene	µg/kg	dw	0									43	36	550	80.6	50.0
Acenaphthene	µg/kg	dw	4	47.0	1,200	504	384	551	275	0.69	-2.16	39	36	550	63.2	49.0
Acenaphthylene	µg/kg	dw	1	110	110	110	110					42	36	550	81.6	50.0
Anthracene	µg/kg	dw	8	51.0	2,100	579	118	880	311	1.44	0.08	35	36	550	65.7	50.0
Benzo(a)anthracene	µg/kg	dw	21	47.0	22,000	1,671	140	5,017	1,095	3.79	15.0	22	36	550	71.6	49.5
Benzo(a)pyrene	µg/kg	dw	24	44.0	23,000	1,521	135	4,886	997	4.14	17.9	19	36	550	74.6	49.0
Benzo(b)fluoranthene	µg/kg	dw	23	53.0	20,000	1,341	130	4,277	892	4.19	18.3	20	36	550	72.5	44.5
Benzo(g,h,i)perylene	µg/kg	dw	16	51.0	11,000	1,124	110	2,830	707	3.29	11.2	27	36	550	67.9	50.0
Benzo(k)fluoranthene	µg/kg	dw	21	56.0	20,000	1,460	140	4,455	972	4.02	16.8	22	36	550	71.0	47.5
Chrysene	µg/kg	dw	27	41.0	25,000	1,508	97	5,075	977	4.30	19.3	16	36	550	80.4	49.5

Table G1-61. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Dibenz(a,h)anthracene	µg/kg	dw	6	46.0	5,200	1,234	305	2,020	825	2.09	4.40	37	36	550	64.6	50.0
Fluoranthene	µg/kg	dw	35	38.0	32,000	1,674	160	6,004	1,015	4.52	21.0	8	38	550	107	44.5
Fluorene	µg/kg	dw	5	41.0	800	332	64	388	173	0.64	-3.15	38	36	550	63.9	49.5
Indeno(1,2,3-cd)pyrene	µg/kg	dw	16	47.0	11,000	1,075	100	2,792	698	3.44	12.3	27	36	550	67.9	50.0
Naphthalene	µg/kg	dw	3	85.0	18,000	6,242	640	10,187	5,881	1.73		40	36	410	59.1	48.5
Phenanthrene	µg/kg	dw	23	50.0	14,000	1,213	130	3,399	709	3.34	10.6	20	36	550	73.0	47.5
Pyrene	µg/kg	dw	32	53.0	25,000	1,564	140	5,217	922	3.99	15.6	11	36	550	89.1	43.0
1,2,4-Trichlorobenzene	µg/kg	dw	0									43	36	550	80.6	50.0
1,2-Dichlorobenzene	µg/kg	dw	4	51.0	97.0	73.3	72.5	19.8	9.89	0.18	-1.07	39	36	550	83.4	49.0
1,3-Dichlorobenzene	µg/kg	dw	5	79.0	130	110	110	19.1	8.55	-1.19	2.10	38	36	550	83.2	48.0
1,4-Dichlorobenzene	µg/kg	dw	0									43	36	550	80.6	50.0
2,2'-Oxybis(1-chloropropane)	µg/kg	dw	0									43	36	550	80.6	50.0
2,4,5-Trichlorophenol	µg/kg	dw	0									43	190	2,800	414	260
2,4,6-Trichlorophenol	µg/kg	dw	0									43	190	2,800	414	260
2,4-Dichlorophenol	µg/kg	dw	0									43	190	2,800	414	260
2,4-Dimethylphenol	µg/kg	dw	0									43	190	2,800	414	260
2,4-Dinitrophenol	µg/kg	dw	0									43	930	14,000	2,079	1,300
2,4-Dinitrotoluene	µg/kg	dw	0									43	190	2,800	414	260
2,6-Dinitrotoluene	µg/kg	dw	0									43	190	2,800	414	260
2-Chloronaphthalene	µg/kg	dw	0									43	36	550	80.6	50.0
2-Chlorophenol	µg/kg	dw	0									43	36	550	80.6	50.0
2-Methyl-4,6-dinitrophenol	µg/kg	dw	0									43	930	14,000	2,079	1,300
2-Methylphenol	µg/kg	dw	0									43	36	550	80.6	50.0
2-Nitroaniline	µg/kg	dw	0									43	73	1,100	163	100
2-Nitrophenol	µg/kg	dw	0									43	190	2,800	414	260
3,3-Dichlorobenzidine	µg/kg	dw	0									43	36	550	80.6	50.0
3-Nitroaniline	µg/kg	dw	0									43	930	14,000	2,079	1,300
4-Bromophenyl-phenyl ether	µg/kg	dw	0									43	36	550	80.6	50
4-Chloro-3-methylphenol	µg/kg	dw	0									43	190	2,800	414	260
4-Chloroaniline	µg/kg	dw	1	98	98	98	98					42	36	550	81.3	49.5
4-Chlorophenyl-phenyl ether	µg/kg	dw	0									43	36	550	80.6	50.0
4-Methylphenol	µg/kg	dw	0									43	36	550	80.6	50.0
4-Nitroaniline	µg/kg	dw	0									43	930	14,000	2,079	1,300
4-Nitrophenol	µg/kg	dw	0									43	930	14,000	2,079	1,300
Benzyl alcohol	µg/kg	dw	0									43	190	2,800	414	260
Bis(2-chloroethoxy)methane	µg/kg	dw	0									43	36	550	80.6	50
Bis(2-chloroethyl)ether	µg/kg	dw	0									43	36	550	80.6	50
Bis(2-ethylhexyl)phthalate	µg/kg	dw	37	41.0	830	150	100	153	25.1	3.20	11.6	6	48	550	269	233
Butylbenzylphthalate	µg/kg	dw	0									43	36	550	80.6	50
Carbazole	µg/kg	dw	5	48.0	2,700	944	220	1,202	538	0.97	-1.18	38	36	550	63.9	49.5
Dibenzofuran	µg/kg	dw	0									43	36	550	80.6	50
Diethylphthalate	µg/kg	dw	0									43	36	550	80.6	50
Dimethylphthalate	µg/kg	dw	0									43	36	550	80.6	50
Di-n-butylphthalate	µg/kg	dw	6	54.0	110	76.2	66	23.0	9.40	0.87	-1.38	37	36	550	84.4	49
Di-n-octylphthalate	µg/kg	dw	0									43	36	550	80.6	50

Table G1-61. (cont.)

Analyte	Concen-tration Units	Measure-ment Basis	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Hexachlorobenzene (GC/ECD)	µg/kg	dw	1	621	621	621	621					0				
Hexachlorobenzene	µg/kg	dw	10	55.0	620	324	360	198	62.5	-0.06	-1.36	33	36	550	89.9	49
Hexachlorobutadiene	µg/kg	dw	0									43	36	550	80.6	50
Hexachlorocyclopentadiene	µg/kg	dw	0									43	190	2,800	414	260
Hexachloroethane	µg/kg	dw	0									43	36	550	80.6	50
Isophorone	µg/kg	dw	0									43	36	550	80.6	50
Nitrobenzene	µg/kg	dw	0									43	36	550	80.6	50
N-Nitrosodimethylamine	µg/kg	dw	0									43	190	2,800	414	260
N-nitroso-di-n-propylamine	µg/kg	dw	0									43	36	550	80.6	50
N-Nitrosodiphenylamine	µg/kg	dw	0									43	36	550	80.6	50
Pentachlorophenol	µg/kg	dw	0									43	930	14,000	2,079	1,300
Phenol	µg/kg	dw	0									43	36	550	80.6	50.0
Pesticides/Polychlorinated Biphenyls																
4,4'-DDT	µg/kg	dw	1	1.49	1.49	1.49	1.49					0				
Aldrin	µg/kg	dw	1	1.18	1.18	1.18	1.18					0				
alpha-Chlordane	µg/kg	dw	0									1	1.08	1.08	1.08	1.08
beta-BHC	µg/kg	dw	1	3.19	3.19	3.19	3.19					0				
Dieldrin	µg/kg	dw	1	3.80	3.80	3.80	3.80					0				
Endosulfan I	µg/kg	dw	0									1	1.08	1.08	1.08	1.08
Endrin aldehyde	µg/kg	dw	1	2.81	2.81	2.81	2.81					0				
gamma-Chlordane	µg/kg	dw	1	2.96	2.96	2.96	2.96					0				
Heptachlor epoxide	µg/kg	dw	1	3.84	3.84	3.84	3.84					0				
Heptachlor	µg/kg	dw	0									1	1.08	1.08	1.08	1.08
Toxaphene	µg/kg	dw	0									1	108	108	108	108
Aroclor 1016	µg/kg	dw	0									43	50.5	106	54.6	53.6
Aroclor 1221	µg/kg	dw	0									43	50.5	106	54.6	53.6
Aroclor 1232	µg/kg	dw	0									43	50.5	106	54.6	53.6
Aroclor 1242	µg/kg	dw	19	17.0	193	66.8	53.3	45.3	10.4	1.67	2.73	24	50.5	54.6	53.1	53.3
Aroclor 1248	µg/kg	dw	0									43	50.5	106	54.6	53.6
Aroclor 1254	µg/kg	dw	22	10.6	289	112	81.5	85.9	18.3	0.80	-0.67	21	50.5	54.6	53.2	53.3
Aroclor 1260	µg/kg	dw	3	14.0	126	56.1	28.2	61.0	35.2	1.63		40	50.5	106	54.6	53.6
Aroclor 1268	µg/kg	dw	19	53.7	487	219	169	147	33.7	0.80	-0.82	24	50.5	54.6	53.2	53.3
PCDD/PCDFs																
2,3,7,8-TCDD	ng/kg	dw	14	0.11	0.48	0.28	0.26	0.14	0.04	0.26	-1.22	8	0.1	0.11	0.10	0.10
Total TCDDs	ng/kg	dw	20	0.15	9.33	4.23	4.65	3.21	0.72	0.16	-1.60	2	0.1	0.1	0.10	0.10
2,3,7,8-TCDF	ng/kg	dw	21	0.13	77.6	26.4	14.7	28.7	6.26	0.63	-1.22	1	0.1	0.1	0.10	0.10
Total TCDFs	ng/kg	dw	21	0.32	312	101	47.6	106	23.1	0.68	-0.93	1	0.1	0.1	0.10	0.10
1,2,3,7,8-PeCDD	ng/kg	dw	16	0.16	1.57	0.49	0.42	0.37	0.09	1.77	3.91	6	0.1	0.1	0.10	0.10
Total PeCDDs	ng/kg	dw	19	0.12	14.9	4.07	3.58	4.12	0.94	1.27	1.47	3	0.1	0.1	0.10	0.10
1,2,3,7,8-PeCDF	ng/kg	dw	20	0.12	96.0	29.3	17.7	32.0	7.15	0.75	-0.80	2	0.1	0.1	0.10	0.10
2,3,4,7,8-PeCDF	ng/kg	dw	20	0.11	42.9	11.2	6.21	12.7	2.84	1.07	0.37	2	0.1	0.1	0.10	0.10
Total PeCDFs	ng/kg	dw	21	0.14	345	104	62.5	117	25.5	0.88	-0.46	1	0.1	0.1	0.10	0.10
1,2,3,4,7,8-HxCDD	ng/kg	dw	15	0.12	1.27	0.52	0.50	0.33	0.09	0.68	0.16	7	0.1	0.52	0.16	0.10
1,2,3,6,7,8-HxCDD	ng/kg	dw	16	0.15	4.87	1.95	1.99	1.48	0.37	0.34	-0.99	6	0.1	0.52	0.17	0.10
1,2,3,7,8,9-HxCDD	ng/kg	dw	17	0.17	8.10	1.63	1.23	1.89	0.46	2.72	9.00	5	0.1	0.1	0.10	0.10

Table G1-61. (cont.)

			DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	Measure-ment Basis	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Total HxCDDs	ng/kg	dw	20	0.19	44.1	15.4	8.48	15.5	3.47	0.70	-0.99	2	0.1	0.1	0.10	0.10
1,2,3,4,7,8-HxCDF	ng/kg	dw	21	0.11	274	66.6	36.4	78.4	17.1	1.15	0.75	1	0.1	0.1	0.10	0.10
1,2,3,6,7,8-HxCDF	ng/kg	dw	18	0.15	60.5	22.3	18.4	21.1	4.98	0.50	-1.17	4	0.1	0.1	0.10	0.10
1,2,3,7,8,9-HxCDF	ng/kg	dw	13	0.13	4.18	2.19	2.36	1.35	0.37	-0.04	-1.34	9	0.09	0.12	0.10	0.10
2,3,4,6,7,8-HxCDF	ng/kg	dw	17	0.12	7.26	3.31	3.03	2.55	0.62	0.24	-1.35	5	0.1	0.1	0.10	0.10
Total HxCDFs	ng/kg	dw	20	0.32	547	168	129	177	39.5	0.74	-0.63	2	0.1	0.1	0.10	0.10
1,2,3,4,6,7,8-HpCDD	ng/kg	dw	21	0.25	106	31.8	15.9	33.5	7.31	0.84	-0.60	1	0.1	0.1	0.10	0.10
Total HpCDDs	ng/kg	dw	20	0.26	246	76.0	39.3	78.3	17.5	0.81	-0.64	2	0.1	0.1	0.10	0.10
1,2,3,4,6,7,8-HpCDF	ng/kg	dw	21	0.20	249	56.3	41.6	68.4	14.9	1.57	2.35	1	0.1	0.1	0.10	0.10
1,2,3,4,7,8,9-HpCDF	ng/kg	dw	18	0.17	158	40.5	31.9	43.3	10.2	1.24	1.69	4	0.1	0.1	0.10	0.10
Total HpCDFs	ng/kg	dw	21	0.13	847	167	134	211	45.9	1.87	4.42	1	0.1	0.1	0.10	0.10
OCDD	ng/kg	dw	22	0.48	1,110	284	144	329	70.1	1.11	0.28	0				
OCDF	ng/kg	dw	21	0.42	3,300	400	218	725	158	3.49	13.9	1	0.1	0.1	0.1	0.1

Table G1-62. Summary Statistics for Onondaga Lake Surface Water Samples Collected by Honeywell/PTI in 1992 (0-9 m)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	68	0.99	3.8	1.953	1.83	0.64	0.08	1.42	2.22	0				
Carbon dioxide	mg/L-ww	37	15	78.4	33.3	30	14.5	2.38	1.23	1.71	0				
Chloride	mg/L-ww	68	405	528	475	479	23.8	2.89	-0.70	0.72	0				
Conductivity	umho/c	165	1,630	7,846	2,077	2,070	467	36.4	11.6	144	0				
Dissolved oxygen, wt/vol	mg/L-ww	148	0.5	14.5	7.85	7.90	2.99	0.25	-0.02	0.86	0				
pH	pH	148	6.46	8.6	7.87	7.88	0.34	0.03	-1.26	4.42	0				
Secchi depth	m	13	1.2	5	2.95	2.50	1.41	0.39	0.64	-1.27	0				
Sulfate	mg/L-ww	68	111	204	146	144	20.7	2.51	0.65	0.00	0				
Sulfate (dissolved)	mg/L-dis	14	127	251	155	144	33.4	8.92	2.26	5.20	0				
Sulfides	mg/L-ww	4	1.12	10.4	3.54	1.33	4.57	2.29	2.00	3.98	64	1	1	1	1
Sulfides (dissolved)	mg/L-dis	2	1.22	1.22	1.22	1.22	0	0			12	1	1	1	1
Temperature	degC	166	4.14	24.6	16.4	17.9	5.19	0.40	-0.97	-0.04	0				
Total alkalinity	mg/L-ww	68	141	208	174	171	14.5	1.76	0.41	0.16	0				
Total alkalinity (dissolved)	mg/L-dis	14	152	208	177	176	16.2	4.33	0.57	-0.22	0				
Total inorganic carbon	mg/L-ww	68	24.6	54.4	43.5	43.8	5.08	0.62	-0.61	2.06	0				
Total inorganic carbon (dissolved)	mg/L-dis	14	31.7	50.7	41.4	42.1	5.42	1.45	-0.24	-0.52	0				
Total organic carbon	mg/L-ww	66	4.51	18	6.84	6.46	2.05	0.25	2.94	13.2	2	1	1	1	1
Total organic carbon (dissolved)	mg/L-dis	14	4.69	8.64	6.65	6.70	1.31	0.35	0.02	-1.22	0				
Total solids	mg/L-ww	5	1.19	2.30	1.56	1.52	0.44	0.20	1.57	2.74	0				
Total suspended solids	mg/L-sus	61	0.98	11.4	3.77	2.98	2.55	0.33	1.38	1.49	0				
Total Metals and Cyanide															
Aluminum	µg/L-ww	2	92.5	106	99.3	99.3	9.55	6.75			0				
Antimony	µg/L-ww	2	23.9	26.2	25.1	25.1	1.63	1.15			0				
Arsenic	µg/L-ww	0									2	1	1	1	1
Barium	µg/L-ww	2	66.8	67.8	67.3	67.3	0.71	0.5			0				
Beryllium	µg/L-ww	0									2	1	1	1	1
Cadmium	µg/L-ww	1	2.7	2.7	2.7	2.7					67	2	2	2	2
Cadmium (dissolved)	µg/L-dis	0									2	2	2	2	2
Calcium	µg/L-ww	68	130,000	177,000	157,868	158,500	9,021	1,094	-0.67	1.32	0				
Calcium (dissolved)	µg/L-dis	14	130,000	172,000	155,143	154,500	12,133	3,243	-0.52	0.31	0				
Chromium	µg/L-ww	10	2	4.8	2.73	2.35	0.97	0.31	1.66	1.59	58	2	4	2.83	2
Chromium (dissolved)	µg/L-dis	0									2	4	4	4	4
Cobalt	µg/L-ww	0									2	4	4	4	4
Copper	µg/L-ww	18	1.2	51.2	5.46	2.6	11.5	2.72	4.12	17.2	50	1	7.4	2.24	2

Table G1-62. (cont.)

Analyte	Concen-tration Units	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Copper (dissolved)	µg/L-dis	0									2	3	3	3	3
Cyanide	µg/L-ww	1	171	171	171	171					1	10	10	10	10
Dimethylmercury (total)	ng/L-ww	0									66	5.5E-04	1.2E-02	4.4E-03	3.1E-03
Elemental mercury (total)	ng/L-ww	66	0.02	0.45	0.09	0.07	0.07	0.01	2.48	8.36	0				
Ionic mercury (dissolved)	ng/L-dis	57	0.10	2.27	0.82	0.72	0.43	0.06	1.03	1.38	9	1.13	1.13	1.13	1.13
Ionic mercury (total)	ng/L-ww	65	0.12	3.68	1.07	0.88	0.85	0.11	1.52	2.22	1	1.13	1.13	1.13	1.13
Iron	µg/L-ww	67	21.2	258	59.8	50.8	38.4	4.69	2.89	11.6	1	16	16	16	16
Iron (dissolved)	µg/L-dis	2	35.5	107	71.3	71.3	50.6	35.8			0				
Lead	µg/L-ww	18	1.1	7.8	2.52	1.60	2.11	0.50	1.93	2.89	50	1	1	1	1
Magnesium	µg/L-ww	68	20,600	26,700	23,631	23,700	1,206	146	0.07	0.27	0				
Magnesium (dissolved)	µg/L-ww	14	20,900	26,100	23,486	23,200	1,486	397	0.36	-0.07	0				
Manganese	µg/L-ww	66	3	624	39.9	18.7	82.4	10.1	5.82	39.7	2	10.9	12.8	11.9	11.9
Manganese (dissolved)	µg/L-dis	2	4.1	29.8	17.0	17.0	18.2	12.9			0				
Mercury (dissolved)	ng/L-dis	66	0.65	5.40	2.58	2.42	1.04	0.13	0.64	-0.04	0				
Mercury (total)	ng/L-ww	66	2.67	14.8	5.73	5.43	2.41	0.30	1.65	3.84	0				
Methylmercury (dissolved)	ng/L-dis	66	0.04	0.86	0.23	0.15	0.21	0.03	1.69	2.20	0				
Methylmercury (total)	ng/L-ww	66	0.13	1.62	0.56	0.42	0.40	0.05	1.34	0.49	0				
Nickel	µg/L-ww	8	5	10.1	7.5	7.75	2.21	0.78	-0.04	-2.37	60	5	8	5.93	5
Nickel (dissolved)	µg/L-dis	1	9.9	9.9	9.9	9.9					1	7	7	7	7
Potassium	µg/L-ww	2	6,670	6,800	6,735	6,735	91.9	65			0				
Selenium	µg/L-ww	0									2	1	1	1	1
Silver	µg/L-ww	0									2	2	2	2	2
Sodium	µg/L-ww	68	180,000	251,000	217,059	216,000	17,054	2,068	-0.12	-0.27	0				
Sodium (dissolved)	µg/L-dis	2	231,000	236,000	233,500	233,500	3,536	2,500			0				
Thallium	µg/L-ww	0									2	5	5	5	5
Vanadium	µg/L-ww	0									2	4	4	4	4
Zinc	µg/L-ww	66	2.3	166	19.3	11.9	26.2	3.23	3.68	16.2	2	2	2	2	2
Zinc (dissolved)	µg/L-dis	2	15.6	22	18.8	18.8	4.53	3.2			0				
Volatile Organic Compounds															
1,1,1-Trichloroethane	µg/L-ww	0									2	10	10	10	10
1,1,2,2-Tetrachloroethane	µg/L-ww	0									2	10	10	10	10
1,1,2-Trichloroethane	µg/L-ww	0									2	10	10	10	10
1,1-Dichloroethane	µg/L-ww	0									2	10	10	10	10
1,1-Dichloroethene	µg/L-ww	0									2	10	10	10	10
1,2-Dichloroethane	µg/L-ww	0									2	10	10	10	10
1,2-Dichloroethene isomers (total)	µg/L-ww	0									2	10	10	10	10
1,2-Dichloropropane	µg/L-ww	0									2	10	10	10	10
2-Butanone	µg/L-ww	0									2	10	10	10	10
2-Hexanone	µg/L-ww	0									2	10	10	10	10
4-Methyl-2-pentanone	µg/L-ww	0									2	10	10	10	10
Acetone	µg/L-ww	0									2	10	10	10	10

Table G1-62. (cont.)

Analyte	Concen-tration Units	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Benzene	µg/L-ww	0									56	1	10	1.64	1
Bromodichloromethane	µg/L-ww	0									2	10	10	10	10
Bromoform	µg/L-ww	0									2	10	10	10	10
Bromomethane	µg/L-ww	0									2	10	10	10	10
Carbon disulfide	µg/L-ww	0									2	10	10	10	10
Carbon tetrachloride	µg/L-ww	0									2	10	10	10	10
Chlorobenzene	µg/L-ww	0									56	1	10	1.64	1
Chloroethane	µg/L-ww	0									2	10	10	10	10
Chloroform	µg/L-ww	0									2	10	10	10	10
Chloromethane	µg/L-ww	0									2	10	10	10	10
cis-1,3-Dichloropropene	µg/L-ww	0									2	10	10	10	10
Dibromochloromethane	µg/L-ww	0									2	10	10	10	10
Ethylbenzene	µg/L-ww	0									56	1	10	1.64	1
Methylene chloride	µg/L-ww	0									2	10	10	10	10
Styrene	µg/L-ww	0									2	10	10	10	10
Tetrachloroethene	µg/L-ww	0									2	10	10	10.0	10
Toluene	µg/L-ww	0									56	1	10	1.64	1
trans-1,3-Dichloropropene	µg/L-ww	0									2	10	10	10	10
Trichloroethene	µg/L-ww	0									2	10	10	10	10
Vinyl chloride	µg/L-ww	0									2	10	10	10	10
Xylene isomers (total)	µg/L-ww	0									56	1	10	1.64	1
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									52	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	0									56	1	10	1.64	1
1,2-Dichlorobenzene	µg/L-ww	0									56	1	10	1.64	1
1,3,5-Trichlorobenzene	µg/L-ww	0									52	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	0									56	1	10	1.64	1
1,4-Dichlorobenzene	µg/L-ww	0									56	1	10	1.64	1
2,2'-Oxybis(1-chloropropane)	µg/L-ww	0									2	10	10	10	10
2,4,5-Trichlorophenol	µg/L-ww	0									2	25	25	25	25
2,4,6-Trichlorophenol	µg/L-ww	0									2	10	10	10	10
2,4-Dichlorophenol	µg/L-ww	0									2	10	10	10	10
2,4-Dimethylphenol	µg/L-ww	0									2	10	10	10	10
2,4-Dinitrophenol	µg/L-ww	0									2	25	25	25	25
2,4-Dinitrotoluene	µg/L-ww	0									2	10	10	10	10
2,6-Dinitrotoluene	µg/L-ww	0									2	10	10	10	10
2-Chloronaphthalene	µg/L-ww	0									2	10	10	10	10
2-Chlorophenol	µg/L-ww	0									2	10	10	10	10
2-Methyl-4,6-dinitrophenol	µg/L-ww	0									2	25	25	25	25
2-Methylphenol	µg/L-ww	0									2	10	10	10	10
2-Nitroaniline	µg/L-ww	0									2	25	25	25	25

Table G1-62. (cont.)

Analyte	Concen-tration Units	DETECTS N	DETECTS Minimum Detection	DETECTS Maximum Detection	DETECTS Mean	DETECTS Median	DETECTS Standard Deviation	DETECTS Standard Error	DETECTS Skewness	DETECTS Kurtosis	NON-DETECTS N	NON-DETECTS Minimum Detection Limit	NON-DETECTS Maximum Detection Limit	NON-DETECTS Mean	NON-DETECTS Median
2-Nitrophenol	µg/L-ww	0									2	10	10	10	10
3,3'-Dichlorobenzidine	µg/L-ww	0									2	10	10	10	10
3-Nitroaniline	µg/L-ww	0									2	25	25	25	25
4-Bromophenyl-phenyl ether	µg/L-ww	0									2	10	10	10	10
4-Chloro-3-methylphenol	µg/L-ww	0									2	10	10	10	10
4-Chloroaniline	µg/L-ww	0									2	10	10	10	10
4-Chlorophenyl-phenyl ether	µg/L-ww	0									2	10	10	10	10
4-Methylphenol	µg/L-ww	0									2	10	10	10	10
4-Nitroaniline	µg/L-ww	0									2	25	25	25	25
4-Nitrophenol	µg/L-ww	0									2	25	25	25	25
bis(2-chloroethoxy)methane	µg/L-ww	0									2	10	10	10	10
bis(2-chloroethyl)ether	µg/L-ww	0									2	10	10	10	10
bis(2-Ethylhexyl)phthalate	µg/L-ww	2	2	10	6	6	5.66	4			0				
Butylbenzyl phthalate	µg/L-ww	0									2	10	10	10	10
Carbazole	µg/L-ww	0									2	10	10	10	10
Dibenzofuran	µg/L-ww	0									2	10	10	10	10
Diethyl phthalate	µg/L-ww	0									2	10	10	10	10
Dimethyl phthalate	µg/L-ww	0									2	10	10	10	10
Di-n-butyl phthalate	µg/L-ww	0									2	10	10	10	10
Di-n-octyl phthalate	µg/L-ww	0									2	10	10	10	10
Hexachlorobenzene	µg/L-ww	0									2	10	10	10	10
Hexachlorobutadiene	µg/L-ww	0									2	10	10	10	10
Hexachlorocyclopentadiene	µg/L-ww	0									2	10	10	10	10
Hexachloroethane	µg/L-ww	0									2	10	10	10	10
Isophorone	µg/L-ww	0									2	10	10	10	10
Nitrobenzene	µg/L-ww	0									2	10	10	10	10
N-nitroso-di-n-propylamine	µg/L-ww	0									2	10	10	10	10
N-nitrosodiphenylamine	µg/L-ww	0									2	10	10	10	10
Pentachlorophenol	µg/L-ww	0									2	25	25	25	25
Phenol	µg/L-ww	0									2	10	10	10	10
2-Methylnaphthalene	µg/L-ww	0									2	10	10	10	10
Acenaphthene	µg/L-ww	0									2	10	10	10	10
Acenaphthylene	µg/L-ww	0									2	10	10	10	10
Anthracene	µg/L-ww	0									2	10	10	10	10
Benzo(a)anthracene	µg/L-ww	0									2	10	10	10	10
Benzo(a)pyrene	µg/L-ww	0									2	10	10	10	10
Benzo(b)fluoranthene	µg/L-ww	0									2	10	10	10	10
Benzo(g,h,i)perylene	µg/L-ww	0									2	10	10	10	10
Benzo(k)fluoranthene	µg/L-ww	0									2	10	10	10	10
Chrysene	µg/L-ww	0									2	10	10	10	10
Dibenz(a,h)anthracene	µg/L-ww	0									2	10	10	10	10

Table G1-62. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Fluoranthene	µg/L-ww	0									2	10	10	10	10
Fluorene	µg/L-ww	0									2	10	10	10	10
Indeno(1,2,3-cd)pyrene	µg/L-ww	0									2	10	10	10	10
Naphthalene	µg/L-ww	0									2	10	10	10	10
Phenanthrene	µg/L-ww	0									2	10	10	10	10
Pyrene	µg/L-ww	0									2	10	10	10	10
Pesticides & Polychlorinated Biphenyls															
4,4'-DDD	µg/L-ww	0									2	0.1	0.1	0.1	0.1
4,4'-DDE	µg/L-ww	0									2	0.1	0.1	0.1	0.1
4,4'-DDT	µg/L-ww	0									2	0.1	0.1	0.1	0.1
Aldrin	µg/L-ww	0									2	0.05	0.05	0.05	0.05
alpha-BHC	µg/L-ww	0									2	0.05	0.05	0.05	0.05
alpha-Chlordane	µg/L-ww	0									2	0.05	0.05	0.05	0.05
beta-BHC	µg/L-ww	0									2	0.05	0.05	0.05	0.05
Chlordane	µg/L-ww	0									2	0.05	0.05	0.05	0.05
delta-BHC	µg/L-ww	0									2	0.05	0.05	0.05	0.05
Dieldrin	µg/L-ww	0									2	0.1	0.1	0.1	0.1
Endosulfan I	µg/L-ww	0									2	0.05	0.05	0.05	0.05
Endosulfan II	µg/L-ww	0									2	0.1	0.1	0.1	0.1
Endosulfan sulfate	µg/L-ww	0									2	0.1	0.1	0.1	0.1
Endrin	µg/L-ww	0									2	0.1	0.1	0.1	0.1
Endrin aldehyde	µg/L-ww	0									2	0.1	0.1	0.1	0.1
Endrin ketone	µg/L-ww	0									2	0.1	0.1	0.1	0.1
gamma-BHC (Lindane)	µg/L-ww	0									2	0.05	0.05	0.05	0.05
gamma-Chlordane	µg/L-ww	0									2	0.05	0.05	0.05	0.05
Heptachlor	µg/L-ww	0									2	0.05	0.05	0.05	0.05
Heptachlor epoxide	µg/L-ww	0									2	0.05	0.05	0.05	0.05
Methoxychlor	µg/L-ww	0									2	0.5	0.5	0.5	0.5
Toxaphene	µg/L-ww	0									2	5	5	5	5
Aroclor 1016	µg/L-ww	0									2	1	1	1	1
Aroclor 1221	µg/L-ww	0									2	2	2	2	2
Aroclor 1232	µg/L-ww	0									2	1	1	1	1
Aroclor 1242	µg/L-ww	0									2	1	1	1	1
Aroclor 1248	µg/L-ww	0									2	1	1	1	1
Aroclor 1254	µg/L-ww	0									2	1	1	1	1
Aroclor 1260	µg/L-ww	0									2	1	1	1	1

Table G1-63. Summary Statistics for Onondaga Lake Surface Water Samples Collected by Honeywell/PTI in 1992 (below 9 m)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	40	1.54	5.52	2.85	2.77	0.88	0.14	1.14	1.82	0				
Carbon dioxide	mg/L-ww	22	25	83.6	46.0	40.4	16.1	3.42	0.86	0.45	0				
Chloride	mg/L-ww	40	438	554	496	495	27.6	4.36	0.25	-0.43	0				
Conductivity	umho/c	155	1,950	2,680	2,147	2,140	89.7	7.20	1.69	9.46	0				
Dissolved oxygen, wt/vol	mg/L-ww	137	0.02	13.8	2.34	0.09	4.08	0.35	1.59	1.10	0				
pH	pH	137	6.24	8.61	7.44	7.46	0.40	0.03	-0.35	3.42	0				
Sulfate	mg/L-ww	40	80.7	185	141	140	23.5	3.72	-0.29	0.31	0				
Sulfate (dissolved)	mg/L-dis	9	123	170	142	145	15.6	5.20	0.45	-0.53	0				
Sulfides	mg/L-ww	9	1.12	11.2	4.64	4.70	3.22	1.07	1.00	0.90	31	1	1	1	1
Sulfides (dissolved)	mg/L-dis	6	1.02	7.71	4.48	4.87	2.49	1.02	-0.24	-1.07	3	1	1	1	1
Temperature	degC	155	3.23	18.2	10.1	9.65	3.03	0.24	0.42	0.40	0				
Total alkalinity	mg/L-ww	40	173	366	203	199	28.7	4.54	4.85	27.6	0				
Total alkalinity (dissolved)	mg/L-dis	9	188	234	212	212	12.8	4.26	-0.34	1.29	0				
Total inorganic carbon	mg/L-ww	40	37.3	65	51.5	51.8	5.63	0.89	0.13	0.14	0				
Total inorganic carbon (dissolved)	mg/L-dis	9	44.6	67	55.8	56.4	8.02	2.67	-0.09	-1.30	0				
Total organic carbon	mg/L-ww	40	4.04	37.5	7.10	5.85	5.23	0.83	5.30	31.0	0				
Total organic carbon (dissolved)	mg/L-dis	9	4.92	11.6	6.75	5.88	2.15	0.72	1.81	2.87	0				
Total solids	mg/L-ww	2	1.81	2.08	1.95	1.95	0.19	0.13			0				
Total suspended solids	mg/L-sus	38	1.05	16.7	3.90	2.92	2.98	0.48	2.58	8.51	0				
Total Metals and Cyanide															
Aluminum		2	112	119	116	116	4.95	3.5			0				
Antimony	µg/L-ww	0									2	17	17	17	17
Arsenic	µg/L-ww	1	1.1	1.1	1.1	1.1					1	1	1	1	1
Barium	µg/L-ww	2	76	77.2	76.6	76.6	0.85	0.6			0				
Beryllium	µg/L-ww	0									2	1	1	1	1
Cadmium	µg/L-ww	2	2.7	2.9	2.8	2.8	0.14	0.1			38	2	2	2	2
Cadmium (dissolved)	µg/L-dis	0									1	2	2	2	2
Calcium	µg/L-ww	40	99,400	177,000	158,885	160,000	11,919	1,885	-3.16	15.8	0				
Calcium (dissolved)	µg/L-dis	9	150,000	177,000	160,556	159,000	8,353	2,784	0.92	0.52	0				
Chromium	µg/L-ww	4	2.1	5.3	3.15	2.60	1.45	0.73	1.82	3.47	36	2	4	2.72	2
Chromium (dissolved)	µg/L-dis	0									1	4	4	4	4
Cobalt	µg/L-ww	0									2	4	4	4	4
Copper	µg/L-ww	8	1.2	3	2.14	2.20	0.56	0.20	-0.44	0.41	32	1	3.1	2.11	2
Copper (dissolved)	µg/L-dis	0									1	3	3	3	3

Table G1-63. (cont.)

Analyte	Concen-tration Units	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Cyanide	µg/L-ww	0									2	10	10	10	10
Dimethylmercury (total)	ng/L-ww	2	8.6E-04	1.3E-03	1.1E-03	1.1E-03	0	0			38	5.7E-04	1.2E-02	4.2E-03	3.1E-03
Elemental mercury (total)	ng/L-ww	28	0.01	0.15	0.05	0.04	0.03	0.01	1.30	2.26	12	1.0E-02	2.0E-02	1.7E-02	1.9E-02
Ionic mercury (dissolved)	ng/L-dis	34	0.20	3.17	0.82	0.56	0.71	0.12	1.82	3.11	6	1.13	1.13	1.13	1.13
Ionic mercury (total)	ng/L-ww	39	0.14	9.42	1.41	0.71	2.07	0.33	3.19	10.6	1	2.83	2.83	2.83	2.83
Iron	µg/L-ww	40	27.3	362	90.3	50.8	82.1	13.0	1.69	2.23	0				
Iron (dissolved)	µg/L-dis	1	300	300	300	300					0				
Lead	µg/L-ww	11	1	3.8	1.79	1.40	0.93	0.28	1.37	0.67	29	1	1	1	1
Magnesium	µg/L-ww	40	14,500	27,300	23,233	23,400	1,804	285	-2.54	14.5	0				
Magnesium (dissolved)	µg/L-dis	9	21,800	26,400	23,811	23,200	1,373	458	0.59	0.30	0				
Manganese	µg/L-ww	40	12	880	395	473	241	38.1	0.05	-0.99	0				
Manganese (dissolved)	µg/L-dis	1	949	949	949	949					0				
Mercury (dissolved)	ng/L-dis	40	1.55	10.7	4.86	3.90	2.78	0.44	0.72	-0.81	0				
Mercury (total)	ng/L-ww	40	3.32	28.5	12.4	13.3	6.84	1.08	0.33	-1.14	0				
Methylmercury (dissolved)	ng/L-dis	40	0.04	9.17	2.59	2.72	2.17	0.34	1.09	1.68	0				
Methylmercury (total)	ng/L-ww	39	0.24	12.4	5.06	5.18	3.81	0.61	0.35	-1.01	1	0.13	0.13	0.13	0.13
Nickel	µg/L-ww	2	9.3	9.5	9.4	9.4	0.14	0.10			38	5	8	5.84	5
Nickel (dissolved)	µg/L-dis	0									1	7	7	7	7
Potassium	µg/L-ww	2	5,960	6,360	6,160	6,160	283	200			0				
Selenium	µg/L-ww	0									2	1	1	1	1
Silver	µg/L-ww	0									2	2	2	2	2
Sodium	µg/L-ww	40	131,000	276,000	222,075	220,500	21,901	3,463	-1.34	7.25	0				
Sodium (dissolved)	µg/L-dis	1	252,000	252,000	252,000	252,000					0				
Thallium	µg/L-ww	0									2	5	5	5	5
Vanadium	µg/L-ww	0									2	4	4	4	4
Zinc	µg/L-ww	35	3.9	46.1	16.3	12.4	11.6	1.96	1.23	0.64	4	2	2	2	2
Zinc (dissolved)	µg/L-dis	1	13.3	13.3	13.3	13.3					0				
Volatile Organic Compounds															
1,1,1-Trichloroethane		0									1	10	10	10	10
1,1,2,2-Tetrachloroethane	µg/L-ww	0									1	10	10	10	10
1,1,2-Trichloroethane	µg/L-ww	0									1	10	10	10	10
1,1-Dichloroethane	µg/L-ww	0									1	10	10	10	10
1,1-Dichloroethene	µg/L-ww	0									1	10	10	10	10
1,2-Dichloroethane	µg/L-ww	0									1	10	10	10	10
1,2-Dichloroethene isomers (total)	µg/L-ww	0									1	10	10	10	10
1,2-Dichloropropane	µg/L-ww	0									1	10	10	10	10
2-Butanone	µg/L-ww	0									1	10	10	10	10
2-Hexanone	µg/L-ww	0									1	10	10	10	10
4-Methyl-2-pentanone	µg/L-ww	0									1	10	10	10	10
Acetone	µg/L-ww	0									1	10	10	10	10
Benzene	µg/L-ww	0									36	1	10	1.5	1

Table G1-63. (cont.)

Analyte	Concen-tration Units	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Bromodichloromethane	µg/L-ww	0									1	10	10	10	10
Bromoform	µg/L-ww	0									1	10	10	10	10
Bromomethane	µg/L-ww	0									1	10	10	10	10
Carbon disulfide	µg/L-ww	0									1	10	10	10	10
Carbon tetrachloride	µg/L-ww	0									1	10	10	10	10
Chlorobenzene	µg/L-ww	0									36	1	10	1.5	1
Chloroethane	µg/L-ww	0									1	10	10	10	10
Chloroform	µg/L-ww	0									1	10	10	10	10
Chloromethane	µg/L-ww	0									1	10	10	10	10
cis-1,3-Dichloropropene	µg/L-ww	0									1	10	10	10	10
Dibromochloromethane	µg/L-ww	0									1	10	10	10	10
Ethylbenzene	µg/L-ww	0									36	1	10	1.5	1
Methylene chloride	µg/L-ww	0									1	10	10	10	10
Styrene	µg/L-ww	0									1	10	10	10	10
Tetrachloroethene	µg/L-ww	0									1	10	10	10	10
Toluene	µg/L-ww	0									36	1	10	1.5	1
trans-1,3-Dichloropropene	µg/L-ww	0									1	10	10	10	10
Trichloroethene	µg/L-ww	0									1	10	10	10	10
Vinyl chloride	µg/L-ww	0									1	10	10	10	10
Xylene isomers (total)	µg/L-ww	0									36	1	10	1.5	1
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene		0									34	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	0									36	1	10	1.75	1
1,2-Dichlorobenzene	µg/L-ww	0									36	1	10	1.75	1
1,3,5-Trichlorobenzene	µg/L-ww	0									34	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	0									36	1	10	1.75	1
1,4-Dichlorobenzene	µg/L-ww	0									36	1	10	1.75	1
2,2'-Oxybis(1-chloropropane)	µg/L-ww	0									2	10	10	10	10
2,4,5-Trichlorophenol	µg/L-ww	0									2	25	25	25	25
2,4,6-Trichlorophenol	µg/L-ww	0									2	10	10	10	10
2,4-Dichlorophenol	µg/L-ww	0									2	10	10	10	10
2,4-Dimethylphenol	µg/L-ww	0									2	10	10	10	10
2,4-Dinitrophenol	µg/L-ww	0									2	25	25	25	25
2,4-Dinitrotoluene	µg/L-ww	0									2	10	10	10	10
2,6-Dinitrotoluene	µg/L-ww	0									2	10	10	10	10
2-Chloronaphthalene	µg/L-ww	0									2	10	10	10	10
2-Chlorophenol	µg/L-ww	0									2	10	10	10	10
2-Methyl-4,6-dinitrophenol	µg/L-ww	0									2	25	25	25	25
2-Methylphenol	µg/L-ww	0									2	10	10	10	10
2-Nitroaniline	µg/L-ww	0									2	25	25	25	25
2-Nitrophenol	µg/L-ww	0									2	10	10	10	10

Table G1-63. (cont.)

Analyte	Concen-tration Units	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
3,3'-Dichlorobenzidine	µg/L-ww	0									2	10	10	10	10
3-Nitroaniline	µg/L-ww	0									2	25	25	25	25
4-Bromophenyl-phenyl ether	µg/L-ww	0									2	10	10	10	10
4-Chloro-3-methylphenol	µg/L-ww	0									2	10	10	10	10
4-Chloroaniline	µg/L-ww	0									2	10	10	10	10
4-Chlorophenyl-phenyl ether	µg/L-ww	0									2	10	10	10	10
4-Methylphenol	µg/L-ww	0									2	10	10	10	10
4-Nitroaniline	µg/L-ww	0									2	25	25	25	25
4-Nitrophenol	µg/L-ww	0									2	25	25	25	25
bis(2-chloroethoxy)methane	µg/L-ww	0									2	10	10	10	10
bis(2-chloroethyl)ether	µg/L-ww	0									2	10	10	10	10
bis(2-Ethylhexyl)phthalate	µg/L-ww	2	2	2	2	2	0	0			0				
Butylbenzyl phthalate	µg/L-ww	0									2	10	10	10	10
Carbazole	µg/L-ww	0									2	10	10	10	10
Dibenzofuran	µg/L-ww	0									2	10	10	10	10
Diethyl phthalate	µg/L-ww	0									2	10	10	10	10
Dimethyl phthalate	µg/L-ww	0									2	10	10	10	10
Di-n-butyl phthalate	µg/L-ww	0									2	10	10	10	10
Di-n-octyl phthalate	µg/L-ww	0									2	10	10	10	10
Hexachlorobenzene	µg/L-ww	0									2	10	10	10	10
Hexachlorobutadiene	µg/L-ww	0									2	10	10	10	10
Hexachlorocyclopentadiene	µg/L-ww	0									2	10	10	10	10
Hexachloroethane	µg/L-ww	0									2	10	10	10	10
Isophorone	µg/L-ww	0									2	10	10	10	10
Nitrobenzene	µg/L-ww	0									2	10	10	10	10
N-nitroso-di-n-propylamine	µg/L-ww	0									2	10	10	10	10
N-nitrosodiphenylamine	µg/L-ww	0									2	10	10	10	10
Pentachlorophenol	µg/L-ww	0									2	25	25	25	25
Phenol	µg/L-ww	0									2	10	10	10	10
2-Methylnaphthalene	µg/L-ww	0									2	10	10	10	10
Acenaphthene	µg/L-ww	0									2	10	10	10	10
Acenaphthylene	µg/L-ww	0									2	10	10	10	10
Anthracene	µg/L-ww	0									2	10	10	10	10
Benzo(a)anthracene	µg/L-ww	0									2	10	10	10	10
Benzo(a)pyrene	µg/L-ww	0									2	10	10	10	10
Benzo(b)fluoranthene	µg/L-ww	0									2	10	10	10	10
Benzo(g,h,i)perylene	µg/L-ww	0									2	10	10	10	10
Benzo(k)fluoranthene	µg/L-ww	0									2	10	10	10	10
Chrysene	µg/L-ww	0									2	10	10	10	10
Dibenz(a,h)anthracene	µg/L-ww	0									2	10	10	10	10
Fluoranthene	µg/L-ww	0									2	10	10	10	10

Table G1-63. (cont.)

Analyte	Concen-tration Units	DETECTS N	DETECTS Minimum Detection	DETECTS Maximum Detection	DETECTS Mean	DETECTS Median	DETECTS Standard Deviation	DETECTS Standard Error	DETECTS Skewness	DETECTS Kurtosis	NON-DETECTS N	NON-DETECTS Minimum Detection Limit	NON-DETECTS Maximum Detection Limit	NON-DETECTS Mean	NON-DETECTS Median
Fluorene	µg/L-ww	0									2	10	10	10	10
Indeno(1,2,3-cd)pyrene	µg/L-ww	0									2	10	10	10	10
Naphthalene	µg/L-ww	0									2	10	10	10	10
Phenanthrene	µg/L-ww	0									2	10	10	10	10
Pyrene	µg/L-ww	0									2	10	10	10	10
Pesticides & Polychlorinated Biphenyls															
4,4'-DDD											2	0.1	0.1	0.1	0.1
4,4'-DDE	µg/L-ww	0									2	0.1	0.1	0.1	0.1
4,4'-DDT	µg/L-ww	0									2	0.1	0.1	0.1	0.1
Aldrin	µg/L-ww	0									2	0.05	0.05	0.05	0.05
alpha-BHC	µg/L-ww	0									2	0.05	0.05	0.05	0.05
alpha-Chlordane	µg/L-ww	0									2	0.05	0.05	0.05	0.05
beta-BHC	µg/L-ww	0									2	0.05	0.05	0.05	0.05
Chlordane	µg/L-ww	0									2	0.05	0.05	0.05	0.05
delta-BHC	µg/L-ww	0									2	0.05	0.05	0.05	0.05
Dieldrin	µg/L-ww	0									2	0.1	0.1	0.1	0.1
Endosulfan I	µg/L-ww	0									2	0.05	0.05	0.05	0.05
Endosulfan II	µg/L-ww	0									2	0.1	0.1	0.1	0.1
Endosulfan sulfate	µg/L-ww	0									2	0.1	0.1	0.1	0.1
Endrin	µg/L-ww	0									2	0.1	0.1	0.1	0.1
Endrin aldehyde	µg/L-ww	0									2	0.1	0.1	0.1	0.1
Endrin ketone	µg/L-ww	0									2	0.1	0.1	0.1	0.1
gamma-BHC (Lindane)	µg/L-ww	0									2	0.05	0.05	0.05	0.05
gamma-Chlordane	µg/L-ww	0									2	0.05	0.05	0.05	0.05
Heptachlor	µg/L-ww	0									2	0.05	0.05	0.05	0.05
Heptachlor epoxide	µg/L-ww	0									2	0.05	0.05	0.05	0.05
Methoxychlor	µg/L-ww	0									2	0.5	0.52	0.51	0.51
Toxaphene	µg/L-ww	0									2	5	5.2	5.1	5.1
Aroclor 1016	µg/L-ww	0									2	1	1	1	1
Aroclor 1221	µg/L-ww	0									2	2	2.1	2.05	2.05
Aroclor 1232	µg/L-ww	0									2	1	1	1	1
Aroclor 1242	µg/L-ww	0									2	1	1	1	1
Aroclor 1248	µg/L-ww	0									2	1	1	1	1
Aroclor 1254	µg/L-ww	0									2	1	1	1	1
Aroclor 1260	µg/L-ww	0									2	1	1	1	1

Table G1-64. Summary Statistics for Onondaga Lake Surface Water Samples Collected by Honeywell/Exponent in 1999 (0-9 m)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Chlorophyll-a	µg/L-ww	37	6.4	28.8	13.3	11.9	5.41	0.89	1.39	1.82	0				
Hydrogen sulfide	µg/L-ww	0									37	1,000	1,000	1,000	1,000
Solids-suspended volatile	mg/L-ww	37	0	3.4	1.68	1.60	0.69	0.11	0.33	0.99	0				
Sulfate	mg/L-ww	28	145	197	183	187	12.2	2.30	-2.16	4.99	0				
Sulfides	mg/L-ww	0									37	1	1	1	1
Total alkalinity	mg/L-ww	37	114	156	140	147	12.9	2.13	-1.19	-0.10	0				
Total suspended solids-2540D-GF	mg/L-sus	37	1.3	5.5	3.01	3	0.82	0.13	0.50	1.36	0				
Total suspended solids-2540D-MF	mg/L-sus	32	0.3	5	2.36	2.2	1.47	0.26	0.41	-0.75	5	0.1	0.1	0.1	0.1
Total suspended solids-E2-GF	mg/L-sus	12	2	9	4.57	3	2.62	0.76	0.77	-1.30	0				
Total suspended solids-E2-MF	mg/L-sus	12	3	9	5.03	3.65	2.61	0.75	0.80	-1.48	0				
Total Metals and Cyanide															
Chromium	µg/L-ww	12	2.6	3.9	3.44	3.5	0.36	0.10	-1.13	1.50	0				
Iron	µg/L-ww	37	26	596	100	64	99.6	16.4	3.68	17.2	0				
Iron (dissolved)	µg/L-dis	33	1	300	31.9	14	56.4	9.81	3.79	16.5	4	0.1	0.1	0.1	0.1
Lead	µg/L-ww	1	3.1	3.1	3.1	3.1					11	1.6	1.6	1.6	1.6
Manganese	µg/L-ww	47	14.3	230	73.1	73.0	45.7	6.67	0.67	1.21	0				
Manganese (dissolved)	µg/L-dis	37	2	367	27.7	12.0	59.6	9.80	5.39	31.1	0				
Mercury (dissolved)	ng/L-dis	47	0.77	11.4	2.21	1.84	1.74	0.25	4.09	19.0	0				
Mercury (total)	ng/L-ww	47	2.33	103	9.83	6.74	14.4	2.10	6.13	39.9	0				
Methylmercury (dissolved)	ng/L-dis	47	0.07	12.6	0.91	0.64	1.79	0.26	6.28	41.6	0				
Methylmercury (total)		47	0.55	12.1	1.88	1.49	1.74	0.25	4.58	26.5	0				
Nickel	µg/L-ww	12	3.5	4.7	4	3.95	0.37	0.11	0.69	-0.20	0				
Volatile Organic Compounds															
1,1,1-Trichloroethane	µg/L-ww	0									12	0.5	0.5	0.5	0.5
1,1,2,2-Tetrachloroethane	µg/L-ww	0									12	0.5	0.5	0.5	0.5
1,1,2-Trichloroethane	µg/L-ww	0									12	0.5	0.5	0.5	0.5
1,1-Dichloroethane	µg/L-ww	0									12	0.5	0.5	0.5	0.5
1,1-Dichloroethene	µg/L-ww	0									12	0.5	0.5	0.5	0.5
1,2-Dichloroethane	µg/L-ww	0									12	0.5	0.5	0.5	0.5
1,2-Dichloropropane	µg/L-ww	0									12	0.5	0.5	0.5	0.5
2-Butanone	µg/L-ww	0									12	10	10	10	10
2-Hexanone	µg/L-ww	0									12	5	5	5	5
4-Methyl-2-pentanone	µg/L-ww	0									12	5	5	5	5
Benzene	µg/L-ww	2	0.11	6.3	3.21	3.21	4.38	3.10			10	0.5	0.5	0.5	0.5

Table G1-64. (cont.)

Analyte	Concen-tration Units	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Bromodichloromethane	µg/L-ww	4	0.12	0.24	0.19	0.20	0.05	0.03	-0.57	-1.71	8	0.5	0.5	0.5	0.5
Bromoform	µg/L-ww	0									12	0.5	0.5	0.5	0.5
Bromomethane	µg/L-ww	0									12	1	1	1	1
Carbon disulfide	µg/L-ww	0									12	0.5	0.5	0.5	0.5
Carbon tetrachloride	µg/L-ww	0									12	0.5	0.5	0.5	0.5
Chlorobenzene	µg/L-ww	2	0.51	12	6.26	6.26	8.12	5.75			10	0.5	0.5	0.5	0.5
Chloroethane	µg/L-ww	0									12	1	1	1	1
Chloroform	µg/L-ww	12	0.13	0.85	0.36	0.21	0.27	0.08	1.13	-0.15	0				
Chloromethane	µg/L-ww	0									12	1	1	1	1
cis-1,2-Dichloroethene	µg/L-ww	0									12	0.5	0.5	0.5	0.5
cis-1,3-Dichloropropene	µg/L-ww	0									12	0.5	0.5	0.5	0.5
Dibromochloromethane	µg/L-ww	0									12	0.5	0.5	0.5	0.5
Ethylbenzene	µg/L-ww	0									12	0.5	0.5	0.5	0.5
Methylene chloride	µg/L-ww	0									12	0.13	0.44	0.22	0.18
Styrene	µg/L-ww	0									12	0.5	0.5	0.5	0.5
Tetrachloroethene	µg/L-ww	0									12	0.5	0.5	0.5	0.5
Toluene	µg/L-ww	1	0.16	0.16	0.16	0.16					11	0.5	0.5	0.5	0.5
trans-1,2-Dichloroethene	µg/L-ww	0									12	0.5	0.5	0.5	0.5
trans-1,3-Dichloropropene	µg/L-ww	0									12	0.5	0.5	0.5	0.5
Trichloroethene	µg/L-ww	0									12	0.5	0.5	0.5	0.5
Vinyl chloride	µg/L-ww	0									12	1	1	1	1
Xylene isomers (total)	µg/L-ww	1	0.33	0.33	0.33	0.33					11	0.5	0.5	0.5	0.5
Semivolatile Organic Compounds															
1,2-Dichlorobenzene	µg/L-ww	3	0.11	3.2	1.16	0.17	1.77	1.02	1.73		9	0.5	0.5	0.5	0.5
1,4-Dichlorobenzene	µg/L-ww	10	0.14	3.4	0.54	0.18	1.01	0.32	3.08	9.62	2	0.5	0.5	0.5	0.5

Table G1-65. Summary Statistics for Onondaga Lake Surface Water Samples Collected by Honeywell/Exponent in 1999 (below 9 m)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Chlorophyll-a	µg/L-ww	26	6.2	19.8	10.1	10.3	2.91	0.57	1.30	3.51	0				
Hydrogen sulfide	µg/L-ww	8	3,200	9,900	5,913	5,350	2,003	708	1.02	1.75	18	1,000	1,000	1,000	1,000
Solids-suspended volatile	mg/L-ww	26	0.7	3.4	1.79	1.7	0.62	0.12	0.48	0.59	0				
Sulfate	mg/L-ww	18	145	194	178	180	14.0	3.31	-0.92	0.22	0				
Sulfides	mg/L-ww	8	5.16	19.7	11.4	10.9	4.50	1.59	0.59	0.68	18	1	1	1	1
Total alkalinity	mg/L-ww	26	142	259	175	150	37.71	7.40	0.88	-0.92	0				
Total suspended solids-2540D-GF	mg/L-sus	26	1.9	3.7	2.83	2.8	0.47	0.09	0.10	-0.48	0				
Total suspended solids-2540D-MF	mg/L-sus	20	0.4	12	2.74	1.7	3.13	0.70	2.05	3.85	6	0.1	0.1	0.1	0.1
Total Metals and Cyanide															
Iron	µg/L-ww	25	23	371	136	92	101	20.3	1.09	0.21	0				
Iron (dissolved)	µg/L-dis	24	1	256	79.7	52	85.6	17.5	0.94	-0.53	2	0.1	0.1	0.1	0.1
Manganese	µg/L-ww	25	68	601	247	155	181	36.3	0.70	-1.15	0				
Manganese (dissolved)	µg/L-dis	25	5	604	205	77	226	45.2	0.57	-1.54	1	0.04	0.04	0.04	0.04
Mercury (dissolved)	ng/L-dis	26	1.18	24	8.05	2.29	8.62	1.69	0.80	-1.25	0				
Mercury (total)	ng/L-ww	26	5.59	26.8	13.2	10.6	7.08	1.39	0.71	-1.05	0				
Methylmercury (dissolved)	ng/L-dis	26	0.34	15.3	3.22	1.21	4.09	0.80	1.78	2.39	0				
Methylmercury (total)	ng/L-ww	26	0.62	14.3	4.19	2.57	4.04	0.79	1.53	1.33	0				

Table G1-66. Summary Statistics for Upper Ninemile Creek Water Samples Collected by Honeywell/PTI in 1992 (base flow - less than or equal to 88 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	3	0.051	0.27	0.129	0.065	0.123	0.071	1.71		0				
Chloride	mg/L-ww	3	46.4	61.1	53	51.5	7.46	4.31	0.868		0				
Conductivity	umho/c	3	795	1,120	976	1,013	166	95.6	-0.955		0				
Discharge instantaneous	cfs	3	49.0	71	60.4	61.1	11.0	6.36	-0.296		0				
Dissolved oxygen, wt/vol	mg/L-ww	2	9.03	14	11.5	11.5	3.51	2.49			0				
pH	pH	3	7.86	8.2	8.00	7.93	0.180	0.104	1.44		0				
Sulfate	mg/L-ww	3	264	334	309	328	38.8	22.4	-1.69		0				
Temperature	degC	3	11.3	15.8	14.1	15.1	2.44	1.41	-1.58		0				
Total alkalinity	mg/L-ww	3	208	224	217	218	8.08	4.67	-0.72		0				
Total inorganic carbon	mg/L-ww	3	48.2	57.9	52.2	50.5	5.07	2.93	1.34		0				
Total organic carbon	mg/L-ww	3	2.76	5.98	4.52	4.83	1.63	0.942	-0.816		0				
Total suspended solids	mg/L-sus	2	5	11	8	8	4.24	3			1	4	4	4	4
Total Metals and Cyanide															
Cadmium	µg/L-ww	0									3	2	2	2	2
Calcium	µg/L-ww	3	170,000	175,000	172,667	173,000	2,517	1,453	-0.586		0				
Chromium	µg/L-ww	0									3	2	4	3.33	4
Copper	µg/L-ww	1	3.3	3.3	3.3	3.3					2	1	1	1	1
Lead	µg/L-ww	2	1.1	1.1	1.1	1.1	0	0			1	1	1	1	1
Magnesium	µg/L-ww	2	28,052	28,309	28,181	28,181	182	129			0				
Total Mercury	ng/L-ww	3	2.41	5.89	3.83	3.19	1.83	1.05	1.39		0				
Methylmercury	ng/L-ww	3	0.027	0.145	0.092	0.104	0.060	0.035	-0.854		0				
Nickel	µg/L-ww	0									3	5	8	7	8
Sodium	µg/L-ww	3	24,900	30,400	27,433	27,000	2,775	1,602	0.685		0				
Zinc	µg/L-ww	3	3	61.4	23.2	5.2	33.1	19.1	1.72		0				
Volatile Organic Compounds															
Benzene	µg/L-ww	0									3	1	1	1	1
Chlorobenzene	µg/L-ww	0									3	1	1	1	1
Ethylbenzene	µg/L-ww	0									3	1	1	1	1
Toluene	µg/L-ww	0									3	1	1	1	1
Xylene (Total)	µg/L-ww	0									3	1	3	1.67	1

Table G1-66. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									3	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	0									3	1	1	1	1
1,3,5-Trichlorobenzene	µg/L-ww	0									3	1	1	1	1
1,2-Dichlorobenzene	µg/L-ww	0									3	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	0									3	1	1	1	1
1,4-Dichlorobenzene	µg/L-ww	0									3	1	1	1	1
Hexachlorobenzene	µg/L-ww	0									3	0.05	0.5	0.35	0.5

Table G1-67. Summary Statistics for Lower Ninemile Creek Water Samples Collected by Honeywell/PTI & Driscoll in 1992 (base flow - less than or equal to 110 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	3	0.581	0.745	0.655	0.638	0.083	0.048	0.865		0				
Chloride	mg/L-ww	3	1,121	1,411	1,250	1,219	148	85.2	0.913		0				
Conductivity	umho/c	3	3,510	4,470	4,033	4,120	486	280	-0.777		0				
Discharge instantaneous	cfs	3	64.2	244	139	108	93.8	54.1	1.32		0				
Dissolved oxygen, wt/vol	mg/L-ww	2	8.27	12	10.1	10.1	2.64	1.87			0				
pH	pH	3	7.71	7.98	7.88	7.94	0.146	0.084	-1.59		0				
Sulfate	mg/L-ww	3	334	364	349	349	15	8.66	0		0				
Temperature	degC	3	12.7	22	17.1	16.7	4.68	2.70	0.404		0				
Total alkalinity	mg/L-ww	3	192	236	213	210	22.1	12.8	0.535		0				
Total inorganic carbon	mg/L-ww	3	47.5	59.2	52	48.2	6.56	3.79	1.71		0				
Total organic carbon	mg/L-ww	3	2.91	12.5	6.13	2.99	5.51	3.18	1.73		0				
Total suspended solids	mg/L-sus	3	12	20	15.7	15	4.04	2.33	0.722		0				
Total Metals and Cyanide															
Cadmium	µg/L-ww	0									3	2	2	2	2
Calcium	µg/L-ww	3	486,000	580,000	518,333	489,000	53,426	30,845	1.73		0				
Chromium	µg/L-ww	0									3	2	4	3.33	4
Copper	µg/L-ww	0									3	1	2	1.33	1
Iron	µg/L-ww	1	524	524	524	524					0				
Lead	µg/L-ww	0									3	1	1	1	1
Magnesium	µg/L-ww	2	46,100	51,735	48,918	48,918	3,985	2,818			0				
Manganese	µg/L-ww	1	113	113	113	113					0				
Mercury (from Driscoll)	ng/L-ww	3	5.5	19.5	13.3	14.8	7.12	4.11	-0.924		0				
Mercury (from PTI)	ng/L-ww	3	8.58	20.8	12.7	8.68	7.00	4.04	1.73		0				
Total Mercury	ng/L-ww	6	5.5	20.8	13.0	11.7	6.33	2.58	0.210	-2.17	0				
Methylmercury	ng/L-ww	3	0.111	0.198	0.151	0.143	0.044	0.025	0.748		0				
Nickel	µg/L-ww	0									3	5	8	7	8
Sodium	µg/L-ww	3	285,000	332,000	302,333	290,000	25,813	14,903	1.66		0				
Zinc	µg/L-ww	2	3.3	5.6	4.45	4.45	1.63	1.15			1	2	2	2	2

Table G1-67. (cont.)

Analyte	Concen-tration Units	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Volatile Organic Compounds															
Benzene	µg/L-ww	0									3	1	1	1	1
Chlorobenzene	µg/L-ww	0									3	1	1	1	1
Ethylbenzene	µg/L-ww	0									3	1	1	1	1
Toluene	µg/L-ww	0									3	1	1	1	1
Xylene (Total)	µg/L-ww	0									3	1	3	1.67	1
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									3	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	0									3	1	1	1	1
1,3,5-Trichlorobenzene	µg/L-ww	0									3	1	1	1	1
1,2-Dichlorobenzene	µg/L-ww	0									3	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	0									3	1	1	1	1
1,4-Dichlorobenzene	µg/L-ww	0									3	1	1	1	1
Hexachlorobenzene	µg/L-ww	0									3	0.05	0.5	0.35	0.5

Table G1-68. Summary Statistics for Lower Geddes Brook Water Samples Collected by Honeywell/PTI in 1992 (base flow - less than or equal to 5.9 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	11	0.276	1.62	0.635	0.574	0.352	0.106	2.49	7.39	0				
Chloride	mg/L-ww	11	514	930	730	776	133	40.2	-0.54	-0.66	0				
Conductivity	umho/c	8	2,640	4,600	3,589	3,655	596	211	0.10	0.40	0				
Discharge instantaneous	cfs	8	8.24	13.3	10.6	10.3	1.80	0.638	0.29	-0.90	0				
Dissolved oxygen, wt/vol	mg/L-ww	6	9.81	12.9	10.9	10.6	1.15	0.468	1.12	0.64	0				
pH	pH	7	7.56	8.01	7.76	7.78	0.178	0.067	0.16	-1.85	0				
Sulfate	mg/L-ww	11	400	742	555	525	123	37.1	0.38	-1.33	0				
Temperature	degC	8	5.22	21.5	12.4	11.2	5.18	1.83	0.57	-0.01	0				
Total alkalinity	mg/L-ww	11	238	269	248	243	10.4	3.12	0.99	-0.12	0				
Total inorganic carbon	mg/L-ww	11	58.7	74.9	65.4	63.4	5.37	1.62	0.85	-0.29	0				
Total organic carbon	mg/L-ww	11	1.69	22.5	5.55	3.32	6.03	1.82	2.62	7.36	0				
Total suspended solids	mg/L-sus	11	4	18	13.2	14	3.71	1.12	-1.57	3.43	0				
Total Metals and Cyanide															
Cadmium	µg/L-ww	0									11	2	2	2	2
Calcium	µg/L-ww	11	316,000	445,000	404,182	435,000	48,466	14,613	-0.97	-0.67	0				
Chromium	µg/L-ww	0									11	2	4	3.27	4
Copper	µg/L-ww	4	2.1	3.8	2.58	2.2	0.818	0.409	1.98	3.94	7	1	3	1.71	1
Iron	µg/L-ww	1	565	565	565	565					0				
Lead	µg/L-ww	2	1	1.2	1.1	1.1	0.141	0.1			9	1	1.2	1.02	1
Magnesium	µg/L-ww	4	44,100	45,913	45,278	45,549	822	411	-1.51	2.12	0				
Manganese	µg/L-ww	1	121	121	121	121					0				
Total Mercury	ng/L-ww	12	30.1	218	99.5	71.6	66.3	19.1	0.512	-1.28	0				
Methylmercury	ng/L-ww	11	0.329	0.673	0.457	0.455	0.093	0.028	1.17	2.21	0				
Nickel	µg/L-ww	0									11	5	8	6.64	7
Sodium	µg/L-ww	11	194,000	331,000	266,727	278,000	38,270	11,539	-0.395	0.079	0				
Zinc	µg/L-ww	10	4.3	23.3	10.6	9.9	5.60	1.77	1.37	2.17	1	17	17	17	17

Table G1-68. (cont.)

Analyte	Concen-tration Units	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Volatile Organic Compounds															
Benzene	µg/L-ww	0									8	1	1	1	1
Chlorobenzene	µg/L-ww	0									8	1	1	1	1
Ethylbenzene	µg/L-ww	0									8	1	1	1	1
Toluene	µg/L-ww	1	5	5	5	5					7	1	1	1	1
Xylene (Total)	µg/L-ww	0									8	1	3	2	2
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									8	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	0									8	1	1	1	1
1,3,5-Trichlorobenzene	µg/L-ww	0									8	1	1	1	1
1,2-Dichlorobenzene	µg/L-ww	0									8	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	0									8	1	1	1	1
1,4-Dichlorobenzene	µg/L-ww	0									8	1	1	1	1
Hexachlorobenzene	µg/L-ww	0									8	0.05	0.5	0.28	0.28

Table G1-69. Summary Statistics for East Flume Water Samples Collected by Honeywell/PTI in 1992 (base flow - less than or equal to 3.0 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	14	0.166	4.18	2.11	1.95	1.16	0.31	-0.01	-0.27	0				
Chloride	mg/L-ww	14	101	610	359	383	141	37.8	-0.43	0.00	0				
Conductivity	umho/c	8	990	2,910	1,977	2,045	589	208	-0.09	0.29	0				
Discharge instantaneous	cfs	7	0.541	3.1	1.69	1.98	1.05	0.40	-0.02	-2.10	0				
Dissolved oxygen, wt/vol	mg/L-ww	7	2.72	8.45	5.58	5.89	2.35	0.89	-0.05	-2.20	0				
pH	pH	6	7.73	8.64	8.06	7.95	0.36	0.15	0.91	-0.48	0				
Sulfate	mg/L-ww	14	178	708	348	255	194	51.9	1.05	-0.48	0				
Temperature	degC	7	5.7	29.1	16.7	16.3	9.21	3.48	0.35	-1.20	0				
Total alkalinity	mg/L-ww	14	129	235	174	177	38.1	9.90	0.21	-1.44	0				
Total inorganic carbon	mg/L-ww	14	29.9	60.4	45.1	43.7	11.0	2.94	0.17	-1.56	0				
Total organic carbon	mg/L-ww	13	5.24	29.8	11.4	8.8	6.89	1.91	1.69	3.48	1	1	1	1	1
Total suspended solids	mg/L-sus	10	4	51	18.4	17	13.8	4.35	1.45	3.22	4	4	4	4	4
Total Metals and Cyanide															
Cadmium	µg/L-ww	0									14	2	2	2	2
Calcium	µg/L-ww	14	90,600	223,000	147,043	134,500	43,839	11,716	0.88	-0.40	0				
Chromium	µg/L-ww	3	2.7	10.6	6.23	5.4	4.02	2.32	0.89		11	2	4	3.45	4
Copper	µg/L-ww	13	2.1	15.2	7.59	8.2	3.44	0.96	0.41	0.83	1	5.3	5.3	5.3	5.3
Lead	µg/L-ww	7	1.3	10.8	5.26	3.7	3.67	1.39	0.80	-1.00	7	1	11.3	3.66	1
Magnesium	µg/L-ww	7	17,252	31,170	21,249	20,374	4,676	1,767	1.99	4.42	0				
Total Mercury	ng/L-ww	15	23.3	94.6	53.4	41.2	21.9	5.67	0.69	-0.60	0				
Methylmercury	ng/L-ww	14	0.490	1.24	0.798	0.838	0.202	0.05	0.50	0.31	0				
Nickel	µg/L-ww	0									14	5	8	6.71	7
Sodium	µg/L-ww	14	62,800	380,000	241,821	212,000	108,422	28,977	-0.19	-1.01	0				
Zinc	µg/L-ww	13	10.1	199	98.1	73.7	71.8	19.9	0.40	-1.58	1	32.8	32.8	32.8	32.8
Volatile Organic Compounds															
Benzene	µg/L-ww	1	15	15	15	15					13	1	1	1	1
Chlorobenzene	µg/L-ww	1	7.6	7.6	7.6	7.6					13	1	1	1	1
Ethylbenzene	µg/L-ww	0									14	1	1	1	1
Toluene	µg/L-ww	1	2.5	2.5	2.5	2.5					13	1	1	1	1
Xylene (Total)	µg/L-ww	1	1.4	1.4	1.4	1.4					13	1	3	1.31	1

Table G1-69. (cont.)

Analyte	Concen-tration Units	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									14	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	0									14	1	1	1	1
1,3,5-Trichlorobenzene	µg/L-ww	0									14	1	1	1	1
1,2-Dichlorobenzene	µg/L-ww	4	2	10	4.53	3.05	3.69	1.85	1.86	3.53	10	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	0									14	1	1	1	1
1,4-Dichlorobenzene	µg/L-ww	12	4.6	14	9.71	8.55	3.33	0.961	-0.093	-1.49	2	1	1	1	1
Hexachlorobenzene	µg/L-ww	0									11	0.05	0.5	0.214	0.05

Table G1-70. Summary Statistics for Tributary 5A Water Samples Collected by Honeywell/PTI in 1992 (base flow - less than or equal to 5.4 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	9	0.042	0.613	0.168	0.13	0.173	0.058	2.63	7.37	0				
Carbon dioxide	mg/L-ww	1	1.34	1.34	1.34	1.34					0				
Chloride	mg/L-ww	9	302	352	323	316	19.5	6.49	0.264	-1.95	0				
Conductivity	umho/c	7	1,168	1,670	1,423	1,426	167	63.2	-0.039	-0.190	0				
Discharge instantaneous	cfs	8	1.9	2.8	2.35	2.3	0.307	0.109	0.158	-0.949	0				
Dissolved oxygen, wt/vol	mg/L-ww	6	6	8.86	7.20	6.85	1.20	0.490	0.587	-1.80	0				
pH	pH	7	8.19	8.71	8.38	8.37	0.184	0.069	0.901	0.531	0				
Sulfate	mg/L-ww	9	92.8	137	113	107	16.2	5.40	0.524	-1.06	0				
Temperature	degC	6	10.4	27.5	20.1	21.8	6.99	2.85	-0.525	-1.68	0				
Total alkalinity	mg/L-ww	9	111	155	132	132	13.7	4.58	0.284	-0.368	0				
Total inorganic carbon	mg/L-ww	9	18	36.6	30.2	31.5	5.59	1.86	-1.34	2.29	0				
Total organic carbon	mg/L-ww	9	3.33	11	6.09	5.51	2.55	0.849	1.18	0.566	0				
Total suspended solids	mg/L-sus	5	4	14	9.4	10	3.97	1.78	-0.373	-1.10	4	4	4	4	4
Total Metals and Cyanide															
Cadmium	µg/L-ww	0									9	2	2	2	2
Calcium	µg/L-ww	9	89,300	124,000	99,689	91,900	11,854	3,951	1.13	0.710	0				
Chromium	µg/L-ww	9	4.4	28.3	11.5	8.9	7.98	2.66	1.50	1.53	0				
Copper	µg/L-ww	6	5.2	10.3	7.72	7.6	2.45	1.001	0.058	-2.88	3	6.6	7.6	7.03	6.9
Iron	µg/L-ww	1	396	396	396	396					0				
Lead	µg/L-ww	7	1.3	2.1	1.61	1.4	0.344	0.130	0.555	-1.96	2	1	1.9	1.45	1.45
Magnesium	µg/L-ww	2	13,382	14,500	13,941	13,941	791	559			0				
Manganese	µg/L-ww	1	89	89	89	89					0				
Total Mercury	ng/L-ww	10	4.91	19.5	8.20	6.91	4.22	1.33	2.50	6.96	0				
Methylmercury	ng/L-ww	10	0.051	0.488	0.139	0.104	0.129	0.041	2.67	7.62	0				
Nickel	µg/L-ww	9	18.4	115	59.5	53.9	33.3	11.1	0.814	-0.380	0				
Sodium	µg/L-ww	9	140,000	208,000	172,667	164,000	24,135	8,045	0.224	-1.65	0				
Zinc	µg/L-ww	6	4.7	59.3	17.3	9.9	20.9	8.54	2.27	5.32	3	7.3	37.7	17.9	8.6

Table G1-70. (cont.)

Analyte	Concen-tration Units	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Volatile Organic Compounds															
Benzene	µg/L-ww	3	6.9	34	19.3	17	13.7	7.91	0.734		6	1	1	1	1
Chlorobenzene	µg/L-ww	0									9	1	2	1.11	1
Ethylbenzene	µg/L-ww	0									9	1	2	1.11	1
Toluene	µg/L-ww	3	1.1	4.2	2.43	2	1.59	0.921	1.13		6	1	1	1	1
Xylene (Total)	µg/L-ww	4	1.1	2.2	1.65	1.65	0.465	0.233	-1.06E-16	-0.433	5	1	3	1.4	1
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									9	1	2	1.11	1
1,2,4-Trichlorobenzene	µg/L-ww	0									9	1	2	1.11	1
1,3,5-Trichlorobenzene	µg/L-ww	0									9	1	2	1.11	1
1,2-Dichlorobenzene	µg/L-ww	0									9	1	2	1.11	1
1,3-Dichlorobenzene	µg/L-ww	0									9	1	2	1.11	1
1,4-Dichlorobenzene	µg/L-ww	0									9	1	2	1.11	1
Hexachlorobenzene	µg/L-ww	0									8	0.05	0.5	0.163	0.05

Table G1-71. Summary Statistics for Harbor Brook Water Samples Collected by Honeywell/PTI in 1992 (base flow - less than or equal to 7.5 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	9	0.097	0.289	0.136	0.108	0.061	0.020	2.46	6.43	0				
Carbon dioxide	mg/L-ww	1	5.81	5.81	5.81	5.81					0				
Chloride	mg/L-ww	9	261	366	279	270	32.9	11.0	2.90	8.58	0				
Conductivity	umho/c	7	780	2,380	1,807	1,990	509	192	-1.54	3.16	0				
Discharge instantaneous	cfs	8	4.5	10.4	6.88	6.65	1.72	0.606	1.10	2.55	0				
Dissolved oxygen, wt/vol	mg/L-ww	6	8.79	11.7	10.1	10.1	1.04	0.424	0.370	-0.280	0				
pH	pH	7	7.91	8.26	8.06	8.02	0.119	0.045	0.629	-0.096	0				
Sulfate	mg/L-ww	9	398	706	566	597	112	37.3	-0.445	-1.33	0				
Temperature	degC	6	3.66	19	12.0	13.1	5.90	2.41	-0.418	-1.33	0				
Total alkalinity	mg/L-ww	9	229	280	249	246	16.0	5.33	1.00	0.693	0				
Total inorganic carbon	mg/L-ww	9	49.2	73.7	65.6	68.9	8.68	2.89	-1.20	0.232	0				
Total organic carbon	mg/L-ww	8	2.26	19	5.50	3.11	5.65	2.00	2.47	6.37	1	1	1	1	1
Total suspended solids	mg/L-sus	5	8	12	9.8	9	2.05	0.917	0.441	-3.16	4	4	4	4	4
Total Metals and Cyanide															
Cadmium	µg/L-ww	0									9	2	2	2	2
Calcium	µg/L-ww	9	226,000	271,000	251,222	248,000	14,078	4,693	-0.198	-0.080	0				
Chromium	µg/L-ww	1	4.5	4.5	4.5	4.5					8	2	4	3	3
Copper	µg/L-ww	1	1.6	1.6	1.6	1.6					8	1	3	2.25	2
Lead	µg/L-ww	1	1.7	1.7	1.7	1.7					8	1	1	1	1
Magnesium	µg/L-ww	2	44,376	46,054	45,215	45,215	1,187	839			0				
Total Mercury	ng/L-ww	10	1.84	4.04	3.40	3.57	0.645	0.204	-1.69	3.57	0				
Methylmercury	ng/L-ww	7	0.221	0.530	0.392	0.417	0.130	0.049	-0.417	-1.74	0				
Nickel	µg/L-ww	1	9.1	9.1	9.1	9.1					8	5	8	6.25	6
Sodium	µg/L-ww	9	108,000	213,000	134,000	125,000	31,369	10,456	2.41	6.39	0				
Zinc	µg/L-ww	4	4	6.4	5.03	4.85	1.07	0.533	0.716	-1.00	5	5.5	35.7	12.4	7.2
Volatile Organic Compounds															
Benzene	µg/L-ww	4	1	1.7	1.25	1.15	0.311	0.155	1.60	2.70	5	1	1	1	1
Chlorobenzene	µg/L-ww	0									9	1	1	1	1
Ethylbenzene	µg/L-ww	0									9	1	1	1	1
Toluene	µg/L-ww	7	1	2.6	1.53	1.5	0.577	0.218	1.07	0.995	2	1	1	1	1
Xylene (Total)	µg/L-ww	4	2	3.6	2.8	2.8	0.653	0.327	2.1E-15	1.50	5	1	3	2.2	3

Table G1-71. (cont.)

Analyte	Concen-tration Units	DETECTS N	DETECTS Minimum Detection	DETECTS Maximum Detection	DETECTS Mean	DETECTS Median	DETECTS Standard Deviation	DETECTS Standard Error	DETECTS Skewness	DETECTS Kurtosis	NON-DETECTS N	NON-DETECTS Minimum Detection Limit	NON-DETECTS Maximum Detection Limit	NON-DETECTS Mean	NON-DETECTS Median
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									9	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	0									9	1	1	1	1
1,3,5-Trichlorobenzene	µg/L-ww	0									9	1	1	1	1
1,2-Dichlorobenzene	µg/L-ww	0									9	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	0									9	1	1	1	1
1,4-Dichlorobenzene	µg/L-ww	0									9	1	1	1	1
Hexachlorobenzene	µg/L-ww	0									8	0.05	0.5	0.16	0.05

Table G1-72. Summary Statistics for Onondaga Creek Water Samples Collected by Honeywell/PTI, OCDDS & Driscoll in 1992 (base flow - less than or equal to 120 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	5	0.2	0.84	0.384	0.238	0.272	0.122	1.66	2.44	0				
Chloride (OCDDS)	mg/L-ww	7	362	947	513	446	202	76.3	2.12	4.91	0				
Chloride (PTI)	mg/L-ww	5	790	1,115	890	828	138	61.6	1.46	1.62	0				
Chloride	mg/L-ww	12	362	1,115	670	665	259	74.7	0.282	-1.40	0				
Conductivity	umho/c	8	3,020	4,000	3,433	3,360	353	125	0.631	-0.813	0				
Discharge instantaneous	cfs	1	99	99	99	99					0				
Dissolved oxygen, wt/vol	mg/L-ww	8	5.81	8.8	7.45	7.94	1.29	0.454	-0.439	-2.01	0				
pH	pH	8	7.56	7.91	7.75	7.78	0.124	0.044	-0.651	-0.678	0				
Sulfate	mg/L-ww	5	162	269	219	231	40.8	18.3	-0.393	-0.283	0				
Temperature	degC	8	11.1	21	15.0	14.3	3.51	1.24	0.615	-0.759	0				
Total alkalinity	mg/L-ww	5	231	248	236	236	6.95	3.11	1.55	2.61	0				
Total inorganic carbon	mg/L-ww	5	3.3	65.6	51.2	64	26.9	12.0	-2.19	4.81	0				
Total organic carbon	mg/L-ww	5	2.44	6.84	4.40	4.45	1.64	0.734	0.596	0.762	0				
Total suspended solids	mg/L-sus	5	5	39	15.4	13	14.0	6.24	1.67	2.99	0				
Total Metals and Cyanide															
Cadmium	µg/L-ww	0									5	2	2	2	2
Calcium	µg/L-ww	5	131,000	150,000	138,800	137,000	7,225	3,231	0.973	1.03	0				
Chromium	µg/L-ww	0									5	2	4	3.6	4
Copper	µg/L-ww	3	1.3	6.4	4.2	4.9	2.62	1.51	-1.12		2	2	3	2.5	2.5
Lead	µg/L-ww	2	1.3	3.5	2.4	2.4	1.56	1.1			3	1	1	1	1
Magnesium	µg/L-ww	2	27,570	28,368	27,969	27,969	564	399			0				
Mercury (Driscoll)	ng/L-ww	3	2.2	5.4	3.3	2.3	1.82	1.05	1.73		0				
Mercury (PTI)	ng/L-ww	5	1.78	14.3	6.24	4.67	4.80	2.15	1.57	2.84	0				
Total Mercury	ng/L-ww	8	1.78	14.3	5.14	4.32	4.05	1.43	1.94	4.32	0				
Methylmercury	ng/L-ww	4	0.203	0.447	0.312	0.298	0.103	0.052	0.685	0.596	0				
Nickel	µg/L-ww	0									5	5	8	6.8	7
Sodium	µg/L-ww	5	438,000	638,000	525,800	517,000	72,967	32,632	0.767	1.64	0				
Zinc	µg/L-ww	4	7.3	51.1	25.8	22.4	19.5	9.76	0.751	-0.964	1	7.1	7.1	7.1	7.1

Table G1-72. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Volatile Organic Compounds															
Benzene	µg/L-ww	0									4	1	1	1	1
Chlorobenzene	µg/L-ww	0									4	1	1	1	1
Ethylbenzene	µg/L-ww	0									4	1	1	1	1
Toluene	µg/L-ww	0									4	1	1	1	1
Xylene (Total)	µg/L-ww	0									4	1	3	1.5	1
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									4	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	0									4	1	1	1	1
1,3,5-Trichlorobenzene	µg/L-ww	0									4	1	1	1	1
1,2-Dichlorobenzene	µg/L-ww	0									4	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	0									4	1	1	1	1
1,4-Dichlorobenzene	µg/L-ww	0									4	1	1	1	1
Hexachlorobenzene	µg/L-ww	0									4	0.05	0.5	0.163	0.05

Table G1-73. Summary Statistics for Ley Creek Water Samples Collected by Honeywell/PTI & Driscoll in 1992 (base flow - less than or equal to 13.0 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	4	0.459	0.642	0.555	0.56	0.080	0.040	-0.263	-1.7	0				
Chloride	mg/L-ww	4	277	323	296	293	20.8	10.4	0.734	-1.3	0				
Conductivity	umho/c	4	1,520	1,680	1,583	1,565	71.4	35.7	1.1	0.501	0				
Discharge instantaneous	cfs	4	10.1	17.5	12.0	10.2	3.7	1.8	2.0	4.0	0				
Dissolved oxygen, wt/vol	mg/L-ww	4	5.42	9.4	7.56	7.71	1.7	0.864	-0.405	-1.2	0				
pH	pH	4	7.43	7.84	7.62	7.6	0.173	0.087	0.530	0.152	0				
Sulfate	mg/L-ww	4	184	250	210	204	28.1	14.1	1.3	2.4	0				
Temperature	degC	4	11.5	25	18.8	19.3	5.7	2.9	-0.452	-0.050	0				
Total alkalinity	mg/L-ww	4	237	264	251	251	14.0	7.0	7.4E-17	-5.5	0				
Total inorganic carbon	mg/L-ww	4	54.9	70	62.1	61.8	6.2	3.1	0.306	1.2	0				
Total organic carbon	mg/L-ww	4	6.97	9.26	7.83	7.5	1.0	0.522	1.1	0.361	0				
Total suspended solids	mg/L-sus	3	11	36	23	22	12.5	7.2	0.357		1	4	4	4	4
Total Metals and Cyanide															
Cadmium	µg/L-ww	0									4	2	2	2	2
Calcium	µg/L-ww	4	131,000	158,000	146,750	149,000	11,442	5,721	-1.1	1.6	0				
Chromium	µg/L-ww	3	2.6	4.3	3.2	2.6	0.981	0.567	1.7		1	4	4	4	4
Copper	µg/L-ww	3	2.3	4.1	3.4	3.7	0.945	0.546	-1.4		1	3	3	3	3
Lead	µg/L-ww	3	2.7	7.4	4.6	3.6	2.5	1.4	1.5		1	5.6	5.6	5.6	5.6
Magnesium	µg/L-ww	1	32,885	32,885	32,885	32,885					0				
Mercury (from Driscoll)	ng/L-ww	3	1.2	9.7	5.7	6.2	4.3	2.47	-0.519		0				
Mercury (from PTI)	ng/L-ww	4	1.532	9.42	5.6	5.8	3.4	1.7	-0.233	-1.3	0				
Total Mercury	ng/L-ww	7	1.2	9.7	5.7	6.2	3.5	1.3	-0.227	-1.6	0				
Methylmercury	ng/L-ww	3	0.042	0.309	0.155	0.115	0.138	0.080	1.2		0				
Nickel	µg/L-ww	0									4	5	8	6.25	6
Sodium	µg/L-ww	4	137,000	169,000	152,000	151,000	14,306	7,153	0.283	-2.4	0				
Zinc	µg/L-ww	3	10	21.9	16.9	18.9	6.2	3.6	-1.3		1	20.8	20.8	20.8	20.8
Volatile Organic Compounds															
Benzene	µg/L-ww	0									3	1	1	1	1
Chlorobenzene	µg/L-ww	0									3	1	1	1	1
Ethylbenzene	µg/L-ww	0									3	1	1	1	1

Table G1-73. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Toluene	µg/L-ww	0									3	1	1	1	1
Xylene (Total)	µg/L-ww	0									3	1	3	2.33	3
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									3	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	0									3	1	1	1	1
1,3,5-Trichlorobenzene	µg/L-ww	0									3	1	1	1	1
1,2-Dichlorobenzene	µg/L-ww	0									3	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	0									3	1	1	1	1
1,4-Dichlorobenzene	µg/L-ww	0									3	1	1	1	1
Hexachlorobenzene	µg/L-ww	0									3	0.05	0.5	0.2	0.05

Table G1-74. Summary Statistics for Onondaga Lake Outlet (W12) Water Samples Collected by Honeywell/PTI in 1992 (base flow - less than or equal to 373 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	3	0.646	2.45	1.60	1.7	0.906	0.523	-0.497		0				
Carbon dioxide	mg/L-ww	1	4.02	4.02	4.02	4.02					0				
Chloride	mg/L-ww	3	281	460	399	456	102	59.0	-1.73		0				
Conductivity	umho/c	14	900	2,250	1,821	1,930	435	116	-1.32	0.764	0				
Discharge instantaneous	cfs	3	210	2,950	1,161	322	1,551	895	1.72		0				
Dissolved oxygen, wt/vol	mg/L-ww	17	3.79	15.0	8.80	8.9	2.90	1	0.797	0.550	0				
pH	pH	11	7.57	8.18	7.8	7.63	0.256	0.077	0.5	-1.81	0				
Sulfate	mg/L-ww	3	130	156	144	146	13.1	7.57	-0.670		0				
Temperature	degC	14	5.01	23	15.9	21.1	8.48	2.27	-0.629	-1.83	0				
Total alkalinity	mg/L-ww	3	142	207	164	143	37.2	21.5	1.73		0				
Total inorganic carbon	mg/L-ww	3	34.7	53.5	41.5	36.2	10.4	6.03	1.69		0				
Total organic carbon	mg/L-ww	3	4.92	7.15	5.74	5.15	1.23	0.708	1.66		0				
Total suspended solids	mg/L-sus	2	4	11	7.5	7.5	4.95	3.5			1	4	4	4	4
Total Metals and Cyanide															
Cadmium	µg/L-ww	0									3	2	2	2	2
Calcium	µg/L-ww	3	106,000	181,000	144,333	146,000	37,528	21,667	-0.199		0				
Chromium	µg/L-ww	1	17.5	17.5	17.5	17.5					2	4	4	4	4
Copper	µg/L-ww	0									3	1	3	2	2
Lead	µg/L-ww	0									3	1	1	1	1
Magnesium	µg/L-ww	0									0				
Total Mercury	ng/L-ww	3	3.88	5.57	4.56	4.22	0.891	0.514	1.45		0				
Methylmercury	ng/L-ww	3	0.198	0.779	0.419	0.280	0.314	0.181	1.60		0				
Nickel	µg/L-ww	1	10.3	10.3	10.3	10.3					2	7	8	7.5	7.5
Sodium	µg/L-ww	3	131,000	230,000	186,667	199,000	50,639	29,237	-1.03		0				
Zinc	µg/L-ww	1	14.4	14.4	14.4	14.4					2	4.2	15.5	9.85	9.85
Volatile Organic Compounds															
Benzene	µg/L-ww	0									2	1	1	1	1
Chlorobenzene	µg/L-ww	0									2	1	1	1	1
Ethylbenzene	µg/L-ww	0									2	1	1	1	1
Toluene	µg/L-ww	0									2	1	1	1	1
Xylene (Total)	µg/L-ww	0									2	1	3	2	2

Table G1-74. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									2	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	0									2	1	1	1	1
1,3,5-Trichlorobenzene	µg/L-ww	0									2	1	1	1	1
1,2-Dichlorobenzene	µg/L-ww	0									2	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	0									2	1	1	1	1
1,4-Dichlorobenzene	µg/L-ww	0									2	1	1	1	1
Hexachlorobenzene	µg/L-ww	0									2	0.05	0.5	0.275	0.275

Table G1-75. Summary Statistics for Metro Water Samples Collected by Honeywell/PTI & Driscoll in 1992 (base flow - less than or equal to 95 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	4	4.72	13.6	9.29	9.42	3.63	1.81	-0.210	1.52	0				
Chloride	mg/L-ww	4	97.9	163	130	130	34.8	17.4	0.014	-5.78	0				
Conductivity	umho/c	3	426	1,234	900	1,040	422	244	-1.33		0				
Dissolved oxygen, wt/vol	mg/L-ww	2	8.26	9.23	8.75	8.75	0.686	0.485			0				
Sulfate	mg/L-ww	4	182	213	200	202	13.6	6.81	-0.664	-0.899	0				
Temperature	degC	3	14	20.6	17.2	16.9	3.31	1.91	0.352		0				
Total alkalinity	mg/L-ww	4	159	208	183	182	25.6	12.8	0.052	-5.56	0				
Total inorganic carbon	mg/L-ww	4	47.8	63.4	53.4	51.1	7.13	3.56	1.38	1.43	0				
Total organic carbon	mg/L-ww	4	18.1	22.7	20.4	20.4	2.26	1.13	0.025	-4.94	0				
Total suspended solids	mg/L-sus	3	5	19	11	9	7.21	4.16	1.15		1	4	4	4	4
Total Metals and Cyanide															
Cadmium	µg/L-ww	0									4	2	2	2	2
Calcium	µg/L-ww	4	79,600	108,000	92,775	91,750	12,595	6,298	0.344	-2.03	0				
Chromium	µg/L-ww	1	2.5	2.5	2.5	2.5					3	4	4	4	4
Copper	µg/L-ww	4	5.3	12.1	7.95	7.2	3.00	1.500	1.20	1.05	0				
Lead	µg/L-ww	1	1.1	1.1	1.1	1.1					3	1	1	1	1
Mercury (from Driscoll)	ng/L-ww	2	15.2	18.1	16.7	16.7	2.05	1.45			0				
Mercury (from PTI)	ng/L-ww	4	9.52	56.4	27.9	22.9	20.1	10.0	1.35	2.35	0				
Total Mercury	ng/L-ww	6	9.52	56.4	24.2	19.3	16.6	6.79	1.91	4.09	0				
Methylmercury	ng/L-ww	4	1.53	3.14	2.06	1.80	0.732	0.366	1.72	2.99	0				
Nickel	ug/L-ww	3	10.7	19.4	16.2	18.6	4.81	2.78	-1.68		1	7	7	7	7
Sodium	µg/L-ww	4	83,000	106,000	95,800	97,100	11,490	5,745	-0.239	-4.56	0				
Zinc	µg/L-ww	3	26.9	41.7	32.7	29.5	7.90	4.56	1.52		1	30	30	30	30
Volatile Organic Compounds															
Benzene	µg/L-ww	0									3	1	1	1	1
Chlorobenzene	µg/L-ww	0									3	1	1	1	1
Ethylbenzene	µg/L-ww	0									3	1	1	1	1
Toluene	µg/L-ww	1	3.1	3.1	3.1	3.1					2	1	1	1	1
Xylene (Total)	µg/L-ww	0									3	1	3	1.67	1

Table G1-75. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									3	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	0									3	1	1	1	1
1,3,5-Trichlorobenzene	µg/L-ww	0									3	1	1	1	1
1,2-Dichlorobenzene	µg/L-ww	0									3	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	0									3	1	1	1	1
1,4-Dichlorobenzene	µg/L-ww	0									3	1	1	1	1
Hexachlorobenzene	µg/L-ww	0									3	0.05	0.05	0.05	0.05

Table G1-76. Summary Statistics for Upper Ninemile Creek Water Samples Collected by Honeywell/PTI in 1992 (intermediate flow - 88 to 155 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	5	0.04	0.24	0.106	0.08	0.08	0.04	1.42	1.90	6	0.01	0.01	0.01	0.01
Chloride	mg/L-ww	10	34.8	103	58.4	52.2	25.6	8.10	1.06	-0.20	1	36.1	36.1	36.1	36.1
Conductivity	umho/c	7	656	1,020	808	742	139	52.5	0.68	-1.23	0				
Discharge instantaneous	cfs	5	66.8	158	113	118	33.9	15.1	-0.06	0.32	0				
Dissolved oxygen, wt/vol	mg/L-ww	5	7.6	13.8	11.0	11.5	2.53	1.13	-0.41	-1.62	0				
pH	pH	4	7.76	7.9	7.83	7.83	0.06	0.03	8.6E-14	-0.59	0				
Sulfate	mg/L-ww	11	142	245	200	211	30.3	9.15	-0.63	-0.04	0				
Temperature	degC	7	3.3	16.6	7.95	6.7	4.63	1.75	1.08	1.16	0				
Total alkalinity	mg/L-ww	11	170	263	216	221	26.9	8.11	-0.03	-0.26	0				
Total inorganic carbon	mg/L-ww	11	43.9	64.9	56	58.3	5.88	1.77	-0.61	0.38	0				
Total organic carbon	mg/L-ww	11	2.25	12.8	4.97	4.25	2.87	0.87	2.34	6.24	0				
Total suspended solids	mg/L-sus	9	5	862	155	27	281	93.8	2.45	6.24	2	4	4	4	4
Total Metals and Cyanide															
Cadmium	µg/L-ww	0									11	2	2	2	2
Calcium	µg/L-ww	11	89,300	152,000	125,664	126,000	19,434	5,859	-0.34	-0.50	0				
Chromium	µg/L-ww	2	7.6	7.8	7.7	7.7	0.141	0.1			9	2	4	3.78	4
Copper	µg/L-ww	8	1.5	19.2	7.19	4.8	6.12	2.16	1.37	1.02	3	3	3	3	3
Lead	µg/L-ww	7	1	7.7	2.9	1.8	2.50	0.94	1.56	1.47	4	1	4.2	1.8	1
Magnesium	µg/L-ww	2	23,570	26,800	25,185	25,185	2,284	1,615			0				
Total Mercury	ng/L-ww	11	1.48	34.8	9.39	6.05	9.94	3.00	1.93	3.95	0				
Methylmercury	ng/L-ww	6	0.07	0.58	0.26	0.25	0.20	0.08	0.78	0.15	4	0.04	0.12	0.07	0.06
Nickel	µg/L-ww	3	4.1	16.9	11.2	12.5	6.50	3.75	-0.88		8	4	7	6.38	7
Sodium	µg/L-ww	11	16,500	57,200	29,745	23,700	14,724	4,439	1.22	0.02	0				
Zinc	µg/L-ww	9	3.6	92.2	32.5	10.6	34.6	11.5	0.84	-1.04	2	13.1	35.1	24.1	24.1
Volatile Organic Compounds															
Benzene	µg/L-ww	0									8	1	1	1	1
Chlorobenzene	µg/L-ww	0									8	1	1	1	1
Ethylbenzene	µg/L-ww	0									8	1	1	1	1
Toluene	µg/L-ww	0									8	1	1	1	1

Table G1-76. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Xylene (Total)	µg/L-ww	0									8	1	3	1.25	1
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									8	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	0									8	1	1	1	1
1,3,5-Trichlorobenzene	µg/L-ww	0									8	1	1	1	1
1,2-Dichlorobenzene	µg/L-ww	0									8	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	0									8	1	1	1	1
1,4-Dichlorobenzene	µg/L-ww	0									8	1	1	1	1
Hexachlorobenzene	µg/L-ww	0									7	0.05	0.5	0.18	0.05

Table G1-77. Summary Statistics for Lower Ninemile Creek Water Samples Collected by Honeywell/PTI & Driscoll in 1992 (intermediate flow - 110 to 193 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	9	0.26	0.41	0.36	0.36	0.05	0.02	-0.89	0.36	0				
Chloride	mg/L-ww	9	544	742	665	677	74.4	24.8	-0.61	-1.04	0				
Conductivity	umho/c	7	1,300	3,160	2,337	2,550	642	243	-0.63	-0.42	0				
Discharge instantaneous	cfs	4	0	142	104	137	69.2	34.6	-1.99	3.95	0				
Dissolved oxygen, wt/vol	mg/L-ww	6	9.2	14.5	12.0	12	1.96	0.80	-0.18	-1.13	0				
pH	pH	4	7.59	7.86	7.70	7.67	0.13	0.06	0.82	-1.44	0				
Sulfate	mg/L-ww	9	154	237	200	192	32.9	11.0	-0.03	-2.02	0				
Temperature	degC	7	3.3	16.8	7.48	6.18	4.84	1.83	1.35	1.51	0				
Total alkalinity	mg/L-ww	9	173	237	203	203	21.3	7.08	0.28	-0.80	0				
Total inorganic carbon	mg/L-ww	9	21.5	64.6	48.3	49.8	13.0	4.33	-0.99	1.47	0				
Total organic carbon	mg/L-ww	9	2.25	16	6.36	5.28	3.95	1.32	2.16	5.15	0				
Total suspended solids	mg/L-sus	9	4	290	53.4	25	91.1	30.4	2.72	7.71	0				
Total Metals and Cyanide															
Cadmium	µg/L-ww	0									9	2	2	2	2
Calcium	µg/L-ww	9	233,000	341,000	302,000	306,000	32,152	10,717	-1.17	1.86	0				
Chromium	µg/L-ww	2	7.7	12.1	9.9	9.9	3.11	2.2			7	2	4	3.71	4
Copper	µg/L-ww	6	1.5	15.7	6.38	5.15	4.82	1.97	1.83	4.24	3	3	7.3	4.43	3
Lead	µg/L-ww	6	1.2	21.5	7.22	3.9	7.44	3.04	1.88	3.63	3	1	3.1	1.7	1
Magnesium	µg/L-ww	2	33,480	35,450	34,465	34,465	1,393	985			0				
Mercury (from Driscoll)	ng/L-ww	3	16.7	18.2	17.4	17.4	0.751	0.43	0.20		0				
Mercury (from PTI)	ng/L-ww	10	8.33	88.1	35.6	18.4	29.5	9.33	0.79	-1.05	0				
Total Mercury	ng/L-ww	13	8.33	88.1	31.4	18.2	26.8	7.42	1.22	0.05	0				
Methylmercury	ng/L-ww	9	0.07	1.02	0.28	0.14	0.31	0.10	2.04	4.29	0				
Nickel	µg/L-ww	3	8.4	9.5	8.97	9	0.55	0.32	-0.27		6	4	7	5.67	6
Sodium	µg/L-ww	9	131,000	213,000	178,444	172,000	26,963	8,988	-0.31	-0.53	0				
Zinc	µg/L-ww	6	13.9	88	32.9	22.2	27.5	11.2	2.25	5.26	3	2	5.4	3.13	2

Table G1-77. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Volatile Organic Compounds															
Benzene	µg/L-ww	0									6	1	1	1	1
Chlorobenzene	µg/L-ww	0									6	1	1	1	1
Ethylbenzene	µg/L-ww	0									6	1	1	1	1
Toluene	µg/L-ww	0									6	1	1	1	1
Xylene (Total)	µg/L-ww	0									6	1	3	1.33	1
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									6	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	0									6	1	1	1	1
1,3,5-Trichlorobenzene	µg/L-ww	0									6	1	1	1	1
1,2-Dichlorobenzene	µg/L-ww	0									6	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	0									6	1	1	1	1
1,4-Dichlorobenzene	µg/L-ww	0									6	1	1	1	1
Hexachlorobenzene	µg/L-ww	0									6	0.05	0.5	0.2	0.05

Table G1-78. Summary Statistics for Lower Geddes Brook Water Samples Collected by Honeywell/PTI in 1992 (intermediate flow - 5.9 to 9.8 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	5	0.36	0.51	0.42	0.38	0.07	0.03	0.62	-2.97	0				
Chloride	mg/L-ww	5	441	913	682	686	219	98.2	-0.04	-2.87	0				
Conductivity	umho/c	3	1,840	3,020	2,527	2,720	613	354	-1.28		0				
Discharge instantaneous	cfs	1	12.2	12.2	12.2	12.2					0				
Dissolved oxygen, wt/vol	mg/L-ww	1	9.43	9.43	9.43	9.43					0				
pH	pH	1	7.78	7.78	7.78	7.78					0				
Sulfate	mg/L-ww	4	344	595	433	396	118	59.1	1.19	0.44	0				
Temperature	degC	3	3.3	17.4	8.31	4.2	7.91	4.57	1.71		0				
Total alkalinity	mg/L-ww	5	202	253	221.2	211	21.7	9.69	0.93	-0.92	0				
Total inorganic carbon	mg/L-ww	4	52.7	67.4	60.0	59.9	6.16	3.08	0.07	0.06	0				
Total organic carbon	mg/L-ww	5	2.25	9.63	5.29	4.91	2.56	1.14	1.67	3.32	0				
Total suspended solids	mg/L-sus	5	8	170	63.8	48	65.9	29.5	1.31	1.51	0				
Total Metals and Cyanide															
Cadmium	µg/L-ww	0									5	2	2	2	2
Calcium	µg/L-ww	5	263,000	348,000	304,000	306,000	30,389	13,590	0.23	1.64	0				
Chromium	µg/L-ww	0									5	2	4	3.6	4
Copper	µg/L-ww	4	5.7	7	6.23	6.1	0.56	0.28	1.20	1.82	1	2	2	2	2
Lead	µg/L-ww	4	1	5.6	4.1	4.9	2.15	1.07	-1.59	2.31	1	1	1	1	1
Magnesium	µg/L-ww	1	36,274	36,274	36,274	36,274					0				
Total Mercury	ng/L-ww	4	17.8	413	154	92.4	177	88.3	1.75	3.31	0				
Methylmercury	ng/L-ww	5	0.08	1.03	0.50	0.46	0.37	0.16	0.56	-0.09	0				
Nickel	µg/L-ww	1	5	5	5	5					4	4	7	5.75	6
Sodium	µg/L-ww	5	180,000	397,000	272,200	198,000	113,000	50,423	0.59	-3.31	0				
Zinc	µg/L-ww	5	15.7	38.1	30.7	33.2	8.88	3.97	-1.67	2.97	0				
Volatile Organic Compounds															
Benzene	µg/L-ww	0									5	1	1	1	1
Chlorobenzene	µg/L-ww	0									5	1	1	1	1
Ethylbenzene	µg/L-ww	0									5	1	1	1	1

Table G1-78. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Toluene	µg/L-ww	0									5	1	1	1	1
Xylene (Total)	µg/L-ww	0									5	1	3	1.4	1
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									5	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	0									5	1	1	1	1
1,3,5-Trichlorobenzene	µg/L-ww	0									5	1	1	1	1
1,2-Dichlorobenzene	µg/L-ww	0									5	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	0									5	1	1	1	1
1,4-Dichlorobenzene	µg/L-ww	0									5	1	1	1	1
Hexachlorobenzene	µg/L-ww	0									5	0.05	0.5	0.23	0.05

Table G1-79. Summary Statistics for East Flume Water Samples Collected by Honeywell/PTI in 1992 (intermediate flow - 3.0 to 3.8 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	7	0.94	5.14	3.40	4.83	1.97	0.74	-0.45	-2.50	0				
Carbon dioxide	mg/L-ww	0									1	1	1	1	1
Chloride	mg/L-ww	7	208	571	468	551	134	50.6	-1.43	1.69	0				
Conductivity	umho/c	3	1,350	2,570	1,777	1,410	688	397	1.72		0				
Discharge instantaneous	cfs	1	1.3	1.3	1.3	1.3					0				
Dissolved oxygen, wt/vol	mg/L-ww	2	5.53	6.3	5.92	5.92	0.54	0.38			0				
pH	pH	1	8.54	8.54	8.54	8.54					0				
Sulfate	mg/L-ww	7	111	467	358	443	147	55.7	-1.25	-0.43	0				
Temperature	degC	3	8.9	21.1	16.6	19.7	6.66	3.84	-1.65		0				
Total alkalinity	mg/L-ww	7	168	246	222	235	38.1	11.6	-1.31	0.09	0				
Total inorganic carbon	mg/L-ww	7	2.25	64.7	55.4	62.5	14.1	5.32	-1.66	1.88	0				
Total organic carbon	mg/L-ww	7	7.48	14.9	11.5	12.1	2.87	1.09	-0.55	-1.28	0				
Total suspended solids	mg/L-sus	7	7	274	48.4	10	99.6	37.6	2.63	6.94	0				
Total Metals and Cyanide															
Cadmium	µg/L-ww	0									7	2	2	2	2
Calcium	µg/L-ww	7	125,000	179,000	157,000	161,000	17,547	6,632	-0.99	1.22	0				
Chromium	µg/L-ww	3	2.2	8.3	4.97	4.4	3.09	1.78	0.80		4	2	4	3.5	4
Copper	µg/L-ww	7	4.7	18	7.91	6.5	4.59	1.73	2.33	5.72	0				
Lead	µg/L-ww	7	1.2	28.3	5.3	1.5	10.1	3.83	2.64	6.99	0				
Magnesium	µg/L-ww	4	31,900	34,130	33,148	33,280	1,041	521	-0.42	-3.09	0				
Total Mercury	ng/L-ww	5	46.7	129	96.0	91.0	32.7	14.6	-0.78	0.32	0				
Methylmercury	ng/L-ww	5	0.67	2.69	1.56	1.34	0.75	0.33	0.72	1.17	0				
Nickel	µg/L-ww	2	7.1	8.7	7.9	7.9	1.13	0.8			5	5	7	6.6	7
Sodium	µg/L-ww	7	111,000	403,000	314,000	373,000	113,311	42,828	-1.23	0.23	0				
Zinc	µg/L-ww	7	58.6	179	126	138	43.1	16.3	-0.71	-0.59	0				
Volatile Organic Compounds															
Benzene	µg/L-ww	0									7	1	1	1	1
Chlorobenzene	µg/L-ww	0									7	1	1	1	1

Table G1-79. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Ethylbenzene	µg/L-ww	0									7	1	1	1	1
Toluene	µg/L-ww	0									7	1	1	1	1
Xylene (Total)	µg/L-ww	0									7	1	3	1.29	1
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									7	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	4	0.91	1.1	0.99	0.97	0.08	0.04	0.97	0.10	3	1	1	1	1
1,3,5-Trichlorobenzene	µg/L-ww	0									7	1	1	1	1
1,2-Dichlorobenzene	µg/L-ww	0									7	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	0									7	1	1	1	1
1,4-Dichlorobenzene	µg/L-ww	4	2	2.4	2.2	2.2	0.18	0.09	-7.2E-15	-3.3	3	1	1	1	1
Hexachlorobenzene	µg/L-ww	0									6	0.05	0.05	0.05	0.05

Table G1-80. Summary Statistics for Tributary 5A Water Samples Collected by Honeywell/PTI in 1992 (intermediate flow - 7.1 to 5.4 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	5	0.13	0.20	0.16	0.16	0.03	0.01	0.23	-2.26	0				
Chloride	mg/L-ww	5	216	349	298	323	57.2	25.6	-0.84	-1.26	0				
Conductivity	umho/c	3	1,440	1,770	1,553	1,450	188	108	1.73		0				
Discharge instantaneous	cfs	1	2.2	2.2	2.2	2.2					0				
Dissolved oxygen, wt/vol	mg/L-ww	2	4.97	11.6	8.29	8.29	4.69	3.32			0				
pH	pH	1	8.27	8.27	8.27	8.27					0				
Sulfate	mg/L-ww	5	62.2	142	104	102	30.4	13.6	-0.18	-0.31	0				
Temperature	degC	3	5.1	24.7	15.3	16	9.83	5.68	-0.33		0				
Total alkalinity	mg/L-ww	5	102	121	113	117	8.67	3.88	-0.56	-2.78	0				
Total inorganic carbon	mg/L-ww	5	25.9	32.9	29.1	29.3	2.67	1.20	0.36	-0.15	0				
Total organic carbon	mg/L-ww	5	2.25	7.91	5.81	5.41	1.50	0.67	0.32	0.05	0				
Total suspended solids	mg/L-sus	3	4.5	135	52.5	18	71.8	41.4	1.66		2	4	4	4	4
Total Metals and Cyanide															
Cadmium	µg/L-ww	1	2.4	2.4	2.4	2.4					4	2	2	2	2
Calcium	µg/L-ww	5	79,100	95,600	90,080	91,800	6,387	2,856	-1.80	3.67	0				
Chromium	µg/L-ww	5	9.1	119	45.3	10	51.0	22.8	0.94	-1.41	0				
Copper	µg/L-ww	5	4.4	30.2	14.0	5.4	12.4	5.55	0.71	-2.69	0				
Lead	µg/L-ww	5	2	13.9	6.48	2.6	5.7	2.57	0.70	-2.75	0				
Magnesium	µg/L-ww	5	12,200	13,080	12,742	12,934	358	160	-1.02	-0.17	0				
Total Mercury	ng/L-ww	5	8.72	89.9	35.9	11.3	37.2	16.6	0.95	-1.34	0				
Methylmercury	ng/L-ww	5	0.13	1.58	0.53	0.15	0.63	0.28	1.62	2.21	0				
Nickel	µg/L-ww	5	29.6	92.6	48.6	30	28.1	12.6	1.27	0.38	0				
Sodium	µg/L-ww	5	118,000	152,000	141,400	148,000	14,206	6,353	-1.52	1.91	0				
Zinc	µg/L-ww	5	5.2	117	48	8.7	56.8	25.4	0.64	-3.13	0				
Volatile Organic Compounds															
Benzene	µg/L-ww	0									5	1	1	1	1
Chlorobenzene	µg/L-ww	0									5	1	1	1	1
Ethylbenzene	µg/L-ww	0									5	1	1	1	1

Table G1-80. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Toluene	µg/L-ww	0									5	1	1	1	1
Xylene (Total)	µg/L-ww	0									5	1	3	2.2	3
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									5	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	0									5	1	1	1	1
1,3,5-Trichlorobenzene	µg/L-ww	0									5	1	1	1	1
1,2-Dichlorobenzene	µg/L-ww	0									5	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	0									5	1	1	1	1
1,4-Dichlorobenzene	µg/L-ww	0									5	1	1	1	1
Hexachlorobenzene	µg/L-ww	0									4	0.05	0.05	0.05	0.05

Table G1-81. Summary Statistics for Harbor Brook Water Samples Collected by Honeywell/PTI in 1992 (intermediate flow - 7.5 to 12.6 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	3	0.09	0.17	0.12	0.09	0.04	0.02	1.7		0				
Chloride	mg/L-ww	3	124	293	181	125	97.3	56.2	1.7		0				
Conductivity	umho/c	2	1,510	2,040	1,775	1,775	375	265			0				
Dissolved oxygen, wt/vol	mg/L-ww	2	9.02	15.0	12.0	12.0	4.22	2.99			0				
pH	pH	1	8.06	8.06	8.06	8.06					0				
Sulfate	mg/L-ww	3	211	399	277	222	106	60.9	1.7		0				
Temperature	degC	2	3.5	15.6	9.53	9.53	8.52	6.03			0				
Total alkalinity	mg/L-ww	3	194	225	211	213	15.6	9.02	-0.66		0				
Total inorganic carbon	mg/L-ww	3	48.2	64.1	58.1	62	8.64	4.99	-1.6		0				
Total organic carbon	mg/L-ww	3	2.96	16.3	9.23	8.42	6.71	3.87	0.53		0				
Total suspended solids	mg/L-sus	2	2.25	31	19.3	19.3	16.6	11.8			1	4	4	4	4
Total Metals and Cyanide															
Cadmium	µg/L-ww	0									3	2	2	2	2
Calcium	µg/L-ww	3	146,000	233,000	178,333	156,000	47,606	27,485	1.6		0				
Chromium	µg/L-ww	2	5	5.7	5.35	5.35	0.49	0.35			1	2	2	2	2
Copper	µg/L-ww	1	6.7	6.7	6.7	6.7					2	2	3	2.5	2.5
Lead	µg/L-ww	2	1.9	6.7	4.3	4.3	3.39	2.4			1	1	1	1	1
Magnesium	µg/L-ww	3	27,700	39,312	32,641	30,910	5,996	3,462	1.2		0				
Total Mercury	ng/L-ww	3	4.42	8.63	6.26	5.74	2.15	1.24	1.0		0				
Methylmercury	ng/L-ww	3	0.34	0.91	0.61	0.59	0.28	0.16	0.32		0				
Nickel	µg/L-ww	0									3	5	7	6.33	7
Sodium	µg/L-ww	3	66,700	128,000	88,267	70,100	34,452	19,891	1.7		0				
Zinc	µg/L-ww	3	3.9	29	14.7	11.1	12.9	7.46	1.1		0				
Volatile Organic Compounds															
Benzene	µg/L-ww	0									3	1	1	1	1
Chlorobenzene	µg/L-ww	0									3	1	1	1	1
Ethylbenzene	µg/L-ww	0									3	1	1	1	1
Toluene	µg/L-ww	0									3	1	1	1	1

Table G1-81. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Xylene (Total)	µg/L-ww	0									3	1	3	1.67	1
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									3	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	0									3	1	1	1	1
1,3,5-Trichlorobenzene	µg/L-ww	0									3	1	1	1	1
1,2-Dichlorobenzene	µg/L-ww	0									3	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	0									3	1	1	1	1
1,4-Dichlorobenzene	µg/L-ww	0									3	1	1	1	1
Hexachlorobenzene	µg/L-ww	0									3	0.05	0.05	0.05	0.05

Table G1-82. Summary Statistics for Onondaga Creek Water Samples Collected by Honeywell/PTI, OCDDS & Driscoll in 1992 (intermediate flow - 120 to 204 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	9	0.06	0.41	0.24	0.2	0.14	0.05	0.04	-2.07	0				
Chloride (OCDDS)	mg/L-ww	12	226	763	308	278	145	42.0	3.29	11.1	0				
Chloride (PTI)	mg/L-ww	9	480	1,040	680	604	176	58.7	1.17	1.06	0				
Chloride	mg/L-ww	21	226	1,040	467	307	244	53.3	0.82	-0.34	0				
Conductivity	umho/c	14	1,850	3,610	2,541	2,285	612	163	0.64	-0.97	0				
Discharge instantaneous	cfs	1	152	152	152	152					0				
Dissolved oxygen, wt/vol	mg/L-ww	11	7.6	12	9.13	8.09	1.84	0.56	0.83	-1.29	0				
pH	pH	10	7.53	7.93	7.73	7.74	0.16	0.05	-0.05	-2.14	0				
Sulfate	mg/L-ww	9	105	225	157	149	38.8	12.9	0.60	-0.16	0				
Temperature	degC	14	2.2	17.6	12.0	15.1	6.00	1.60	-0.72	-1.38	0				
Total alkalinity	mg/L-ww	9	2.25	269	237	242	21.1	7.04	0.43	-1.22	0				
Total inorganic carbon	mg/L-ww	9	48.7	72.5	62	62.9	7.00	2.33	-0.57	0.60	0				
Total organic carbon	mg/L-ww	9	3.16	59	11.2	4.76	18.1	6.02	2.92	8.63	0				
Total suspended solids	mg/L-sus	9	15	50	26.7	26	11.7	3.90	0.93	0.41	0				
Total Metals and Cyanide															
Cadmium	µg/L-ww	0									9	2	2	2	2
Calcium	µg/L-ww	9	94,000	138,000	112,778	113,000	12,892	4,297	0.68	0.89	0				
Chromium	µg/L-ww	1	2.2	2.2	2.2	2.2					8	2	4	3	3
Copper	µg/L-ww	6	2.7	11	6.23	5.55	3.46	1.41	0.44	-1.86	3	1	3	2.33	3
Iron	µg/L-ww	1	209	209	209	209					0				
Lead	µg/L-ww	6	1.3	17.4	7.25	3.2	7.41	3.03	0.93	-1.80	3	1	5.6	2.53	1
Magnesium	µg/L-ww	2	19,100	21,573	20,337	20,337	1,749	1,237			0				
Manganese	µg/L-ww	1	42.3	42.3	42.3	42.3					0				
Mercury (Driscoll)	ng/L-ww	4	1.4	8	5	5.3	3.50	1.75	-0.10	-5.42	0				
Mercury (PTI)	ng/L-ww	9	1.12	125	28.9	5.98	44.0	14.7	1.73	2.08	0				
Total Mercury	ng/L-ww	13	1.12	125	21.6	5.98	37.8	10.5	2.27	4.58	0				
Methylmercury	ng/L-ww	8	0.07	1.44	0.54	0.27	0.53	0.19	0.83	-1.09	0				
Nickel	µg/L-ww	0									9	4	8	5.67	5

Table G1-82. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Sodium	µg/L-ww	9	262,000	569,000	370,556	356,000	86,679	28,893	1.52	3.60	0				
Zinc	µg/L-ww	8	3.6	84.5	27.3	11.6	31.8	11.2	1.30	0.05	1	16.5	16.5	16.5	16.5
Volatile Organic Compounds															
Benzene	µg/L-ww	0									7	1	1	1	1
Chlorobenzene	µg/L-ww	0									7	1	1	1	1
Ethylbenzene	µg/L-ww	0									7	1	1	1	1
Toluene	µg/L-ww	0									7	1	1	1	1
Xylene (Total)	µg/L-ww	0									7	1	3	1.57	1
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									7	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	0									7	1	1	1	1
1,3,5-Trichlorobenzene	µg/L-ww	0									7	1	1	1	1
1,2-Dichlorobenzene	µg/L-ww	0									7	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	0									7	1	1	1	1
1,4-Dichlorobenzene	µg/L-ww	0									7	1	1	1	1
Hexachlorobenzene	µg/L-ww	0									7	0.05	0.5	0.18	0.05

Table G1-83. Summary Statistics for Ley Creek Water Samples Collected by Honeywell/PTI & Driscoll in 1992 (intermediate flow - 13 to 54 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	9	0.26	0.92	0.47	0.49	0.21	0.07	1.12	1.33	0				
Chloride	mg/L-ww	9	153	386	226	221	75.5	25.2	1.19	1.61	0				
Conductivity	umho/c	8	810	1,860	1,373	1,488	381	135	-0.56	-0.88	0				
Discharge instantaneous	cfs	5	10.8	41.5	23.8	23.9	12.3	5.51	0.56	-0.55	0				
Dissolved oxygen, wt/vol	mg/L-ww	6	5.5	11.35	7.76	6.27	2.76	1.13	0.91	-1.88	0				
pH	pH	6	7.27	7.54	7.41	7.40	0.11	0.04	0.05	-1.72	0				
Sulfate	mg/L-ww	9	103	179	139	135	28.3	9.44	0.05	-1.77	0				
Temperature	degC	8	1.98	19.4	11.1	12.1	6.41	2.27	-0.35	-1.41	0				
Total alkalinity	mg/L-ww	9	174	283	218	200	39.5	13.2	0.64	-1.25	0				
Total inorganic carbon	mg/L-ww	9	44	76	56.8	52.7	11.1	3.69	0.71	-0.83	0				
Total organic carbon	mg/L-ww	9	2.25	19	12.2	11.3	3.07	1.02	1.57	2.38	0				
Total suspended solids	mg/L-sus	7	10	42	18.7	17	11.0	4.16	1.96	4.29	2	4	4	4	4
Total Metals and Cyanide															
Cadmium	µg/L-ww	0									9	2	2	2	2
Calcium	µg/L-ww	9	71,400	143,000	114,156	113,000	20,151	6,717	-0.89	2.30	0				
Chromium	µg/L-ww	1	3.9	3.9	3.9	3.9					8	4	4	4	4
Copper	µg/L-ww	7	2.9	13.4	8	8.6	3.53	1.33	0.02	-0.41	2	3	3	3	3
Iron	µg/L-ww	1	586	586	586	586					0				
Lead	µg/L-ww	9	1.6	8.8	5.4	5.2	2.67	0.89	0.03	-1.71	0				
Magnesium	µg/L-ww	3	13,400	25,781	20,831	23,313	6,553	3,783	-1.46		0				
Manganese	µg/L-ww	1	99.8	99.8	99.8	99.8					0				
Mercury (from Driscoll)	ng/L-ww	5	2.6	7.8	4.58	4.1	2.03	0.91	1.18	1.31	0				
Mercury (from PTI)	ng/L-ww	6	2.6	10.8	6.11	5.07	3.81	1.56	0.45	-2.31	0				
Total Mercury	ng/L-ww	11	2.6	10.8	5.41	4.1	3.09	0.93	0.89	-0.65	0				
Methylmercury	ng/L-ww	6	0.09	0.24	0.14	0.12	0.05	0.02	1.16	0.48	0				
Nickel	µg/L-ww	0									9	5	8	7	7
Sodium	µg/L-ww	9	85,000	231,000	121,656	110,000	45,831	15,277	1.97	4.41	0				
Zinc	µg/L-ww	9	23.7	55.5	33.3	31	9.62	3.21	1.70	3.47	0				

Table G1-83. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Volatile Organic Compounds															
Benzene	µg/L-ww	0									7	1	1	1	1
Chlorobenzene	µg/L-ww	0									7	1	1	1	1
Ethylbenzene	µg/L-ww	1	1.7	1.7	1.7	1.7					6	1	1	1	1
Toluene	µg/L-ww	0									7	1	1	1	1
Xylene (Total)	µg/L-ww	0									7	1	3	1.29	1
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									7	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	0									7	1	1	1	1
1,3,5-Trichlorobenzene	µg/L-ww	0									7	1	1	1	1
1,2-Dichlorobenzene	µg/L-ww	0									7	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	0									7	1	1	1	1
1,4-Dichlorobenzene	µg/L-ww	0									7	1	1	1	1
Hexachlorobenzene	µg/L-ww	0									5	0.05	0.5	0.23	0.05

Table G1-84. Summary Statistics for Onondaga Lake Outlet (W12) Water Samples Collected by Honeywell/PTI in 1992 (intermediate flow - 373 to 628 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	9	1.19	2.97	2.36	2.83	0.70	0.23	-0.75	-1.25	0				
Carbon dioxide	mg/L-ww	0									0				
Chloride	mg/L-ww	9	424	499	473	484	23.5	7.84	-1.33	1.41	0				
Conductivity	umho/c	23	1,840	2,140	2,009	2,070	102	21.2	-0.21	-1.64	0				
Discharge instantaneous	cfs	4	194	554	342.5	311	163	81.5	0.78	-1.16	0				
Dissolved oxygen, wt/vol	mg/L-ww	22	4.69	10.1	7.49	7.5	1.10	0.23	-0.36	2.83	0				
pH	pH	23	7.47	8.02	7.74	7.78	0.20	0.04	-0.13	-1.47	0				
Sulfate	mg/L-ww	9	130	205	150	143	22.4	7.47	2.15	5.41	0				
Temperature	degC	23	8.47	20.5	15.5	14.9	4.82	1.00	-0.48	-1.32	0				
Total alkalinity	mg/L-ww	9	162	199	177	177	10.5	3.52	1.00	2.09	0				
Total inorganic carbon	mg/L-ww	9	2.25	50.2	46.2	48	3.39	1.13	-0.66	-1.21	0				
Total organic carbon	mg/L-ww	9	4.73	9.53	7.17	7.31	1.38	0.46	-0.23	0.74	0				
Total suspended solids	mg/L-sus	3	5.5	8	6.83	7	1.26	0.73	-0.59		6	4	4	4	4
Total Metals and Cyanide															
Cadmium	µg/L-ww	0									10	2	2	2	2
Calcium	µg/L-ww	10	101,000	178,000	156,700	162,000	22,416	7,088	-1.92	4.35	0				
Chromium	µg/L-ww	0									10	2	4	3.6	4
Copper	µg/L-ww	0									10	1	5.5	2.85	3
Lead	µg/L-ww	1	1.1	1.1	1.1	1.1					9	1	1.4	1.04	1
Magnesium	µg/L-ww	2	20,792	24,558	22,675	22,675	2,663	1,883			0				
Total Mercury	ng/L-ww	9	2.22	46.2	9.66	6.01	13.8	4.59	2.92	8.66	0				
Methylmercury	ng/L-ww	9	0.18	2.86	1.25	1.60	0.92	0.31	0.28	-0.65	0				
Nickel	µg/L-ww	1	16.7	16.7	16.7	16.7					9	5	8	6.67	7
Sodium	µg/L-ww	10	100,000	231,000	200,300	215,000	39,797	12,585	-2.11	4.70	0				
Zinc	µg/L-ww	8	3.3	13	7	6.5	2.81	0.99	1.38	3.33	2	6.3	6.3	6.3	6.3
Volatile Organic Compounds															
Benzene	µg/L-ww	0									9	1	1	1	1
Chlorobenzene	µg/L-ww	0									9	1	1	1	1
Ethylbenzene	µg/L-ww	0									9	1	1	1	1
Toluene	µg/L-ww	0									9	1	1	1	1

Table G1-84. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Xylene (Total)	µg/L-ww	0									9	1	3	1.44	1
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									9	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	0									9	1	1	1	1
1,3,5-Trichlorobenzene	µg/L-ww	0									9	1	1	1	1
1,2-Dichlorobenzene	µg/L-ww	0									9	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	0									9	1	1	1	1
1,4-Dichlorobenzene	µg/L-ww	0									9	1	1	1	1
Hexachlorobenzene	µg/L-ww	0									7	0.05	0.5	0.11	0.05

Table G1-85. Summary Statistics for Metro Water Samples Collected by Honeywell/PTI & Driscoll in 1992 (intermediate flow - 88 to 155 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	2	19.5	21.6	20.6	20.6	1.48	1.05			0				
Chloride	mg/L-ww	2	158	372	265	265	151	107			0				
Conductivity	umho/c	2	1,286	2,000	1,643	1,643	505	357			0				
Dissolved oxygen, wt/vol	mg/L-ww	2	9.09	9.39	9.24	9.24	0.21	0.15			0				
Sulfate	mg/L-ww	2	158	172	165	165	9.90	7			0				
Temperature	degC	2	12.0	14.6	13.3	13.3	1.82	1.29			0				
Total alkalinity	mg/L-ww	2	253	269	261	261	11.3	8			0				
Total inorganic carbon	mg/L-ww	2	67.2	73.9	70.6	70.6	4.74	3.35			0				
Total organic carbon	mg/L-ww	2	24.8	32	28.4	28.4	5.09	3.6			0				
Total suspended solids	mg/L-sus	2	4	15	9.5	9.5	7.78	5.5			0				
Total Metals and Cyanide			2.25												
Cadmium	µg/L-ww	0									1	2	2	2	2
Calcium	µg/L-ww	1	98,900	98,900	98,900	98,900					0				
Chromium	µg/L-ww	0									1	4	4	4	4
Copper	µg/L-ww	1	4.2	4.2	4.2	4.2					0				
Lead	µg/L-ww	1	4.8	4.8	4.8	4.8					0				
Mercury (from Driscoll)	ng/L-ww	2	5	10	7.5	7.5	3.54	2.5			0				
Mercury (from PTI)	ng/L-ww	2	17.7	23	20.4	20.4	3.74	2.65			0				
Total Mercury	ng/L-ww	4	5	23	13.9	13.9	7.99	4.00	0.04	-2.42	0				
Methylmercury	ng/L-ww	2	0.58	1.41	1.00	1.00	0.59	0.42			0				
Nickel	µg/L-ww	0									1	7	7	7	7
Sodium	µg/L-ww	1	232,000	232,000	232,000	232,000					0				
Zinc	µg/L-ww	1	39.6	39.6	39.6	39.6					0				

Table G1-86. Summary Statistics for Upper Ninemile Creek Water Samples Collected by Honeywell/PTI in 1992 (high flow - greater than 155 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	2	3.4E-02	0.07	0.052	0.052	0.025	0.018			2	0.01	0.3	0.155	0.155
Chloride	mg/L-ww	4	36.4	43.6	38.8	37.6	3.293	1.65	1.74	3.06	0				
Conductivity	umho/c	4	560	764	657	652	89	44.5	0.254	-1.62	0				
Discharge instantaneous	cfs	2	197	222	210	210	17.7	12.5			0				
Dissolved oxygen, wt/vol	mg/L-ww	4	7.18	11.9	9.32	9.12	1.95	0.973	0.576	0.955	0				
pH	pH	2	7.87	8.05	7.96	7.96	0.127	0.09			0				
Sulfate	mg/L-ww	4	108	162	148	160	26.4	13.2	-1.99	3.98	0				
Temperature	degC	4	13.0	19.6	16.9	17	2.88	1.44	-0.950	0.308	0				
Total alkalinity	mg/L-ww	4	182	195	187	186	6.40	3.20	0.501	-3.18	0				
Total inorganic carbon	mg/L-ww	4	35	55	47.4	49.8	9.136	4.57	-1.09	0.070	0				
Total organic carbon	mg/L-ww	4	3.28	40.8	14.4	6.68	17.8	8.91	1.88	3.56	0				
Total suspended solids	mg/L-sus	4	7	88	49.3	51	33.9	17.0	-0.279	0.217	0				
Total Metals and Cyanide															
Cadmium	µg/L-ww	1	19	19	19	19					3	2	2	2	2
Calcium	µg/L-ww	4	76,700	111,000	99,425	105,000	15,605	7,803	-1.67	2.81	0				
Chromium	µg/L-ww	2	3.1	15.9	9.5	9.5	9.05	6.4			2	2	4	3	3
Copper	µg/L-ww	4	1.4	19	8.68	7.15	7.89	3.94	0.823	-0.802	0				
Lead	µg/L-ww	2	1.3	2.3	1.8	1.8	0.707	0.5			2	2	3.9	2.95	2.95
Magnesium	µg/L-ww	2	15,665	20,483	18,074	18,074	3,407	2,409			0				
Total Mercury	ng/L-ww	4	2.29	10.1	6.34	6.51	3.18	1.59	-0.317	1.50	0				
Methylmercury	ng/L-ww	4	0.065	0.208	0.146	0.156	0.063	0.032	-0.681	-0.9897389	0				
Nickel	µg/L-ww	1	14.9	14.9	14.9	14.9					3	5	8	6	5
Sodium	µg/L-ww	4	15,200	22,300	19,750	20,750	3,122	1,561	-1.65	3.09	0				
Zinc	µg/L-ww	2	6.2	35.8	21	21	20.9	14.8			2	19.1	33.9	26.5	26.5
Volatile Organic Compounds															
Benzene	µg/L-ww	0									4	1	1	1	1
Chlorobenzene	µg/L-ww	0									4	1	1	1	1
Ethylbenzene	µg/L-ww	0									4	1	1	1	1
Toluene	µg/L-ww	0									4	1	1	1	1
Xylene (Total)	µg/L-ww	0									4	1	3	1.5	1

Table G1-86. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									4	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	0									4	1	1	1	1
1,3,5-Trichlorobenzene	µg/L-ww	0									4	1	1	1	1
1,2-Dichlorobenzene	µg/L-ww	0									4	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	0									4	1	1	1	1
1,4-Dichlorobenzene	µg/L-ww	0									4	1	1	1	1
Hexachlorobenzene	µg/L-ww	0									4	0.05	0.5	0.163	0.05

Table G1-87. Summary Statistics for Lower Ninemile Creek Water Samples Collected by Honeywell/PTI & Driscoll in 1992 (high flow - greater than 193 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	7	0.118	0.425	0.267	0.222	0.132	0.050	0.213	-2.44	0				
Chloride	mg/L-ww	7	370	612	505	533	106	40.2	-0.340	-2.18	0				
Conductivity	umho/c	5	1,100	2,530	1,870	1,740	644	288	0.066	-2.45	0				
Discharge instantaneous	cfs	2	204	417	311	311	151	107			0				
Dissolved oxygen, wt/vol	mg/L-ww	5	7.08	10.2	8.99	9.2	1.30	0.581	-0.775	-0.532	0				
pH	pH	3	7.67	7.86	7.73	7.67	0.110	0.063	1.73		0				
Sulfate	mg/L-ww	7	117	235	191	194	37.8	14.3	-1.20	2.48	0				
Temperature	degC	5	11.6	19.7	15.8	17	3.90	1.75	-0.346	-3.04009	0				
Total alkalinity	mg/L-ww	7	174	250	202	195	26.5	10.0	1.19	0.620	0				
Total inorganic carbon	mg/L-ww	7	30.6	61.5	46.8	45.6	9.80	3.70	-0.131	0.765	0				
Total organic carbon	mg/L-ww	7	2.98	43.4	10.4	4.9	14.6	5.51	2.61	6.85	0				
Total suspended solids	mg/L-sus	7	10	234	63.9	43	79.7	30.1	2.07	4.57	0				
Total Metals and Cyanide															
Cadmium	µg/L-ww	1	2.1	2.1	2.1	2.1					6	2	2	2	2
Calcium	µg/L-ww	7	183,000	286,000	253,714	277,000	41,560	15,708	-1.116461	-0.39737	0				
Chromium	µg/L-ww	2	3	6.4	4.7	4.7	2.40	1.7			5	2	4	3.2	4
Copper	µg/L-ww	7	1.4	16.3	5.09	4.2	5.24	1.98	2.07	4.72	0				
Lead	µg/L-ww	4	1.1	19.5	7.38	4.45	8.58	4.29	1.41	1.47	3	1	6.3	3.57	3.4
Magnesium	µg/L-ww	4	24,412	32,749	30,553	32,525	4,098	2,049	-1.99	3.95	0				
Mercury (from Driscoll)	ng/L-ww	3	3.1	21.3	13.2	15.2	9.26	5.35	-0.926		0				
Mercury (from PTI)	ng/L-ww	7	10.5	73.4	32.3	14.5	27.6	10.4	0.955	-1.21	0				
Total Mercury	ng/L-ww	10	3.1	73.4	26.6	14.9	24.7	7.82	1.39	0.562	0				
Methylmercury	ng/L-ww	6	0.13	1.44	0.449	0.258	0.503	0.205	2.13	4.72	0				
Nickel	µg/L-ww	1	9.1	9.1	9.1	9.1					6	5	8	6.5	6.5
Sodium	µg/L-ww	7	91,800	159,000	135,400	143,000	26,221	9,910	-0.849	-0.68	0				
Zinc	µg/L-ww	5	5.7	79.9	41.0	30.4	33.0	14.8	0.338	-2.70	2	19.6	22.2	20.9	20.9
Volatile Organic Compounds															
Benzene	µg/L-ww	0									7	1	1	1	1
Chlorobenzene	µg/L-ww	0									7	1	1	1	1
Ethylbenzene	µg/L-ww	0									7	1	1	1	1

Table G1-87. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Toluene	µg/L-ww	0									7	1	1	1	1
Xylene (Total)	µg/L-ww	0									7	1	3	1.29	1
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									7	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	0									7	1	1	1	1
1,3,5-Trichlorobenzene	µg/L-ww	0									7	1	1	1	1
1,2-Dichlorobenzene	µg/L-ww	0									7	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	0									7	1	1	1	1
1,4-Dichlorobenzene	µg/L-ww	0									7	1	1.2	1.03	1
Hexachlorobenzene	µg/L-ww	0									7	0.05	0.5	0.243	0.05

Table G1-88. Summary Statistics for Lower Geddes Brook Water Samples Collected by Honeywell/PTI in 1992 (high flow - greater than 9.8 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	5	0.117	0.575	0.302	0.208	0.207	0.093	0.637	-2.41	0				
Chloride	mg/L-ww	5	183	844	422	340	257	115	1.42	2.12	0				
Conductivity	umho/c	4	1,920	3,660	2,363	1,935	865	433	2.00	4.00	0				
Discharge instantaneous	cfs	1	27	27	27	27					0				
Dissolved oxygen, wt/vol	mg/L-ww	4	7.5	10.67	9.43	9.78	1.44	0.718	-1.02	-0.12019	0				
pH	pH	2	7.51	7.79	7.65	7.65	0.198	0.14			0				
Sulfate	mg/L-ww	5	154	505	305	228	158	70.7	0.570	-2.66	0				
Temperature	degC	4	10.4	16.7	13.4	13.3	3.43	1.71	0.025	-5.84	0				
Total alkalinity	mg/L-ww	5	153	253	193	178	40.6	18.2	0.885	-0.454	0				
Total inorganic carbon	mg/L-ww	5	26.6	51.7	40.5	40.8	9.04	4.04	-0.722	1.98	0				
Total organic carbon	mg/L-ww	5	4.52	8.18	6.24	6.54	1.42	0.635	0.191	-0.605	0				
Total suspended solids	mg/L-sus	5	3	301	116	106	112	49.9	1.42	2.79	0				
Total Metals and Cyanide															
Cadmium	µg/L-ww	0									5	2	2	2	2
Calcium	µg/L-ww	5	140,000	383,000	230,800	177,000	110,051	49,216	0.769	-1.92	0				
Chromium	µg/L-ww	2	2.6	8.7	5.65	5.65	4.31	3.05			3	2	4	2.67	2
Copper	µg/L-ww	5	2.4	19.6	9.38	5.9	7.00	3.13	0.847	-0.74585	0				
Lead	µg/L-ww	3	1.3	22	10	6.7	10.7	6.20	1.25		2	4	10	7	7
Magnesium	µg/L-ww	1	38,502	38,502	38,502	38,502					0				
Total Mercury	ng/L-ww	5	32.7	377	145	85.6	142	63.7	1.44	1.64	0				
Methylmercury	ng/L-ww	5	0.229	1.83	0.987	0.721	0.652	0.291	0.348	-1.73	0				
Nickel	µg/L-ww	1	13.3	13.3	13.3	13.3					4	5	8	5.75	5
Sodium	µg/L-ww	5	75,400	294,000	160,080	130,000	87,083	38,945	1.04	0.363	0				
Zinc	µg/L-ww	3	10.1	105	52.9	43.6	48.1	27.8	0.837		2	29.7	38.4	34.1	34.1
Volatile Organic Compounds															
Benzene	µg/L-ww	0									5	1	1	1	1
Chlorobenzene	µg/L-ww	0									5	1	1	1	1
Ethylbenzene	µg/L-ww	0									5	1	1	1	1
Toluene	µg/L-ww	0									5	1	1	1	1
Xylene (Total)	µg/L-ww	0									5	1	1	1	1

Table G1-88. (cont.)

Analyte	Concen-tration Units	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									5	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	0									5	1	1	1	1
1,3,5-Trichlorobenzene	µg/L-ww	0									5	1	1	1	1
1,2-Dichlorobenzene	µg/L-ww	0									5	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	0									5	1	1	1	1
1,4-Dichlorobenzene	µg/L-ww	0									5	1	1	1	1
Hexachlorobenzene	µg/L-ww	0									5	0.05	0.5	0.14	0.05

Table G1-89. Summary Statistics for East Flume Water Samples Collected by Honeywell/PTI in 1992 (high flow - greater than 3.8 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	6	1.56	4.99	4.06	4.46	1.26	0.513	-2.17	4.97	0				
Chloride	mg/L-ww	6	461	729	613	599	102	41.8	-0.167	-0.62599	0				
Conductivity	umho/c	3	2,370	3,480	3,003	3,160	571	330	-1.14		0				
Discharge instantaneous	cfs	2	1.27	5.7	3.49	3.49	3.13	2.22			0				
Dissolved oxygen, wt/vol	mg/L-ww	3	4.25	7.25	5.67	5.5	1.51	0.870	0.492		0				
pH	pH	2	8.07	8.14	8.11	8.11	0.049	0.035			0				
Sulfate	mg/L-ww	6	305	472	424	436	61.6	25.1	-1.92	4.10	0				
Temperature	degC	3	4.11	34.2	15.5	8.2	16.3	9.42	1.61		0				
Total alkalinity	mg/L-ww	6	173	223	209	214	17.9	7.32	-2.16	5.01	0				
Total inorganic carbon	mg/L-ww	6	47.1	57.2	54.4	55.6	3.73	1.52	-2.06	4.54	0				
Total organic carbon	mg/L-ww	6	7.98	13.6	11.5	11.7	1.90	0.777	-1.51	3.29001	0				
Total suspended solids	mg/L-sus	3	5	13	8	6	4.36	2.52	1.63		3	4	4	4	4
Total Metals and Cyanide															
Cadmium	µg/L-ww	0									6	2	2	2	2
Calcium	µg/L-ww	6	158,000	185,000	169,833	166,000	12,222	4,989	0.499	-2.23	0				
Chromium	µg/L-ww	0									6	4	4	4	4
Copper	µg/L-ww	4	2.4	7.5	4.85	4.75	2.25	1.127	0.188	-2.15995	2	3	3	3	3
Lead	µg/L-ww	5	1.2	3.4	1.78	1.5	0.915	0.409	2.12	4.61	1	1	1	1	1
Magnesium	µg/L-ww	1	28,477	28,477	28,477	28,477					0				
Total Mercury	ng/L-ww	6	31.3	198	155	173	62.6	25.6	-2.08	4.61	0				
Methylmercury	ng/L-ww	6	0.674	1.74	1.32	1.37	0.406	0.166	-0.694	-0.57114	0				
Nickel	µg/L-ww	2	6	6.5	6.25	6.25	0.354	0.25			4	7	8	7.25	7
Sodium	µg/L-ww	6	244,000	490,000	419,167	433,500	90,174	36,813	-1.93	4.20	0				
Zinc	µg/L-ww	6	53.4	130	114	125	29.9	12.2	-2.38	5.74	0				
Volatile Organic Compounds															
Benzene	µg/L-ww	0									6	1	1	1	1
Chlorobenzene	µg/L-ww	0									6	1	1	1	1
Ethylbenzene	µg/L-ww	0									6	1	1	1	1
Toluene	µg/L-ww	0									6	1	1	1	1
Xylene (Total)	µg/L-ww	5	1.6	1.8	1.74	1.8	0.089	0.04	-1.257788	0.3125	1	1	1	1	1

Table G1-89. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									6	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	5	1.9	2.7	2.24	2.2	0.297	0.133	0.885	1.45	1	1	1	1	1
1,3,5-Trichlorobenzene	µg/L-ww	0									6	1	1	1	1
1,2-Dichlorobenzene	µg/L-ww	4	1	5.2	2.45	1.8	1.87	0.936	1.75	3.33	2	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	3	0.9	1.2	1.03	1	0.153	0.088	0.935		3	1	1	1	1
1,4-Dichlorobenzene	µg/L-ww	6	7.8	21	16.8	18	4.91	2.00	-1.50	2.30	0				
Hexachlorobenzene	µg/L-ww	0									6	0.05	0.5	0.275	0.275

Table G1-90. Summary Statistics for Tributary 5A Water Samples Collected by Honeywell/PTI in 1992 (high flow - greater than 7.1 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	10	0.031	0.148	0.085	0.101	0.0430014	0.014	-0.125	-1.74	3	0.01	0.3	0.107	0.01
Chloride	mg/L-ww	13	107	376	241	245	63.1	17.5	-0.137	2.16	0				
Conductivity	umho/c	5	1,110	3,700	2,066	1,390	1,132	506	0.914	-1.32	0				
Discharge instantaneous	cfs	1	3	3	3	3					0				
Dissolved oxygen, wt/vol	mg/L-ww	4	6.41	11	9.16	9.61	2.08	1.041	-0.890	-0.737	0				
pH	pH	1	8.12	8.12	8.12	8.12					0				
Sulfate	mg/L-ww	13	41.8	121	92.7	94.5	26.2	7.25	-0.702	-0.513948	0				
Temperature	degC	5	3.3	18.5	10.9	12.6	6.74	3.02	-0.209	-2.63	0				
Total alkalinity	mg/L-ww	13	97.3	251	153	126	49.1	13.6	0.782	-0.786154	0				
Total inorganic carbon	mg/L-ww	13	15.3	34.6	23.4	23	5.28	1.46	0.645	0.314	0				
Total organic carbon	mg/L-ww	12	5.31	9.49	7.85	8.02	1.53	0.443	-0.432	-1.40	1	1	1	1	1
Total suspended solids	mg/L-sus	13	6	381	193	136	134	37.1	0.074	-1.84	0				
Total Metals and Cyanide															
Cadmium	µg/L-ww	1	3.2	3.2	3.2	3.2					12	2	2	2	2
Calcium	µg/L-ww	13	71,600	147,000	105,269	94,000	25,342	7029	0.325	-1.550172	0				
Chromium	µg/L-ww	13	58.6	560	190	197	141	39.1	1.50	3.03	0				
Copper	µg/L-ww	13	11.6	125	47.7	41.4	31.9	8.84	1.11	1.46	0				
Lead	µg/L-ww	11	5.9	54.9	31.5	37.2	14.3	4.32	-0.153	-0.547668	2	7.3	8.5	7.9	7.9
Magnesium	µg/L-ww	3	12,150	15,220	13,739	13,847	1,538	888	-0.314		0				
Total Mercury	ng/L-ww	9	6.02	307	94.2	48.2	96.4	32.1	1.46	2.24	0				
Methylmercury	ng/L-ww	9	0.174	4.37	1.52	0.960	1.46	0.488	1.03	0.057963	0				
Nickel	µg/L-ww	13	56	327	133	128	69.4	19.2	1.84	4.87	0				
Sodium	µg/L-ww	13	58,700	157,000	121,831	134,000	26,722	7,411	-1.46	1.93	0				
Zinc	µg/L-ww	12	11.8	259	110	116	64.2	18.5	0.882	1.69	1	45.2	45.2	45.2	45.2
Volatile Organic Compounds															
Benzene	µg/L-ww	1	60	60	60	60					12	1	1	1	1
Chlorobenzene	µg/L-ww	0									13	1	2	1.08	1
Ethylbenzene	µg/L-ww	0									13	1	2	1.08	1
Toluene	µg/L-ww	1	5.1	5.1	5.1	5.1					12	1	1	1	1
Xylene (Total)	µg/L-ww	2	1.1	2.4	1.75	1.75	0.919	0.65			11	1	1	1	1

Table G1-90. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									13	1	2	1.08	1
1,2,4-Trichlorobenzene	µg/L-ww	0									13	1	2	1.08	1
1,3,5-Trichlorobenzene	µg/L-ww	0									13	1	2	1.08	1
1,2-Dichlorobenzene	µg/L-ww	0									13	1	2	1.08	1
1,3-Dichlorobenzene	µg/L-ww	0									13	1	2	1.08	1
1,4-Dichlorobenzene	µg/L-ww	0									13	1	2	1.08	1
Hexachlorobenzene	µg/L-ww	0									11	0.05	0.5	0.17	0.05

Table G1-91. Summary Statistics for Harbor Brook Water Samples Collected by Honeywell/PTI in 1992 (high flow - greater than 12.6 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	7	0.08	2	0.615	0.36	0.686	0.259	1.75	2.73	1	0.3	0.3	0.3	0.3
Chloride	mg/L-ww	8	37	306	196	196	77.3	27.3	-1.05	2.77	0				
Conductivity	umho/c	5	930	1,840	1,174	1,030	379	169	2.05	4.32	0				
Discharge instantaneous	cfs	1	15	15	15	15					0				
Dissolved oxygen, wt/vol	mg/L-ww	3	6.25	13.01	9.07	7.96	3.51	2.03	1.28		0				
pH	pH	1	7.92	7.92	7.92	7.92					0				
Sulfate	mg/L-ww	8	43.3	397	247	236	112	39.6	-0.445	0.513	0				
Temperature	degC	5	4.6	20	11.4	7.9	6.97	3.12	0.538	-2.77	0				
Total alkalinity	mg/L-ww	8	85.1	244	186	190	53.9	19.1	-0.891	0.401	0				
Total inorganic carbon	mg/L-ww	8	22.8	65.5	47.5	48.8	13.9	4.91	-0.646	0.160	0				
Total organic carbon	mg/L-ww	7	5.38	9.58	7.97	7.93	1.56	0.589	-0.675	-0.540	1	1	1	1	1
Total suspended solids	mg/L-sus	7	8	226	91.3	80	74.4	28.1	0.933	0.643	1	4	4	4	4
Total Metals and Cyanide															
Cadmium	µg/L-ww	0									8	2	2	2	2
Calcium	µg/L-ww	8	54,200	232,000	144,863	144,500	63,215	22,350	0.036	-0.962	0				
Chromium	µg/L-ww	4	3.5	9.1	7.1	7.9	2.57	1.29	-1.32	1.13	4	2	4	3.5	4
Copper	µg/L-ww	8	2.5	47.9	21.9	18.1	16.3	5.77	0.468	-1.28	0				
Lead	µg/L-ww	6	2.7	63	34.6	36.9	25.6	10.4	-0.201	-1.96	2	5.1	5.3	5.2	5.2
Magnesium	µg/L-ww	3	23,850	39,626	33,229	36,210	8,300	4,792	-1.41		0				
Total Mercury	ng/L-ww	9	2.65	147.333	40.9	23.6	44.4	14.8	1.99	4.54	0				
Methylmercury	ng/L-ww	9	0.33	9.31	2.36	1.17	2.79	0.929	2.33	5.90	0				
Nickel	µg/L-ww	4	7	16.5	10.3	8.9	4.22	2.11	1.71	3.22	4	4	8	5.5	5
Sodium	µg/L-ww	8	21,300	240,000	118,200	111,000	61,881	21,878	0.724	2.36	0				
Zinc	µg/L-ww	8	15.1	188	97.5	110	55.9	19.8	-0.049	-0.240	0				
Volatile Organic Compounds															
Benzene	µg/L-ww	0									9	1	1	1	1
Chlorobenzene	µg/L-ww	0									9	1	1	1	1
Ethylbenzene	µg/L-ww	0									9	1	1	1	1
Toluene	µg/L-ww	1	2.1	2.1	2.1	2.1					8	1	1	1	1
Xylene (Total)	µg/L-ww	1	1.7	1.7	1.7	1.7					8	1	1	1	1

Table G1-91. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									9	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	0									9	1	1	1	1
1,3,5-Trichlorobenzene	µg/L-ww	0									9	1	1	1	1
1,2-Dichlorobenzene	µg/L-ww	1	1	1	1	1					8	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	0									9	1	1	1	1
1,4-Dichlorobenzene	µg/L-ww	2	5.3	7.2	6.25	6.25	1.34	0.95			7	1	1	1	1
Hexachlorobenzene	µg/L-ww	0									9	0.05	0.5	0.2	0.05

Table G1-92. Summary Statistics for Onondaga Creek Water Samples Collected by Honeywell/PTI, OCDDS & Driscoll in 1992 (high flow - greater than 204 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	4	0.093	0.361	0.171	0.115	0.128	0.064	1.94	3.78	1	0.3	0.3	0.3	0.3
Chloride (OCDDS)	mg/L-ww	7	118	226	175	183	38.0	14.3	-0.287	-0.90716	0				
Chloride (PTI)	mg/L-ww	5	372	989	657	645	219	98.2	0.519	2.09	0				
Chloride	mg/L-ww	12	118	989	376	216.5	283	81.6	1.09	0.156	0				
Conductivity	umho/c	1	620	620	620	620					0				
Dissolved oxygen, wt/vol	mg/L-ww	1	8.72	8.72	8.72	8.72					0				
Sulfate	mg/L-ww	5	114	156	140	144	16.2	7.25	-1.34	2.02102	0				
Temperature	degC	1	17.3	17.3	17.3	17.3					0				
Total alkalinity	mg/L-ww	5	135	288	229	242	59.9	26.8	-1.13	1.12	0				
Total inorganic carbon	mg/L-ww	5	33.1	70	58.3	63.9	15.2	6.81	-1.54	2.17	0				
Total organic carbon	mg/L-ww	5	3.12	5.32	4.25	4.59	0.961	0.430	-0.312	-2.57	0				
Total suspended solids	mg/L-sus	4	9	35	18.5	15	11.8	5.91	1.30	1.10	1	4	4	4	4
Total Metals and Cyanide															
Cadmium	µg/L-ww	0									5	2	2	2	2
Calcium	µg/L-ww	5	94,200	121,000	111,440	119,000	12,513	5,596	-0.805	-2.07	0				
Chromium	µg/L-ww	0									5	2	4	3.6	4
Copper	µg/L-ww	3	1.3	9.5	4.8	3.6	4.23	2.44	1.17		2	3	3	3	3
Lead	µg/L-ww	3	1.3	16.4	6.77	2.6	8.37	4.83	1.69		2	1	1	1	1
Magnesium	µg/L-ww	3	20,909	25,500	23,746	24,830	2,480	1,432	-1.59		0				
Mercury (Driscoll)	ng/L-ww	2	2.3	4.3	3.3	3.3	1.41	1			0				
Mercury (PTI)	ng/L-ww	5	0.878	11.7	5.01	4.61	4.07	1.82	1.37	2.59	0				
Total Mercury	ng/L-ww	7	0.878	11.7	4.52	4.3	3.48	1.31	1.72	3.82	0				
Methylmercury	ng/L-ww	4	0.092	0.685	0.262	0.135	0.284	0.142	1.90	3.64	1	0.036	0.036	0.036	0.036
Nickel	µg/L-ww	0									5	4	8	6.2	7
Sodium	µg/L-ww	5	225,000	566,000	381,400	367,000	121,558	54,362	0.570	2.07	0				
Zinc	µg/L-ww	5	3.6	37.8	13.0	7	14.3	6.41	1.92	3.72	0				
Volatile Organic Compounds															
Benzene	µg/L-ww	0									5	1	1	1	1
Chlorobenzene	µg/L-ww	0									5	1	1	1	1
Ethylbenzene	µg/L-ww	0									5	1	1	1	1

Table G1-92. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Toluene	µg/L-ww	0									5	1	1	1	1
Xylene (Total)	µg/L-ww	0									5	1	1	1	1
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									5	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	0									5	1	1	1	1
1,3,5-Trichlorobenzene	µg/L-ww	0									5	1	1	1	1
1,2-Dichlorobenzene	µg/L-ww	0									5	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	0									5	1	1	1	1
1,4-Dichlorobenzene	µg/L-ww	0									5	1	1	1	1
Hexachlorobenzene	µg/L-ww	0									5	0.05	0.5	0.23	0.05

Table G1-93. Summary Statistics for Ley Creek Water Samples Collected by Honeywell/PTI & Driscoll in 1992 (high flow - greater than 54 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	5	0.228	0.683	0.405	0.439	0.188	0.084	0.677	-0.132416	0				
Chloride	mg/L-ww	5	82.2	394	238	213	127	56.8	0.120	-1.711842	0				
Conductivity	umho/c	2	850	1,070	960	960	156	110			0				
Dissolved oxygen, wt/vol	mg/L-ww	2	10.5	11.8	11.1	11.1	0.948	0.67			0				
Sulfate	mg/L-ww	5	51.7	194	118	120	52.1	23.3	0.444	1.04	0				
Temperature	degC	2	1.7	15.6	8.65	8.65	9.83	6.95			0				
Total alkalinity	mg/L-ww	5	98.4	215	170	181	46.4	20.8	-1.04	0.598	0				
Total inorganic carbon	mg/L-ww	5	26.8	57.7	42.7	41.1	12.0	5.38	-0.064	-0.834855	0				
Total organic carbon	mg/L-ww	5	8.05	10.1	9.21	9.5	0.813	0.364	-0.669	-0.71473	0				
Total suspended solids	mg/L-sus	5	12	185	91.6	98	70.1	31.3	0.215	-1.34	0				
Total Metals and Cyanide															
Cadmium	µg/L-ww	0									5	2	2	2	2
Calcium	µg/L-ww	5	60,100	119,000	96,820	105,000	25,374	11,348	-0.811	-1.02	0				
Chromium	µg/L-ww	3	8.2	19.3	12.2	9	6.19	3.57	1.70		2	4	4	4	4
Copper	µg/L-ww	5	6.8	57.7	22.9	18.1	20.0	8.97	1.90	3.93	0				
Lead	µg/L-ww	5	5.7	94.5	30.6	14.1	36.4	16.3	2.04	4.28	0				
Mercury (from Driscoll)	ng/L-ww	2	1.3	1.9	1.6	1.6	0.424	0.3			0				
Mercury (from PTI)	ng/L-ww	4	3.89	41.9	15.8	8.81	17.5	8.77	1.88	3.64	0				
Total Mercury	ng/L-ww	6	1.3	41.9	11.1	5.86	15.5	6.31	2.20	5.04	0				
Methylmercury	ng/L-ww	2	0.104	1.60	0.851	0.851	1.06	0.747			2	0.012	0.036	0.024	0.024
Nickel	µg/L-ww	1	11.1	11.1	11.1	11.1					4	4	5	4.5	4.5
Sodium	µg/L-ww	5	45,500	220,000	131,640	114,000	73,537	32,887	0.193	-2.18	0				
Zinc	µg/L-ww	5	39	182	83.9	68.1	56.4	25.2	1.93	4.06	0				
Volatile Organic Compounds															
Benzene	µg/L-ww	0									4	1	1	1	1
Chlorobenzene	µg/L-ww	0									4	1	1	1	1
Ethylbenzene	µg/L-ww	0									4	1	1	1	1
Toluene	µg/L-ww	0									4	1	1	1	1
Xylene (Total)	µg/L-ww	0									4	1	1	1	1

Table G1-93. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									4	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	0									4	1	1	1	1
1,3,5-Trichlorobenzene	µg/L-ww	0									4	1	1	1	1
1,2-Dichlorobenzene	µg/L-ww	0									4	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	0									4	1	1	1	1
1,4-Dichlorobenzene	µg/L-ww	0									4	1	1	1	1
Hexachlorobenzene	µg/L-ww	0									4	0.05	0.5	0.275	0.275

Table G1-94. Summary Statistics for Onondaga Lake Outlet (W12) Water Samples Collected by Honeywell/PTI in 1992 (high flow - greater than 628 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	17	0.293	2.98	1.93	1.99	0.985	0.239	-0.552	-1.21	0				
Carbon dioxide	mg/L-ww	0									0				
Chloride	mg/L-ww	17	154	501	413	479	129	31.2	-1.46	0.45	0				
Conductivity	umho/c	3	1,760	2,020	1,917	1,970	138	79.7	-1.48		0				
Discharge instantaneous	cfs	0									0				
Dissolved oxygen, wt/vol	mg/L-ww	3	13.7	13.8	13.8	13.8	0.046	0.026	0.935		0				
pH	pH	3	7.98	8.03	8.01	8.01	0.025	0.015	-0.586		0				
Sulfate	mg/L-ww	17	69.8	205	151	154	29.4	7.12	-1.26	3.71	0				
Temperature	degC	3	7.43	8.5	7.81	7.5	0.599	0.346	1.71		0				
Total alkalinity	mg/L-ww	17	125	208	180	178	25.6	6.20	-1.03	0.555	0				
Total inorganic carbon	mg/L-ww	17	33.8	56.4	47.1	48.1	7.01	1.70	-0.542	-0.488	0				
Total organic carbon	mg/L-ww	17	5.43	8.29	6.83	6.56	0.869	0.211	0.428	-0.941	0				
Total suspended solids	mg/L-sus	5	4	10	6.4	6	2.30	1.03	1.03	1.13	12	4	4	4	4
Total Metals and Cyanide															
Cadmium	µg/L-ww	0									17	2	2	2	2
Calcium	µg/L-ww	17	67,900	176,000	143,871	159,000	36,240	8,790	-1.38	0.575	0				
Chromium	µg/L-ww	0									17	2	4	3.06	4
Copper	µg/L-ww	7	1.1	4.9	2.66	2.8	1.33	0.503	0.578	-0.299	10	1	3	2.36	2.3
Lead	µg/L-ww	2	2.5	5.8	4.15	4.15	2.33	1.65			15	1	3.4	1.26	1
Magnesium	µg/L-ww	5	22,438	25,190	24,338	24,830	1,100	492	-1.87	3.67	0				
Total Mercury	ng/L-ww	18	2.39	7.9	4.85	4.62	1.73	0.407	0.255	-0.866	0				
Methylmercury	ng/L-ww	18	0.128	1.99	0.709	0.741	0.479	0.113	1.20	1.89	0				
Nickel	µg/L-ww	3	5.7	7.7	7.03	7.7	1.15	0.667	-1.73		14	4	8	5.5	5
Sodium	µg/L-ww	17	78,200	221,000	184,376	212,000	52,393	12,707	-1.44	0.467	0				
Zinc	µg/L-ww	9	5.9	47.4	18.4	11.3	16.6	5.53	1.47	0.476	8	4.6	15.7	10.4	10.1
Volatile Organic Compounds															
Benzene	µg/L-ww	0									16	1	1	1	1
Chlorobenzene	µg/L-ww	0									16	1	1	1	1
Ethylbenzene	µg/L-ww	0									16	1	1	1	1
Toluene	µg/L-ww	0									16	1	1	1	1
Xylene (Total)	µg/L-ww	0									16	1	1	1	1

Table G1-94. (cont.)

Analyte	Concen-tration Units	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									16	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	0									16	1	1	1	1
1,3,5-Trichlorobenzene	µg/L-ww	0									16	1	1	1	1
1,2-Dichlorobenzene	µg/L-ww	0									16	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	0									16	1	1	1	1
1,4-Dichlorobenzene	µg/L-ww	0									16	1	1	1	1
Hexachlorobenzene	µg/L-ww	0									17	0.05	0.5	0.076	0.05

Table G1-95. Summary Statistics for Metro Water Samples Collected by Honeywell/PTI & Driscoll in 1992 (high flow - greater than 116 cfs)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Ammonia-nitrogen	mg/L-ww	9	7.88	14.7	11.3	12.7	2.86	0.953	-0.165	-2.04	0				
Chloride	mg/L-ww	9	145	752	295	164	227	75.6	1.55	1.06	0				
Conductivity	umho/c	4	900	1,900	1,353	1,305	462	231	0.357	-3.07	0				
Dissolved oxygen, wt/vol	mg/L-ww	3	8.3	10.5	9.15	8.65	1.18	0.683	1.56		0				
Sulfate	mg/L-ww	9	122	205	176	178	25.4	8.47	-1.21	1.67	0				
Temperature	degC	4	3.3	17	12.4	14.7	6.28	3.14	-1.65	2.65	0				
Total alkalinity	mg/L-ww	9	174	343	209	190	52.6	17.5	2.50	6.72	0				
Total inorganic carbon	mg/L-ww	9	49.4	68	55.8	53.1	5.95	1.98	1.08	0.811	0				
Total organic carbon	mg/L-ww	9	15.8	22.4	18.5	17.8	2.38	0.794	0.998	-0.194	0				
Total suspended solids	mg/L-sus	8	4	20	14.3	14	4.80	1.70	-1.40	3.08	1	4	4	4	4
Total Metals and Cyanide															
Cadmium	µg/L-ww	0									9	2	2	2	2
Calcium	µg/L-ww	9	76,400	264,000	127,111	96,700	66,859	22,286	1.66	1.35	0				
Chromium	µg/L-ww	4	2.3	4.3	3.25	3.2	1.05	0.524	0.063	-5.55	5	2	4	2.8	2
Copper	µg/L-ww	9	5.2	12.5	8.61	8.8	2.46	0.821	-0.043	-0.933	0				
Lead	µg/L-ww	5	1.1	2.2	1.68	1.6	0.466	0.208	-0.012	-2.06	4	1.6	2.9	2.23	2.2
Magnesium	µg/L-ww	1	14,280	14,280	14,280	14,280					0				
Mercury (from Driscoll)	ng/L-ww	2	6.8	35.1	21.0	21.0	20.0	14.2			0				
Mercury (from PTI)	ng/L-ww	8	13.4	104	44.1	31.2	34.6	12.2	1.22	-0.15703	0				
Total Mercury	ng/L-ww	10	6.8	104	39.5	29.8	32.7	10.3	1.38	0.795	0				
Methylmercury	ng/L-ww	8	0.908	1.48	1.19	1.20	0.251	0.089	0.003	-2.26	0				
Nickel	µg/L-ww	8	6.6	15.1	9.14	8.55	2.92	1.03	1.28	1.61	1	5	5	5	5
Sodium	µg/L-ww	9	93,800	252,000	141,389	101,000	58,979	19,660	1.05	-0.190	0				
Zinc	µg/L-ww	8	29.2	70.6	42.5	42.2	13.3	4.72	1.39	2.56	1	23.6	23.6	23.6	23.6
Volatile Organic Compounds															
Benzene	µg/L-ww	0									10	1	1	1	1
Chlorobenzene	µg/L-ww	0									10	1	1	1	1
Ethylbenzene	µg/L-ww	0									10	1	1	1	1
Toluene	µg/L-ww	0									10	1	1	1	1
Xylene (Total)	µg/L-ww	0									10	1	1	1	1

Table G1-95. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Semivolatile Organic Compounds															
1,2,3-Trichlorobenzene	µg/L-ww	0									10	1	1	1	1
1,2,4-Trichlorobenzene	µg/L-ww	0									10	1	1	1	1
1,3,5-Trichlorobenzene	µg/L-ww	0									10	1	1	1	1
1,2-Dichlorobenzene	µg/L-ww	0									10	1	1	1	1
1,3-Dichlorobenzene	µg/L-ww	0									10	1	1	1	1
1,4-Dichlorobenzene	µg/L-ww	0									10	1	1	1	1
Hexachlorobenzene	µg/L-ww	0									10	0.05	0.5	0.14	0.05

Table G1-96. Summary Statistics for Bloody Brook Water Samples Collected by Honeywell/PTI in 1992

Analyte	Concen-tration Units	DETECTS N	DETECTS Minimum Detection	DETECTS Maximum Detection	DETECTS Flow Description at Maximum Concentration	NON-DETECTS N	NON-DETECTS Minimum Detection Limit	NON-DETECTS Maximum Detection Limit
Conventional Analytes								
Ammonia-nitrogen	mg/L-ww	2	0.034	0.061	high	0		
Chloride	mg/L-ww	2	197	233	low	0		
Conductivity	umho/c	2	870	1,300	low	0		
Discharge instantaneous	cfs	1	0.69	0.69	low	0		
Dissolved oxygen, wt/vol	mg/L-ww	1	11.2	11.2	low	0		
pH	pH	1	8.02	8.02	low	0		
Sulfate	mg/L-ww	2	44.7	287	low	0		
Temperature	degC	2	2.2	19	low	0		
Total alkalinity	mg/L-ww	2	122	263	low	0		
Total inorganic carbon	mg/L-ww	2	28.4	68.4	low	0		
Total organic carbon	mg/L-ww	2	6.79	8.14	high	0		
Total suspended solids	mg/L-sus	2	5	174	high	0		
Total Metals and Cyanide								
Cadmium	µg/L-ww	1	17.4	17.4	high	1	2	2
Calcium	µg/L-ww	2	74,700	180,000	low	0		
Chromium	µg/L-ww	1	11.7	11.7	high	1	4	4
Copper	µg/L-ww	2	1.9	42.3	high	0		
Lead	µg/L-ww	1	43.8	43.8	high	1	1	1
Total Mercury	ng/L-ww	2	3.59	47.2	high	0		
Methylmercury	ng/L-ww	2	0.047	0.144	high	0		
Nickel	µg/L-ww	1	9.3	9.3	high	1	8	8
Sodium	µg/L-ww	2	108,000	118,000	low	0		
Zinc	µg/L-ww	1	201	201	high	1	10.8	10.8
Volatile Organic Compounds								
Benzene	µg/L-ww	0				2	1	1
Chlorobenzene	µg/L-ww	0				2	1	1
Ethylbenzene	µg/L-ww	0				2	1	1
Toluene	µg/L-ww	0				2	1	1
Xylene (Total)	µg/L-ww	0				2	1	1
Semivolatile Organic Compounds								
1,2,3-Trichlorobenzene	µg/L-ww	0				2	1	1
1,2,4-Trichlorobenzene	µg/L-ww	0				2	1	1
1,3,5-Trichlorobenzene	µg/L-ww	0				2	1	1
1,2-Dichlorobenzene	µg/L-ww	0				2	1	1
1,3-Dichlorobenzene	µg/L-ww	0				2	1	1
1,4-Dichlorobenzene	µg/L-ww	0				2	1	1
Hexachlorobenzene	µg/L-ww	0				2	0.5	0.5

Note: High flow was greater than 28.5 cfs, and base flow was less than or equal to 14.0 cfs.

Table G1-97. Summary Statistics for Sawmill Creek Water Samples Collected by Honeywell/PTI in 1992

		DETECTS				NON-DETECTS		
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Flow Description at Maximum Concentration	N	Minimum Detection Limit	Maximum Detection Limit
Conventional Analytes								
Ammonia-nitrogen	mg/L-ww	1	0.058	0.058	low	1	0.01	0.01
Chloride	mg/L-ww	2	205	343	high	0		
Conductivity	umho/c	2	1,400	1,720	high	0		
Discharge instantaneous	cfs	1	0.45	0.45	low	0		
Dissolved oxygen, wt/vol	mg/L-ww	1	7.6	7.6	low	0		
pH	pH	1	7.91	7.91	low	0		
Sulfate	mg/L-ww	2	101	479	low	0		
Temperature	degC	2	1.1	19.5	low	0		
Total alkalinity	mg/L-ww	2	178	271	low	0		
Total inorganic carbon	mg/L-ww	2	47.5	67.2	low	0		
Total organic carbon	mg/L-ww	2	5.2	7.1	high	0		
Total suspended solids	mg/L-sus	1	12	12	high	1	4	4
Total Metals and Cyanide								
Cadmium	ug/L-ww	0				2	2	2
Calcium	ug/L-ww	2	105,000	233,000	low	0		
Chromium	ug/L-ww	0				2	4	4
Copper	ug/L-ww	1	4.7	4.7	high	1	1	1
Lead	ug/L-ww	1	3.5	3.5	high	1	1	1
Total Mercury	ng/L-ww	2	2.05	9.69	high	0		
Methylmercury	ng/L-ww	2	0.130	0.213	low	0		
Nickel	ug/L-ww	0				2	4	8
Sodium	ug/L-ww	2	103,000	188,000	high	0		
Zinc	ug/L-ww	1	26.7	26.7	high	1	11	11
Volatile Organic Compounds								
Benzene	ug/L-ww	0				2	1	1
Chlorobenzene	ug/L-ww	0				2	1	1
Ethylbenzene	ug/L-ww	0				2	1	1
Toluene	ug/L-ww	0				2	1	1
Xylene (Total)	ug/L-ww	0				2	1	1
Semivolatile Organic Compounds								
1,2,3-Trichlorobenzene	ug/L-ww	0				2	1	1
1,2,4-Trichlorobenzene	ug/L-ww	0				2	1	1
1,3,5-Trichlorobenzene	ug/L-ww	0				2	1	1
1,2-Dichlorobenzene	ug/L-ww	0				2	1	1
1,3-Dichlorobenzene	ug/L-ww	0				2	1	1
1,4-Dichlorobenzene	ug/L-ww	0				2	1	1
Hexachlorobenzene	ug/L-ww	0				2	0.5	0.5

Note: High flow was greater than 15.4 cfs, and base flow was less than or equal to 8.3 cfs.

Table G1-98. Summary Statistics for Upper Geddes Brook Water Samples Collected by Honeywell/Exponent in 1998 (base flow)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Analytes															
Conductivity	mS/cm	6	1.6	2.1	1.9	2.0	0.2	8.6E-02	-1.0	-1.3	0				
Dissolved oxygen	mg/L	6	8.7	10	9.2	9.1	0.5	0.2	0.7	-1.4	0				
Hardness	mg/L	6	704	1,220	932	896	169	69	0.7	2.0	0				
pH	pH	6	7.8	8.0	7.9	7.8	7.7E-02	3.1E-02	0.5	-2.0	0				
Salinity	percent	6	7.0E-02	0.1	8.7E-02	9.0E-02	1.0E-02	4.2E-03	-0.7	0.6	0				
Temperature	°C	6	16	21	18	17	2.0	0.8	1.0	-1.7	0				
Total chloride	mg/L	6	113	226	183	194	45	18	-0.7	-0.9	0				
Total dissolved solids	mg/L	6	1,180	1,760	1,512	1,495	212	86	-0.4	-0.2	0				
Total suspended solids	mg/L	6	3.1	7.0	5.1	5.1	1.8	0.7	0.0	-3.1	0				
Total Metals and Cyanide															
Aluminum	µg/L-dis	0									6	13	33	17	13
Aluminum	µg/L-unfil	3	92	111	99	95	10	5.9	1.5		3	30	78	53	49
Antimony	µg/L-dis	0									6	1.4	1.6	1.4	1.4
Antimony	µg/L-unfil	1	1.5	1.5	1.5	1.5					5	1.4	2	1.5	1.4
Arsenic	µg/L-dis	0									6	2.0	2.0	2.0	2.0
Arsenic	µg/L-unfil	0									6	2.0	2.0	2.0	2.0
Barium	µg/L-dis	6	39	47	44	45	2.9	1.2	-1.0	-0.4	0				
Barium	µg/L-unfil	6	38	52	44	43	4.9	2.0	1.0	1.0	0				
Beryllium	µg/L-dis	0									6	0.2	0.2	0.2	0.2
Beryllium	µg/L-unfil	0									6	0.2	0.2	0.2	0.2
Cadmium	µg/L-dis	0									6	0.4	4.3	2.4	2.4
Cadmium	µg/L-unfil	0									6	0.4	4.3	2.4	2.4
Calcium	µg/L-dis	6	223,000	376,000	310,333	306,000	53,947	22,024	-0.5	0.5	0				
Calcium	µg/L-unfil	6	242,000	358,000	308,833	304,500	40,868	16,684	-0.6	0.7	0				
Chromium	µg/L-dis	0									6	3.2	3.8	3.5	3.5
Chromium	µg/L-unfil	0									6	3.2	3.8	3.5	3.5
Cobalt	µg/L-dis	0									6	2.7	3.2	3.0	3.0
Cobalt	µg/L-unfil	0									6	2.7	3.2	3.0	3.0
Copper	µg/L-dis	2	3.0	3.0	3.0	3.0	0	0			4	1.7	2	1.9	1.9
Copper	µg/L-unfil	2	4.1	4.8	4.5	4.5	0.5	0.4			4	1.7	2	1.8	1.7
Cyanide	µg/L-dis	0									6	10	10	10	10
Cyanide	µg/L-unfil	0									6	10	10	10	10
Iron	µg/L-dis	0									6	3.3	11	7.4	7.8
Iron	µg/L-unfil	6	49	191	129	140	49	20	-0.7	0.8	0				
Lead	µg/L-dis	1	3.0	3.0	3.0	3.0					5	1.1	1.1	1.1	1.1
Lead	µg/L-unfil	0									6	1.1	1.1	1.1	1.1

Table G1-98. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Magnesium	µg/L-dis	6	36,200	53,400	46,317	47,050	6,001	2,450	-0.9	0.9	0				
Magnesium	µg/L-unfil	6	37,900	51,400	45,317	45,000	4,753	1,941	-0.4	0.1	0				
Manganese	µg/L-dis	5	2.9	26	18	22	9.5	4.3	-1.2	0.8	1	3.5	3.5	3.5	3.5
Manganese	µg/L-unfil	6	4.0	30	20	24	11	4.3	-0.9	-1.1	0				
Methylmercury (dissolved)	µg/L-dis	6	1.8E-02	4.0E-02	2.7E-02	2.8E-02	7.6E-03	3.1E-03	0.8	1.1	0				
Nickel	µg/L-dis	0									6	6.6	8.3	7.6	8
Nickel	µg/L-unfil	0									6	6.6	8.3	7.5	7.5
Potassium	µg/L-dis	6	2,330	2,930	2,625	2,630	224	92	0.0	-1.2	0				
Potassium	µg/L-unfil	6	2,130	2,800	2,488	2,475	220	90	-0.4	1.5	0				
Selenium	µg/L-dis	0									6	3.7	3.7	3.7	3.7
Selenium	µg/L-unfil	0									6	3.7	3.7	3.7	3.7
Silver	µg/L-dis	0									6	2.9	3	3.0	3.0
Silver	µg/L-unfil	0									6	2.9	3	3.0	3.0
Sodium	µg/L-dis	6	57,700	128,000	98,500	104,000	26,167	10,683	-0.7	-0.5	0				
Sodium	µg/L-unfil	6	57,700	122,000	94,717	99,750	25,555	10,433	-0.6	-1.3	0				
Thallium	µg/L-dis	0									6	4.7	4.7	4.7	4.7
Thallium	µg/L-unfil	0									6	4.7	4.7	4.7	4.7
Total mercury (dissolved)	µg/L-dis	0									6	0.3	0.5	0.4	0.5
Total mercury (unfiltered)	µg/L-unfil	3	1.8	2.1	2.0	2.0	0.2	8.7E-02	0.2		3	1.5	1.9	1.7	1.7
Vanadium	µg/L-dis	2	3.3	4.2	3.8	3.8	0.6	0.5			4	3.2	3.4	3.3	3.3
Vanadium	µg/L-unfil	1	3.9	3.9	3.9	3.9					5	3.2	3.4	3.3	3.2
Zinc	µg/L-dis	0									6	1.6	6.3	4.7	5.1
Zinc	µg/L-unfil	0									6	4.7	48	18	7.5
Volatile Organic Compounds															
1,1,1-Trichloroethane	µg/L	0									6	10	10	10	10
1,1,2,2-Tetrachloroethane	µg/L	0									6	10	10	10	10
1,1,2-Trichloroethane	µg/L	0									6	10	10	10	10
1,1-Dichloroethane	µg/L	0									6	10	10	10	10
1,1-Dichloroethene	µg/L	0									6	10	10	10	10
1,2-Dichloroethane	µg/L	0									6	10	10	10	10
1,2-Dichloroethene isomers (Total)	µg/L	0									6	10	10	10	10
1,2-Dichloropropane	µg/L	0									6	10	10	10	10
2-Butanone	µg/L	0									6	10	10	10	10
2-Hexanone	µg/L	0									6	10	10	10	10
4-Methyl-2-pentanone	µg/L	0									6	10	10	10	10
Acetone	µg/L	0									6	10	24	14	10
Benzene	µg/L	0									6	10	10	10	10

Table G1-98. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Bromodichloromethane	µg/L	0									6	10	10	10	10
Bromoform	µg/L	0									6	10	10	10	10
Bromomethane	µg/L	0									6	10	10	10	10
Carbon disulfide	µg/L	0									6	10	10	10	10
Carbon tetrachloride	µg/L	0									6	10	10	10	10
Chlorobenzene	µg/L	0									6	10	10	10	10
Chloroethane	µg/L	0									6	10	10	10	10
Chloroform	µg/L	0									6	10	10	10	10
Chloromethane	µg/L	0									6	10	10	10	10
cis -1,3-Dichloropropene	µg/L	0									6	10	10	10	10
Dibromochloromethane	µg/L	0									6	10	10	10	10
Ethylbenzene	µg/L	0									6	10	10	10	10
Methylene chloride	µg/L	0									6	6.3	10	9.4	10
Styrene	µg/L	0									6	10	10	10	10
Tetrachloroethene	µg/L	0									6	10	10	10	10
Toluene	µg/L	0									6	10	10	10	10
trans -1,3-Dichloropropene	µg/L	0									6	10	10	10	10
Trichloroethene	µg/L	0									6	10	10	10	10
Vinyl chloride	µg/L	0									6	10	10	10	10
Xylene isomers (Total)	µg/L	0									6	10	10	10	10
Semivolatile Organic Compounds		0													
1,2,4-Trichlorobenzene	µg/L	0									6	10	12	10	10
1,2-Dichlorobenzene	µg/L	0									6	10	12	10	10
1,3-Dichlorobenzene	µg/L	0									6	10	12	10	10
1,4-Dichlorobenzene	µg/L	0									6	10	12	10	10
2,2'-Oxybis[1-chloropropane]	µg/L	0									6	10	12	10	10
2,4,5-Trichlorophenol	µg/L	0									6	25	29	26	25
2,4,6-Trichlorophenol	µg/L	0									6	10	12	10	10
2,4-Dichlorophenol	µg/L	0									6	10	12	10	10
2,4-Dimethylphenol	µg/L	0									6	10	12	10	10
2,4-Dinitrophenol	µg/L	0									6	25	29	26	25
2,4-Dinitrotoluene	µg/L	0									6	10	12	10	10
2,6-Dinitrotoluene	µg/L	0									6	10	12	10	10
2-Chloronaphthalene	µg/L	0									6	10	12	10	10
2-Chlorophenol	µg/L	0									6	10	12	10	10
2-Methyl-4,6-dinitrophenol	µg/L	0									6	25	29	26	25
2-Methylphenol	µg/L	0									6	10	12	10	10
2-Nitroaniline	µg/L	0									6	25	29	26	25

Table G1-98. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
2-Nitrophenol	µg/L	0									6	10	12	10	10
3,3'-Dichlorobenzidine	µg/L	0									6	10	12	10	10
3-Nitroaniline	µg/L	0									6	25	29	26	25
4-Bromophenyl-phenyl ether	µg/L	0									6	10	12	10	10
4-Chloro-3-methylphenol	µg/L	0									6	10	12	10	10
4-Chloroaniline	µg/L	0									6	10	12	10	10
4-Chlorophenyl-phenyl ether	µg/L	0									6	10	12	10	10
4-Methylphenol	µg/L	0									6	10	12	10	10
4-Nitroaniline	µg/L	0									6	25	29	26	25
4-Nitrophenol	µg/L	0									6	25	29	26	25
bis[2-chloroethoxy]methane	µg/L	0									6	10	12	10	10
bis[2-chloroethyl]ether	µg/L	0									6	10	12	10	10
bis[2-Ethylhexyl]phthalate	µg/L	0									6	3	34	13	10
Butylbenzyl phthalate	µg/L	0									6	10	12	10	10
Carbazole	µg/L	0									6	10	12	10	10
Dibenzofuran	µg/L	0									6	10	12	10	10
Diethyl phthalate	µg/L	0									6	10	12	10	10
Dimethyl phthalate	µg/L	0									6	10	12	10	10
Di-*n*-butyl phthalate	µg/L	0									6	10	12	10	10
Di-*n*-octyl phthalate	µg/L	0									6	10	12	10	10
Hexachlorobenzene (ECD)	µg/L	0									6	10	12	10	10
Hexachlorobenzene (MS)	µg/L	0									6	0.1	0.1	0.1	0.1
Hexachlorobutadiene	µg/L	0									6	10	12	10	10
Hexachlorocyclopentadiene	µg/L	0									6	10	12	10	10
Hexachloroethane	µg/L	0									6	10	12	10	10
Isophorone	µg/L	0									6	10	12	10	10
Nitrobenzene	µg/L	0									6	10	12	10	10
N-nitroso-di-*n*-propylamine	µg/L	0									6	10	12	10	10
N-nitrosodiphenylamine	µg/L	0									6	10	12	10	10
Pentachlorophenol	µg/L	0									6	25	29	26	25
Phenol	µg/L	0									6	10	12	10	10
2-Methylnaphthalene	µg/L	0									6	10	12	10	10
Acenaphthene	µg/L	0									6	10	12	10	10
Acenaphthylene	µg/L	0									6	10	12	10	10
Anthracene	µg/L	0									6	10	12	10	10
Benz(a)anthracene	µg/L	0									6	10	12	10	10
Benzo(a)pyrene	µg/L	0									6	10	12	10	10
Benzo(b)fluoranthene	µg/L	0									6	10	12	10	10
Benzo(ghi)perylene	µg/L	0									6	10	12	10	10
Benzo(k)fluoranthene	µg/L	0									6	10	12	10	10

Table G1-98. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Chrysene	µg/L	0									6	10	12	10	10
Dibenz(a,h)anthracene	µg/L	0									6	10	12	10	10
Fluoranthene	µg/L	0									6	10	12	10	10
Fluorene	µg/L	0									6	10	12	10	10
Indeno(1,2,3-cd)pyrene	µg/L	0									6	10	12	10	10
Naphthalene	µg/L	0									6	10	12	10	10
Phenanthrene	µg/L	0									6	10	12	10	10
Pyrene	µg/L	0									6	10	12	10	10
Pesticides/Polychlorinated Biphenyls		0													
alpha-BHC	µg/L	0									6	5.0E-02	5.0E-02	5.0E-02	5.0E-02
beta-BHC	µg/L	0									6	5.0E-02	5.0E-02	5.0E-02	5.0E-02
delta-BHC	µg/L	0									6	5.0E-02	5.0E-02	5.0E-02	5.0E-02
gamma-BHC	µg/L	0									6	5.0E-02	5.0E-02	5.0E-02	5.0E-02
Aldrin	µg/L	0									6	5.0E-02	5.0E-02	5.0E-02	5.0E-02
alpha-Chlordane	µg/L	0									6	5.0E-02	5.0E-02	5.0E-02	5.0E-02
gamma-Chlordane	µg/L	0									6	5.0E-02	5.0E-02	5.0E-02	5.0E-02
Dieldrin	µg/L	0									6	0.1	0.1	0.1	0.1
alpha-Endosulfan	µg/L	0									6	5.0E-02	5.0E-02	5.0E-02	5.0E-02
beta-Endosulfan	µg/L	0									6	0.1	0.1	0.1	0.1
Endosulfan sulfate	µg/L	0									6	0.1	0.1	0.1	0.1
Endrin	µg/L	0									6	0.1	0.1	0.1	0.1
Endrin aldehyde	µg/L	0									6	0.1	0.1	0.1	0.1
Endrin ketone	µg/L	0									6	0.1	0.1	0.1	0.1
Heptachlor	µg/L	0									6	5.0E-02	5.0E-02	5.0E-02	5.0E-02
Heptachlor epoxide	µg/L	0									6	5.0E-02	5.0E-02	5.0E-02	5.0E-02
Methoxychlor	µg/L	0									6	0.5	0.5	0.5	0.5
4,4'-DDD	µg/L	0									6	0.1	0.1	0.1	0.1
4,4'-DDE	µg/L	0									6	0.1	0.1	0.1	0.1
4,4'-DDT	µg/L	0									6	0.1	0.1	0.1	0.1
Toxaphene	µg/L	0									6	5.0	5.0	5.0	5.0
Aroclor 1016	µg/L	0									6	1.0	1.0	1.0	1.0
Aroclor 1221	µg/L	0									6	2.0	2.0	2.0	2.0
Aroclor 1232	µg/L	0									6	1.0	1.0	1.0	1.0
Aroclor 1242	µg/L	0									6	1.0	1.0	1.0	1.0
Aroclor 1248	µg/L	0									6	1.0	1.0	1.0	1.0
Aroclor 1254	µg/L	0									6	1.0	1.0	1.0	1.0
Aroclor 1260	µg/L	0									6	1.0	1.0	1.0	1.0
Aroclor 1268	µg/L	0									6	1.0	1.0	1.0	1.0

Table G1-98. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Dioxins/Furans		0													
2,3,7,8-TCDD	pg/L	0									6	1.4	5.7	3.2	2.9
1,2,3,7,8-PeCDD	pg/L	1	2.6	2.6	2.6	2.6					5	1.3	3.2	1.9	1.3
1,2,3,4,6,7,8-HpCDD	pg/L	0									6	0.6	5.3	3.2	3
1,2,3,6,7,8-HxCDD	pg/L	1	5.1	5.1	5.1	5.1					5	1.2	1.8	1.5	1.4
1,2,3,7,8,9-HxCDD	pg/L	0									6	1.3	4.1	2.0	1.6
1,2,3,4,7,8-HxCDD	pg/L	1	3.0	3.0	3.0	3.0					5	1.2	1.8	1.4	1.4
OCDD	pg/L	0									6	2.1	74	20	11
2,3,7,8-TCDF	pg/L	0									6	1.2	4.1	2.6	2.7
1,2,3,7,8-PeCDF	pg/L	0									6	0.6	4.9	2.2	2
2,3,4,7,8-PeCDF	pg/L	0									6	1.0	8.1	2.9	2.1
1,2,3,6,7,8-HxCDF	pg/L	0									6	0.3	2.7	1.2	1.1
2,3,4,6,7,8-HxCDF	pg/L	0									6	0.3	4.1	1.4	0.9
1,2,3,7,8,9-HxCDF	pg/L	0									6	0.4	5.6	1.8	1.1
1,2,3,4,7,8-HxCDF	pg/L	0									6	0.3	2.2	1.2	1.2
1,2,3,4,6,7,8-HpCDF	pg/L	0									6	0.4	5.8	1.9	1.0
1,2,3,4,7,8,9-HpCDF	pg/L	0									6	0.5	7.2	2.0	1.2
OCDF	pg/L	0									6	1.2	17	5.8	2.7

Table G1-99. Summary Statistics for Lower Geddes Brook Water Samples Collected by Honeywell/Exponent in 1998 (base flow)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Parameters															
Conductivity	mS/cm	3	3.0	3.1	3.0	3.0	8.7E-02	5.0E-02	1.7		0				
Dissolved oxygen, wt/vol	mg/L	3	8.5	9.4	8.8	8.5	0.5	0.3	1.7		0				
Hardness	mg/L	3	1,020	1,420	1,183	1,110	210	121	1.4		0				
pH	pH	3	7.6	7.9	7.8	7.9	0.2	9.0E-02	-1.7		0				
Salinity	percent	3	0.1	0.2	0.1	0.1	5.8E-03	0	1.7		0				
Temperature	°C	3	15	17	16	17	1.2	0.7	-1.7		0				
Total chloride	mg/L	3	490	675	552	490	107	62	1.7		0				
Total dissolved solids	mg/L	3	2,340	2,770	2,500	2,390	235	136	1.6		0				
Total suspended solids	mg/L	3	3.0	5.7	4.1	3.7	1.4	0.8	1.2		0				
Total Metals and Cyanide															
Aluminum (dissolved)	µg/L-dis	0									3	13	27	18	13
Aluminum (unfiltered)	µg/L-unfil	0									3	37	44	40	40
Antimony (dissolved)	µg/L-dis	1	2.1	2.1	2.1	2.1					2	1.4	1.4	1.4	1.4
Antimony (unfiltered)	µg/L-unfil	1	2.1	2.1	2.1	2.1					2	1.4	1.4	1.4	1.4
Arsenic (dissolved)	µg/L-dis	0									3	2.0	2.0	2.0	2.0
Arsenic (unfiltered)	µg/L-unfil	0									3	2.0	2.0	2.0	2.0
Barium (dissolved)	µg/L-dis	3	44	48	46	47	2.1	1.2	-1.2		0				
Barium (unfiltered)	µg/L-unfil	3	45	48	47	48	1.8	1.0	-1.5		0				
Beryllium (dissolved)	µg/L-dis	0									3	0.2	0.3	0.2	0.2
Beryllium (unfiltered)	µg/L-unfil	0									3	0.2	0.2	0.2	0.2
Cadmium (dissolved)	µg/L-dis	0									3	0.4	4.3	3.0	4.3
Cadmium (unfiltered)	µg/L-unfil	0									3	0.4	4.3	3.0	4.3
Calcium (dissolved)	µg/L-dis	3	379,000	464,000	408,000	381,000	48,508	28,006	1.7		0				
Calcium (unfiltered)	µg/L-unfil	3	385,000	455,000	412,000	396,000	37,643	21,733	1.6		0				
Chromium (dissolved)	µg/L-dis	0									3	3.2	3.8	3.4	3.2
Chromium (unfiltered)	µg/L-unfil	0									3	3.2	3.8	3.4	3.2
Cobalt (dissolved)	µg/L-dis	0									3	2.7	3.2	3.0	3.2
Cobalt (unfiltered)	µg/L-unfil	0									3	2.7	3.2	3.0	3.2
Copper (dissolved)	µg/L-dis	1	3.0	3.0	3.0	3.0					2	1.7	2.0	1.9	1.9
Copper (unfiltered)	µg/L-unfil	0									3	1.7	2.0	1.9	2.0
Cyanide (dissolved)	µg/L-dis	0									3	10	10	10	10
Cyanide (unfiltered)	µg/L-unfil	0									3	10	10	10	10
Iron (dissolved)	µg/L-dis	1	14	14	14	14					2	4.7	11	7.8	7.8
Iron (unfiltered)	µg/L-unfil	3	350	435	383	365	45	26	1.5		0				
Lead (dissolved)	µg/L-dis	1	1.2	1.2	1.2	1.2			-1.7		2	1.1	1.1	1.1	1.1
Lead (unfiltered)	µg/L-unfil	1	1.8	1.8	1.8	1.8					2	1.1	1.1	1.1	1.1
Magnesium (dissolved)	µg/L-dis	3	45,700	52,700	48,067	45,800	4,013	2,317	1.7		0				
Magnesium (unfiltered)	µg/L-unfil	3	45,700	53,300	48,433	46,300	4,225	2,439	1.7		0				
Manganese (dissolved)	µg/L-dis	3	75	82	78	78	3.6	2.1	0.4		0				

Table G1-99. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Manganese (unfiltered)	µg/L-unfil	3	84	89	86	86	2.7	1.6	0.5		0				
Methylmercury (dissolved)	µg/L-dis	3	0	6.1E-02	3.7E-02	4.7E-02	3.0E-02	1.7E-02	-1.3		0				
Nickel (dissolved)	µg/L-dis	0									3	6.6	8.3	7.7	8.3
Nickel (unfiltered)	µg/L-unfil	0									3	6.6	8.3	7.7	8.3
Potassium (dissolved)	µg/L-dis	3	5,210	6,710	5,763	5,370	824	476	1.7		0				
Potassium (unfiltered)	µg/L-unfil	3	4,990	7,010	5,793	5,380	1,072	619	1.5		0				
Selenium (dissolved)	µg/L-dis	0									3	3.7	3.7	3.7	3.7
Selenium (unfiltered)	µg/L-unfil	0									3	3.7	3.7	3.7	3.7
Silver (dissolved)	µg/L-dis	0									3	2.9	3.0	3.0	3.0
Silver (unfiltered)	µg/L-unfil	0									3	2.9	3.0	3.0	3.0
Sodium (dissolved)	µg/L-dis	3	212,000	266,000	230,667	214,000	30,616	17,676	1.7		0				
Sodium (unfiltered)	µg/L-unfil	3	210,000	280,000	233,667	211,000	40,129	23,168	1.7		0				
Thallium (dissolved)	µg/L-dis	0									3	4.7	4.7	4.7	4.7
Thallium (unfiltered)	µg/L-unfil	1	12	12	12	12	8.0	8.0	-1.7		2	4.7	4.7	4.7	4.7
Total mercury (dissolved)	µg/L-dis	2	1.3	1.4	1.4	1.4	0.4	0.3	1.6		1	0.6	0.6	0.6	0.6
Total mercury (unfiltered)	µg/L-unfil	3	16	27	22	24	11	6.2	-0.2		0				
Vanadium (dissolved)	µg/L-dis	2	3.8	4.7	4.3	4.3	0.6	0.5			1	3.4	3.4	3.4	3.4
Vanadium (unfiltered)	µg/L-unfil	0									3	3.2	3.4	3.3	3.4
Zinc (dissolved)	µg/L-dis	0									3	2.1	5.1	4.1	5.1
Zinc (unfiltered)	µg/L-unfil	0									3	5.2	11	9.0	11
Volatile Organic Compounds															
1,1,1-Trichloroethane	µg/L	0									3	10	10	10	10
1,1,2,2-Tetrachloroethane	µg/L	0									3	10	10	10	10
1,1,2-Trichloroethane	µg/L	0									3	10	10	10	10
1,1-Dichloroethane	µg/L	0									3	10	10	10	10
1,1-Dichloroethene	µg/L	0									3	10	10	10	10
1,2-Dichloroethane	µg/L	0									3	10	10	10	10
1,2-Dichloroethene isomers (Total)	µg/L	0									3	10	10	10	10
1,2-Dichloropropane	µg/L	0									3	10	10	10	10
2-Butanone	µg/L	0									3	10	10	10	10
2-Hexanone	µg/L	0									3	10	10	10	10
4-Methyl-2-pentanone	µg/L	0									3	10	10	10	10
Acetone	µg/L	0									3	10	21	14	10
Benzene	µg/L	0									3	10	10	10	10
Bromodichloromethane	µg/L	0									3	10	10	10	10
Bromoform	µg/L	0									3	10	10	10	10
Bromomethane	µg/L	0									3	10	10	10	10
Carbon disulfide	µg/L	0									3	10	10	10	10
Carbon tetrachloride	µg/L	0									3	10	10	10	10
Chlorobenzene	µg/L	0									3	10	10	10	10

Table G1-99. (cont.)

Analyte	Concen-tration Units	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Chloroethane	µg/L	0									3	10	10	10	10
Chloroform	µg/L	0									3	10	10	10	10
Chloromethane	µg/L	0									3	10	10	10	10
cis-1,3-Dichloropropene	µg/L	0									3	10	10	10	10
Dibromochloromethane	µg/L	0									3	10	10	10	10
Ethylbenzene	µg/L	0									3	10	10	10	10
Methylene chloride	µg/L	0									3	6.2	10	9	10
Styrene	µg/L	0									3	10	10	10	10
Tetrachloroethene	µg/L	0									3	10	10	10	10
Toluene	µg/L	0									3	10	10	10	10
trans-1,3-Dichloropropene	µg/L	0									3	10	10	10	10
Trichloroethene	µg/L	0									3	10	10	10	10
Vinyl chloride	µg/L	0									3	10	10	10	10
Xylene isomers (Total)	µg/L	0									3	10	10	10	10
Semivolatile Organic Compounds															
1,2,4-Trichlorobenzene	µg/L	0									3	10	10	10	10
1,2-Dichlorobenzene	µg/L	0									3	10	10	10	10
1,3-Dichlorobenzene	µg/L	0									3	10	10	10	10
1,4-Dichlorobenzene	µg/L	0									3	10	10	10	10
2,2'-Oxybis[1-chloropropane]	µg/L	0									3	10	10	10	10
2,4,5-Trichlorophenol	µg/L	0									3	25	25	25	25
2,4,6-Trichlorophenol	µg/L	0									3	10	10	10	10
2,4-Dichlorophenol	µg/L	0									3	10	10	10	10
2,4-Dimethylphenol	µg/L	0									3	10	10	10	10
2,4-Dinitrophenol	µg/L	0									3	25	25	25	25
2,4-Dinitrotoluene	µg/L	0									3	10	10	10	10
2,6-Dinitrotoluene	µg/L	0									3	10	10	10	10
2-Chloronaphthalene	µg/L	0									3	10	10	10	10
2-Chlorophenol	µg/L	0									3	10	10	10	10
2-Methyl-4,6-dinitrophenol	µg/L	0									3	25	25	25	25
2-Methylphenol	µg/L	0									3	10	10	10	10
2-Nitroaniline	µg/L	0									3	25	25	25	25
2-Nitrophenol	µg/L	0									3	10	10	10	10
3,3'-Dichlorobenzidine	µg/L	0									3	10	10	10	10
3-Nitroaniline	µg/L	0									3	25	25	25	25
4-Bromophenyl-phenyl ether	µg/L	0									3	10	10	10	10
4-Chloro-3-methylphenol	µg/L	0									3	10	10	10	10
4-Chloroaniline	µg/L	0									3	10	10	10	10
4-Chlorophenyl-phenyl ether	µg/L	0									3	10	10	10	10
4-Methylphenol	µg/L	0									3	10	10	10	10

Table G1-99. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
4-Nitroaniline	µg/L	0									3	25	25	25	25
4-Nitrophenol	µg/L	0									3	25	25	25	25
bis[2-chloroethoxy]methane	µg/L	0									3	10	10	10	10
bis[2-chloroethyl]ether	µg/L	0									3	10	10	10	10
bis[2-Ethylhexyl]phthalate	µg/L	0									3	10	10	10	10
Butylbenzyl phthalate	µg/L	0									3	10	10	10	10
Carbazole	µg/L	0									3	10	10	10	10
Dibenzofuran	µg/L	0									3	10	10	10	10
Diethyl phthalate	µg/L	0									3	10	10	10	10
Dimethyl phthalate	µg/L	0									3	10	10	10	10
Di-n-butyl phthalate	µg/L	0									3	10	10	10	10
Di-n-octyl phthalate	µg/L	0									3	10	10	10	10
Hexachlorobenzene (ECD)	µg/L	0									3	10	10	10	10
Hexachlorobenzene (MS)	µg/L	0									3	0	0	0	0
Hexachlorobutadiene	µg/L	0									3	10	10	10	10
Hexachlorocyclopentadiene	µg/L	0									3	10	10	10	10
Hexachloroethane	µg/L	0									3	10	10	10	10
Isophorone	µg/L	0									3	10	10	10	10
Nitrobenzene	µg/L	0									3	10	10	10	10
N-nitroso-di-n-propylamine	µg/L	0									3	10	10	10	10
N-nitrosodiphenylamine	µg/L	0									3	10	10	10	10
Pentachlorophenol	µg/L	0									3	25	25	25	25
Phenol	µg/L	0									3	10	10	10	10
Naphthalene	µg/L	0									3	10	10	10	10
Acenaphthene	µg/L	0									3	10	10	10	10
Acenaphthylene	µg/L	0									3	10	10	10	10
Fluorene	µg/L	0									3	10	10	10	10
Phenanthrene	µg/L	0									3	10	10	10	10
Anthracene	µg/L	0									3	10	10	10	10
2-Methylnaphthalene	µg/L	0									3	10	10	10	10
Fluoranthene	µg/L	0									3	10	10	10	10
Pyrene	µg/L	0									3	10	10	10	10
Benz(a)anthracene	µg/L	0									3	10	10	10	10
Chrysene	µg/L	0									3	10	10	10	10
Benzo(b)fluoranthene	µg/L	0									3	10	10	10	10
Benzo(k)fluoranthene	µg/L	0									3	10	10	10	10
Benzo(a)pyrene	µg/L	0									3	10	10	10	10
Indeno(1,2,3-cd)pyrene	µg/L	0									3	10	10	10	10
Dibenz(a,h)anthracene	µg/L	0									3	10	10	10	10
Benzo(ghi)perylene	µg/L	0									3	10	10	10	10

Table G1-99. (cont.)

Analyte	Concen-tration Units	DETECTS N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	NON-DETECTS N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Pesticides and Polychlorinated Biphenyls															
4,4'-DDD	µg/L	0									3	0.1	0.1	0.1	0.1
4,4'-DDE	µg/L	0									3	0.1	0.1	0.1	0.1
4,4'-DDT	µg/L	0									3	0.1	0.1	0.1	0.1
Aldrin	µg/L	0									3	5.0E-02	5.0E-02	5.0E-02	5.0E-02
alpha-BHC	µg/L	0									3	5.0E-02	5.0E-02	5.0E-02	5.0E-02
alpha-Chlordane	µg/L	0									3	5.0E-02	5.0E-02	5.0E-02	5.0E-02
alpha-Endosulfan	µg/L	0									3	5.0E-02	5.0E-02	5.0E-02	5.0E-02
beta-BHC	µg/L	0									3	5.0E-02	5.0E-02	5.0E-02	5.0E-02
beta-Endosulfan	µg/L	0									3	0.1	0.1	0.1	0.1
delta-BHC	µg/L	0									3	5.0E-02	5.0E-02	5.0E-02	5.0E-02
Dieldrin	µg/L	0									3	0.1	0.1	0.1	0.1
Endosulfan sulfate	µg/L	0									3	0.1	0.1	0.1	0.1
Endrin	µg/L	0									3	0.1	0.1	0.1	0.1
Endrin aldehyde	µg/L	0									3	0.1	0.1	0.1	0.1
Endrin ketone	µg/L	0									3	0.1	0.1	0.1	0.1
gamma-BHC	µg/L	0									3	5.0E-02	5.0E-02	5.0E-02	5.0E-02
gamma-Chlordane	µg/L	0									3	5.0E-02	5.0E-02	5.0E-02	5.0E-02
Heptachlor	µg/L	0									3	5.0E-02	5.0E-02	5.0E-02	5.0E-02
Heptachlor epoxide	µg/L	0									3	5.0E-02	5.0E-02	5.0E-02	5.0E-02
Methoxychlor	µg/L	0									3	0.5	0.5	0.5	0.5
Toxaphene	µg/L	0									3	5.0	5.0	5.0	5.0
Aroclor 1016	µg/L	0									3	1.0	1.0	1.0	1.0
Aroclor 1221	µg/L	0									3	2.0	2.0	2.0	2.0
Aroclor 1232	µg/L	0									3	1.0	1.0	1.0	1.0
Aroclor 1242	µg/L	0									3	1.0	1.0	1.0	1.0
Aroclor 1248	µg/L	0									3	1.0	1.0	1.0	1.0
Aroclor 1254	µg/L	0									3	1.0	1.0	1.0	1.0
Aroclor 1260	µg/L	0									3	1.0	1.0	1.0	1.0
Aroclor 1268	µg/L	0									3	1.0	1.0	1.0	1.0
Dioxins/Furans															
2,3,7,8-TCDD	pg/L	0									3	2.2	5.3	3.5	2.9
1,2,3,7,8-PeCDD	pg/L	0									3	1.0	6.0	2.7	1.2
1,2,3,4,6,7,8-HpCDD	pg/L	0									3	0.4	4.5	1.9	0.8
1,2,3,6,7,8-HxCDD	pg/L	0									3	1.5	5.3	2.8	1.6
1,2,3,7,8,9-HxCDD	pg/L	0									3	1.6	5.0	2.8	1.7
1,2,3,4,7,8-HxCDD	pg/L	0									3	1.5	4.8	2.6	1.6
OCDD	pg/L	0									3	3.2	31	16	15
2,3,7,8-TCDF	pg/L	0									3	1.7	4.7	2.9	2.3
1,2,3,7,8-PeCDF	pg/L	0									3	1.7	3.6	2.3	1.7

Table G1-99. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
2,3,4,7,8-PeCDF	pg/L	0									3	1.7	3.9	2.4	1.7
1,2,3,6,7,8-HxCDF	pg/L	0									3	0.4	2.2	1.2	0.9
2,3,4,6,7,8-HxCDF	pg/L	0									3	0.5	2.5	1.3	1.0
1,2,3,7,8,9-HxCDF	pg/L	0									3	0.6	2.9	1.6	1.3
1,2,3,4,7,8-HxCDF	pg/L	0									3	0.5	2.3	1.3	1.0
1,2,3,4,6,7,8-HpCDF	pg/L	0									3	0.2	0.9	0.5	0.4
1,2,3,4,7,8,9-HpCDF	pg/L	0									3	0.4	1.2	0.7	0.6
OCDF	pg/L	0									3	1.9	2.4	2.1	2.0

Table G1-100. Summary Statistics for Upper Ninemile Creek Water Samples Collected by Honeywell/Exponent in 1998 (base flow)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Conventional Parameters															
Conductivity	mS/cm	8	1.1	3.2	1.7	1.4	2.2	0.8	1.0	-0.8	0				
Dissolved oxygen, wt/vol	mg/L	8	7.6	10	8.9	9.1	1.1	0.4	-4.4E-02	-1.7	0				
Hardness	mg/L	8	456	1,300	754	618	320	113	0.8	-0.9	0				
pH	pH	8	7.5	8.1	7.8	7.8	0.2	5.8E-02	-7.1E-01	2.8	0				
Salinity	percent	8	4.0E-02	0.2	7.6E-02	6.0E-02	4.6E-02	1.6E-02	0.9	-0.8	0				
Temperature	°C	8	16	23	19	19	2.8	1.0	-1.7E-02	-2.0	0				
Total chloride	mg/L	8	50	881	297	171	322	114	1.1	-0.1	0				
Total dissolved solids	mg/L	8	720	3,340	1,541	1,120	1,020	361	1.1	-0.3	0				
Total suspended solids	mg/L	8	6.0	18	12	13	4.2	1.5	-0.2	-0.9	0				
Total Metals and Cyanide															
Aluminum (dissolved)	µg/L-dis	7	172	401	283	263	98	37	0.1	-2.3	1	63	63	63	63
Aluminum (unfiltered)	µg/L-unfil	0									8	13	27	15	13
Antimony (dissolved)	µg/L-dis	3	1.7	3.1	2.3	2.1	0.7	0.4	1.2		5	1.4	1.5	1.4	1.4
Antimony (unfiltered)	µg/L-unfil	2	1.7	3.7	2.7	2.7	1.4	1.0			6	1.4	1.5	1.4	1.4
Arsenic (dissolved)	µg/L-dis	0									8	2.0	2.0	2.0	2.0
Arsenic (unfiltered)	µg/L-unfil	0									8	2.0	2.0	2.0	2.0
Barium (dissolved)	µg/L-dis	8	66	109	86	85	18	6.3	0.1	-2.3	0				
Barium (unfiltered)	µg/L-unfil	8	66	111	87	87	18	6.4	9.2E-02	-2.2	0				
Beryllium (dissolved)	µg/L-dis	0									8	0.2	0.2	0.2	0.2
Beryllium (unfiltered)	µg/L-unfil	0									8	0.2	0.2	0.2	0.2
Cadmium (dissolved)	µg/L-dis	0									8	0.4	4.3	2.4	2.4
Cadmium (unfiltered)	µg/L-unfil	0									8	0.4	4.3	2.4	2.4
Calcium (dissolved)	µg/L-dis	8	148,000	465,000	249,875	205,000	109,319	38,650	1.3	1.0	0				
Calcium (unfiltered)	µg/L-unfil	8	156,000	441,000	244,250	199,500	103,370	36,547	1.2	0.5	0				
Chromium (dissolved)	µg/L-dis	0									8	3.2	3.8	3.5	3.5
Chromium (unfiltered)	µg/L-unfil	0									8	3.2	3.8	3.5	3.5
Cobalt (dissolved)	µg/L-dis	0									8	2.7	3.2	3.0	3.0
Cobalt (unfiltered)	µg/L-unfil	0									8	2.7	3.2	3.0	3.0
Copper (dissolved)	µg/L-dis	3	2.0	3.6	2.9	3.2	0.8	0.5	-1.3		5	1.7	2.0	1.8	1.7
Copper (unfiltered)	µg/L-unfil	3	4.1	5.7	4.7	4.4	0.9	0.5	1.5		5	1.7	2.0	1.8	1.7
Cyanide (dissolved)	µg/L-dis	0									8	10	10	10	10
Cyanide (unfiltered)	µg/L-unfil	0									8	10	10	10	10
Iron (dissolved)	µg/L-dis	2	20	28	24	24	5.9	4.1			6	3.3	14.0	10.1	10.9
Iron (unfiltered)	µg/L-unfil	8	413	806	562	505	148	52	0.7	-1.2	0				
Lead (dissolved)	µg/L-dis	1	6.0	6.0	6.0	6.0	3.5	3.5			7	1.1	1.1	1.1	1.1
Lead (unfiltered)	µg/L-unfil	4	1.3	1.8	1.6	1.6	0.2	0.1	0	0.4	4	1.1	1.1	1.1	1.1
Magnesium (dissolved)	µg/L-dis	8	25,700	50,200	34,100	31,400	8,059	2,849	1.2	1.3	0				
Magnesium (unfiltered)	µg/L-unfil	8	26,400	48,500	33,938	30,500	7,812	2,762	1.0	0.0	0				
Manganese (dissolved)	µg/L-dis	8	15	86	37	28	26	9.2	1.1	0.3	0				
Manganese (unfiltered)	µg/L-unfil	8	38	110	60	52	23	8.2	1.7	3.2	0				

Table G1-100. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Methylmercury (dissolved)	µg/L-dis	6	3.1E-02	4.6E-02	3.9E-02	3.9E-02	5.4E-03	2.2E-03	-8.4E-02	-0.7	2	6.0E-03	1.1E-02	8.5E-03	8.5E-03
Nickel (dissolved)	µg/L-dis	0									8	6.6	8.3	7.5	7.5
Nickel (unfiltered)	µg/L-unfil	0									8	6.6	8.3	7.8	8.2
Potassium (dissolved)	µg/L-dis	8	1,330	8,950	3,918	2,930	2,755	974	1.1	0.0	0				
Potassium (unfiltered)	µg/L-unfil	8	1,190	8,170	3,711	2,825	2,581	912	0.9	-0.6	0				
Selenium (dissolved)	µg/L-dis	0									8	3.7	3.7	3.7	3.7
Selenium (unfiltered)	µg/L-unfil	0									8	3.7	3.7	3.7	3.7
Silver (dissolved)	µg/L-dis	0									8	2.9	3.0	3.0	3.0
Silver (unfiltered)	µg/L-unfil	0									8	2.9	3.0	3.0	3.0
Sodium (dissolved)	µg/L-dis	8	25,700	235,000	89,463	56,650	81,461	28,801	1.1	-0.2	0				
Sodium (unfiltered)	µg/L-unfil	8	25,200	225,000	87,313	54,450	79,279	28,029	1.0	-0.4	0				
Thallium (dissolved)	µg/L-dis	0									8	4.7	4.7	4.7	4.7
Thallium (unfiltered)	µg/L-unfil	0									8	4.7	4.7	4.7	4.7
Total mercury (dissolved)	µg/L-dis	0									8	0.2	1.2	0.4	0.4
Total mercury (unfiltered)	µg/L-unfil	6	1.3	6.4	3.9	4.4	1.8	0.7	-0.3	-0.5	2	2.5	3.0	2.7	2.7
Vanadium (dissolved)	µg/L-dis	1	4.7	4.7	4.7	4.7	2.6	2.6			7	3.2	3.4	3.3	3.4
Vanadium (unfiltered)	µg/L-unfil	1	3.4	3.4	3.4	3.4	1.7	1.7			7	3.2	3.4	3.3	3.4
Zinc (dissolved)	µg/L-dis	0									8	1.4	11.6	5.4	5.0
Zinc (unfiltered)	µg/L-unfil	0									8	2.3	64.3	17.3	5.0
Volatile Organic Compounds															
1,1,1-Trichloroethane	µg/L	0									8	10	10	10	10
1,1,2,2-Tetrachloroethane	µg/L	0									8	10	10	10	10
1,1,2-Trichloroethane	µg/L	0									8	10	10	10	10
1,1-Dichloroethane	µg/L	0									8	10	10	10	10
1,1-Dichloroethene	µg/L	0									8	10	10	10	10
1,2-Dichloroethane	µg/L	0									8	10	10	10	10
1,2-Dichloroethene isomers (Total)	µg/L	0									8	10	10	10	10
1,2-Dichloropropane	µg/L	0									8	10	10	10	10
2-Butanone	µg/L	0									8	10	10	10	10
2-Hexanone	µg/L	0									8	10	10	10	10
4-Methyl-2-pentanone	µg/L	0									8	10	10	10	10
Acetone	µg/L	0									8	3.3	10.0	9.2	10.0
Benzene	µg/L	0									8	10	10	10	10
Bromodichloromethane	µg/L	0									8	10	10	10	10
Bromoform	µg/L	0									8	10	10	10	10
Bromomethane	µg/L	0									8	10	10	10	10
Carbon disulfide	µg/L	0									8	10	10	10	10
Carbon tetrachloride	µg/L	0									8	10	10	10	10
Chlorobenzene	µg/L	4	1.8	2.2	1.9	1.9	0.2	0.1	1.7	2.6	4	10	10	10	10
Chloroethane	µg/L	0									8	10	10	10	10
Chloroform	µg/L	0									8	10	10	10	10

Table G1-100. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Chloromethane	µg/L	0									8	10	10	10	10
cis-1,3-Dichloropropene	µg/L	0									8	10	10	10	10
Dibromochloromethane	µg/L	0									8	10	10	10	10
Ethylbenzene	µg/L	0									8	10	10	10	10
Methylene chloride	µg/L	0									8	10	10	10	10
Styrene	µg/L	0									8	10	10	10	10
Tetrachloroethene	µg/L	0									8	10	10	10	10
Toluene	µg/L	0									8	10	10	10	10
trans-1,3-Dichloropropene	µg/L	0									8	10	10	10	10
Trichloroethene	µg/L	0									8	10	10	10	10
Vinyl chloride	µg/L	0									8	10	10	10	10
Xylene isomers (Total)	µg/L	0									8	10	10	10	10
Semivolatile Organic Compounds															
1,2,4-Trichlorobenzene	µg/L	0									8	10	10	10	10
1,2-Dichlorobenzene	µg/L	0									8	10	10	10	10
1,3-Dichlorobenzene	µg/L	0									8	10	10	10	10
1,4-Dichlorobenzene	µg/L	0									8	10	10	10	10
2,2'-Oxybis[1-chloropropane]	µg/L	0									8	10	10	10	10
2,4,5-Trichlorophenol	µg/L	0									8	25	25	25	25
2,4,6-Trichlorophenol	µg/L	0									8	10	10	10	10
2,4-Dichlorophenol	µg/L	0									8	10	10	10	10
2,4-Dimethylphenol	µg/L	0									8	10	10	10	10
2,4-Dinitrophenol	µg/L	0									8	25	25	25	25
2,4-Dinitrotoluene	µg/L	0									8	10	10	10	10
2,6-Dinitrotoluene	µg/L	0									8	10	10	10	10
2-Chloronaphthalene	µg/L	0									8	10	10	10	10
2-Chlorophenol	µg/L	0									8	10	10	10	10
2-Methyl-4,6-dinitrophenol	µg/L	0									8	25	25	25	25
2-Methylphenol	µg/L	0									8	10	10	10	10
2-Nitroaniline	µg/L	0									8	25	25	25	25
2-Nitrophenol	µg/L	0									8	10	10	10	10
3,3'-Dichlorobenzidine	µg/L	0									8	10	10	10	10
3-Nitroaniline	µg/L	0									8	25	25	25	25
4-Bromophenyl-phenyl ether	µg/L	0									8	10	10	10	10
4-Chloro-3-methylphenol	µg/L	0									8	10	10	10	10
4-Chloroaniline	µg/L	0									8	10	10	10	10
4-Chlorophenyl-phenyl ether	µg/L	0									8	10	10	10	10
4-Methylphenol	µg/L	0									8	10	10	10	10
4-Nitroaniline	µg/L	0									8	25	25	25	25
4-Nitrophenol	µg/L	0									8	25	25	25	25
bis[2-chloroethoxy]methane	µg/L	0									8	10	10	10	10

Table G1-100. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
bis[2-chloroethyl]ether	µg/L	0									8	10	10	10	10
bis[2-Ethylhexyl]phthalate	µg/L	0									8	7.0	16.0	10.4	10.0
Butylbenzyl phthalate	µg/L	0									8	10	10	10	10
Carbazole	µg/L	0									8	10	10	10	10
Dibenzofuran	µg/L	0									8	10	10	10	10
Diethyl phthalate	µg/L	1	2.0	2.0	2.0	2.0	0.7	0.7			7	10	10	10	10
Dimethyl phthalate	µg/L	0									8	10	10	10	10
Di-n-butyl phthalate	µg/L	0									8	10	10	10	10
Di-n-octyl phthalate	µg/L	0									8	10	10	10	10
Hexachlorobenzene (ECD)	µg/L	0									8	10	10	10	10
Hexachlorobenzene (MS)	µg/L	0									8	0.1	0.1	0.1	0.1
Hexachlorobutadiene	µg/L	0									8	10	10	10	10
Hexachlorocyclopentadiene	µg/L	0									8	10	10	10	10
Hexachloroethane	µg/L	0									8	10	10	10	10
Isophorone	µg/L	0									8	10	10	10	10
Nitrobenzene	µg/L	0									8	10	10	10	10
N-nitroso-di-n-propylamine	µg/L	0									8	10	10	10	10
N-nitrosodiphenylamine	µg/L	0									8	10	10	10	10
Pentachlorophenol	µg/L	0									8	25	25	25	25
Phenol	µg/L	0									8	10	10	10	10
Naphthalene	µg/L	0									8	10	10	10	10
Acenaphthene	µg/L	0									8	10	10	10	10
Acenaphthylene	µg/L	0									8	10	10	10	10
Fluorene	µg/L	0									8	10	10	10	10
Phenanthrene	µg/L	0									8	10	10	10	10
Anthracene	µg/L	0									8	10	10	10	10
2-Methylnaphthalene	µg/L	0									8	10	10	10	10
Fluoranthene	µg/L	0									8	10	10	10	10
Pyrene	µg/L	0									8	10	10	10	10
Benz(a)anthracene	µg/L	0									8	10	10	10	10
Chrysene	µg/L	0									8	10	10	10	10
Benzo(b)fluoranthene	µg/L	0									8	10	10	10	10
Benzo(k)fluoranthene	µg/L	0									8	10	10	10	10
Benzo(a)pyrene	µg/L	0									8	10	10	10	10
Indeno(1,2,3-cd)pyrene	µg/L	0									8	10	10	10	10
Dibenz(a,h)anthracene	µg/L	0									8	10	10	10	10
Benzo(ghi)perylene	µg/L	0									8	10	10	10	10
Pesticides and Polychlorinated Biphenyls															
4,4'-DDD	µg/L	0									8	0.1	0.1	0.1	0.1
4,4'-DDE	µg/L	0									8	0.1	0.1	0.1	0.1
4,4'-DDT	µg/L	0									8	0.1	0.1	0.1	0.1

Table G1-100. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
Aldrin	µg/L	0									8	5.0E-02	5.0E-02	5.0E-02	5.0E-02
alpha-BHC	µg/L	0									8	5.0E-02	5.0E-02	5.0E-02	5.0E-02
alpha-Chlordane	µg/L	0									8	5.0E-02	5.0E-02	5.0E-02	5.0E-02
alpha-Endosulfan	µg/L	0									8	5.0E-02	5.0E-02	5.0E-02	5.0E-02
beta-BHC	µg/L	0									8	5.0E-02	5.0E-02	5.0E-02	5.0E-02
beta-Endosulfan	µg/L	0									8	0.1	0.1	0.1	0.1
delta-BHC	µg/L	0									8	5.0E-02	5.0E-02	5.0E-02	5.0E-02
Dieldrin	µg/L	0									8	0.1	0.1	0.1	0.1
Endosulfan sulfate	µg/L	0									8	0.1	0.1	0.1	0.1
Endrin	µg/L	0									8	0.1	0.1	0.1	0.1
Endrin aldehyde	µg/L	0									8	0.1	0.1	0.1	0.1
Endrin ketone	µg/L	0									8	0.1	0.1	0.1	0.1
gamma-BHC	µg/L	0									8	5.0E-02	5.0E-02	5.0E-02	5.0E-02
gamma-Chlordane	µg/L	0									8	5.0E-02	5.0E-02	5.0E-02	5.0E-02
Heptachlor	µg/L	0									8	5.0E-02	5.0E-02	5.0E-02	5.0E-02
Heptachlor epoxide	µg/L	0									8	5.0E-02	5.0E-02	5.0E-02	5.0E-02
Methoxychlor	µg/L	0									8	0.5	0.5	0.5	0.5
Toxaphene	µg/L	0									8	5.0	5.0	5.0	5.0
Aroclor 1016	µg/L	0									8	1.0	1.0	1.0	1.0
Aroclor 1221	µg/L	0									8	2.0	2.0	2.0	2.0
Aroclor 1232	µg/L	0									8	1.0	1.0	1.0	1.0
Aroclor 1242	µg/L	0									8	1.0	1.0	1.0	1.0
Aroclor 1248	µg/L	0									8	1.0	1.0	1.0	1.0
Aroclor 1254	µg/L	0									8	1.0	1.0	1.0	1.0
Aroclor 1260	µg/L	0									8	1.0	1.0	1.0	1.0
Aroclor 1268	µg/L	0									8	1.0	1.0	1.0	1.0
Dioxins/Furans															
2,3,7,8-TCDD	pg/L	0									8	1.5	7.6	3.6	2.6
1,2,3,7,8-PeCDD	pg/L	0									8	0.8	4.3	2.4	2.1
1,2,3,4,6,7,8-HpCDD	pg/L	0									8	0.9	13.0	4.1	2.8
1,2,3,6,7,8-HxCDD	pg/L	0									8	0.9	9.8	3.5	2.4
1,2,3,7,8,9-HxCDD	pg/L	0									8	0.9	10.0	3.3	1.8
1,2,3,4,7,8-HxCDD	pg/L	0									8	0.9	9.8	3.5	2.3
OCDD	pg/L	0									8	3.5	44.0	11.9	7.7
2,3,7,8-TCDF	pg/L	0									8	1.0	5.1	2.7	2.4
1,2,3,7,8-PeCDF	pg/L	1	2.6	2.6	2.6	2.6	1.1	1.1			7	0.6	5.8	3.1	3.0
2,3,4,7,8-PeCDF	pg/L	1	37	37	37	37	25	25			7	0.6	5.6	3.1	3.2
1,2,3,6,7,8-HxCDF	pg/L	0									8	0.4	3.6	1.6	1.1
2,3,4,6,7,8-HxCDF	pg/L	0									8	0.4	3.1	1.5	1.3
1,2,3,7,8,9-HxCDF	pg/L	0									8	0.2	3.3	1.6	1.7
1,2,3,4,7,8-HxCDF	pg/L	1	6.1	6.1	6.1	6.1	3.6	3.6			7	0.3	4.0	1.8	1.6

Table G1-100. (cont.)

		DETECTS									NON-DETECTS				
Analyte	Concen-tration Units	N	Minimum Detection	Maximum Detection	Mean	Median	Standard Deviation	Standard Error	Skewness	Kurtosis	N	Minimum Detection Limit	Maximum Detection Limit	Mean	Median
1,2,3,4,6,7,8-HpCDF	pg/L	0									8	0.3	5.2	1.3	0.8
1,2,3,4,7,8,9-HpCDF	pg/L	0									8	0.8	4.9	1.8	1.2
OCDF	pg/L	0									8	0.9	7.5	3.8	3.4

Appendix G2

Sediment/Soil Screening Tables

APPENDIX G2. SEDIMENT/SOIL SCREENING TABLES

This section of Appendix G presents a summary of the screening of sediment and soil samples from the RI against appropriate criteria and standards. This screening was required by the New York State Department of Environmental Conservation (NYSDEC) in comments on the draft RI report (T. Larson, pers. comm., 1999); however, the selection of contaminants of potential concern (COPCs) and contaminants of concern (COCs) for the Onondaga Lake Human Health Risk Assessment (HHRA) and Baseline Ecological Risk Assessment (BERA) was based on screening conducted during those risk assessments (TAMS, 2002b,a). Sediment, soil, water, and biota (fish) data are screened against risk-based thresholds in Appendix D of the BERA and Appendix B of the HHRA. The COPCs and COCs selected during the risk assessments are summarized in Chapter 1 of this RI report.

The screening evaluation was conducted by comparing all detected concentrations to each screening criterion. The data used in the screening evaluation include analytical results for:

- The supplemental Wetland SYW-6 sediment samples collected in 2002 (RI Appendix B).
- Sediment samples collected in Onondaga Lake in 2000 (RI Appendix B).
- Wetland sediment samples collected in 2000 (RI Appendix B).
- Soil samples from the dredge spoils area collected in 2000 (RI Appendix B).
- Sediment samples from previous studies conducted in Onondaga Lake in 1992 (PTI, 1993).
- Tributary sediment samples collected in 1992 (PTI, 1993) and 1994 (PTI, 1994).

Lake, wetland, and tributary sediment data were screened against NYSDEC's Technical Guidance for Screening Contaminated Sediments (NYSDEC, 1999). Screening criteria included two criteria for metals (i.e., lowest effect level [LEL] and severe effect level [SEL]) and four total organic carbon (TOC)-normalized criteria for organic compounds (i.e., human health bioaccumulation, acute toxicity for benthic aquatic life, chronic toxicity for benthic aquatic life, and wildlife bioaccumulation). The figures in Chapter 5 of this RI depict the comparison of lake sediment data to the NYSDEC screening criteria.

Soil data were screened against NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046: *Determination of Soil Cleanup Objectives and Cleanup Levels*. Screening criteria in TAGM 4046 for metals include a range of concentrations for eastern US background soils and a recommended

soil cleanup objective (RSCO). Screening criteria in TAGM 4046 for organic compounds include a soil cleanup objective to protect groundwater quality, US Environmental Protection Agency (USEPA) health-based levels for carcinogens and systemic toxicants, and a RSCO.

Summary tables of the number of exceedances for metals and organic compounds at each sampling interval are shown in Tables G2-1 through G2-15. Sediment samples taken at depth intervals that do not completely correspond with the sampling depth intervals presented in these tables were classified based on the category containing the midpoint of their depth intervals. Dredge spoil soil data were not categorized into interval depths because each station was sampled at slightly different intervals. Maximum concentrations and stations with the maximum concentrations are also presented in these tables.

References

Larson, T. J., NYSDEC, Division of Environmental Remediation, Albany, NY. 1999. Personal communication via letter to A. Labuz, AlliedSignal, Inc., Syracuse, NY, regarding comments on the Onondaga Lake RI/FS draft report. August 3.

New York State Department of Environmental Conservation (NYSDEC). 1999. Technical guidance for screening contaminated sediments. NYSDEC, Division of Fish, Wildlife, and Marine Resources, Albany, NY.

PTI Environmental Services, Inc. (PTI). 1993. Onondaga Lake RI/FS Substance Distribution Investigation Data Report. Volume I. Prepared for AlliedSignal, Inc., Solvay, NY. PTI Environmental Services, Waltham, MA.

PTI. 1994. Supplemental sediment sampling at Onondaga Lake – East Flume. Prepared for AlliedSignal, Inc., Solvay, NY. PTI Environmental Services, Waltham, MA.

Table G2-1. Exceedance Summary for Inorganics in Lake Sediments Collected by Exponent in 2000

Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Station ID (max. conc.)	Sample ID (max. conc.)	Maximum Concentration (mg/kg dry)	Minimum Exceeded Concentration (mg/kg dry)	NYSDEC LEL Criteria Value (mg/kg dry)	NYSDEC LEL No. of Exceed-ances	NYSDEC SEL Criteria Value (mg/kg dry)	NYSDEC SEL No. of Exceed-ances
Interval 0-15 cm										
Antimony	85	44	S344	SF0111_T	5.40	2.20	2	8	25	0
Arsenic	85	82	S333	SF0134	47.3	6.90	6	26	33	1
Cadmium	85	82	S322	SF0088	14.9	0.62	0.6	55	9	4
Chromium	85	85	S327	SF0099	4,180	26.2	26	58	110	24
Copper	85	85	S339	SF0124	366	18.0	16	68	110	14
Iron	85	85	S327	SF0099	50,800	20,600	20,000	13	40,000	1
Lead	85	85	S352	SF0151	750	32.3	31	48	110	19
Manganese	85	85	S327	SF0099	1,190	467	460	11	1,100	1
Nickel	85	85	S327	SF0099	1,670	16.8	16	50	50	22
Silver	85	53	S315	SF0074	6.10	1.20	1	20	2.2	15
Total Mercury	157	154	S344	SF0111_T	77.7	0.16	0.15	149	1.3	113
Zinc	85	85	S338	SF0121	421	122	120	32	270	7
Interval 15-30 cm										
Antimony	75	39	S344	SF0112	9.10	2.20	2	9	25	0
Arsenic	75	70	S333	SF0135	39.7	6.10	6	27	33	1
Cadmium	75	59	S323	SF0091	42.0	0.62	0.6	41	9	7
Chromium	75	75	S327	SF0100	4,950	26.2	26	38	110	18
Copper	75	75	S336	SF0118	446	18.1	16	50	110	15
Iron	75	75	S327	SF0100	49,400	20,600	20,000	13	40,000	2
Lead	75	75	S336	SF0118	2,050	32.1	31	40	110	19
Manganese	75	75	S327	SF0100	1,060	470	460	9	1,100	0
Nickel	75	75	S327	SF0100	1,610	16.1	16	44	50	16
Silver	75	41	S331	SF0108	8.70	1.20	1	21	2.2	17
Total Mercury	75	59	S344	SF0112	55.0	0.16	0.15	52	1.3	42
Zinc	75	75	S336	SF0118	2,260	122	120	32	270	9
Interval 30-100 cm										
Antimony	56	39	S337	SB0027	11.1	2.60	2	6	25	0
Arsenic	56	54	S337	SB0027	33.6	6.20	6	35	33	1
Cadmium	56	46	S323	VC0177	88.5	0.63	0.6	33	9	14
Chromium	56	56	S337	SB0027	6,310	29.2	26	30	110	22
Copper	56	56	S337	SB0027	753	25.0	16	46	110	19
Iron	56	56	S327	SB0007	60,900	20,800	20,000	9	40,000	3
Lead	56	56	S337	SB0027	4,390	36.7	31	40	110	25
Manganese	56	56	S327	SB0007	1,450	496	460	7	1,100	1
Nickel	56	56	S327	SB0007	2,020	16.2	16	37	50	20
Silver	56	37	S354	SB0061	14.7	1.20	1	22	2.2	18
Total Mercury	71	65	S303	VC0017	48.6	0.27	0.15	62	1.3	49
Zinc	56	56	S323	VC0177	1,530	121	120	25	270	16
Interval 100-200 cm										
Antimony	59	38	S337	SB0028	7.30	5.40	2	5	25	0
Arsenic	59	56	S336	SB0026	38.9	6.20	6	33	33	1
Cadmium	59	43	S315	VC0114	47.6	0.67	0.6	34	9	7
Chromium	59	59	S327	SB0008	11,300	27.5	26	29	110	16
Copper	59	59	S336	SB0026	546	18.0	16	45	110	19
Iron	59	59	S327	SB0008	113,000	20,100	20,000	7	40,000	3
Lead	59	59	S337	SB0028	2,160	35.3	31	34	110	19
Manganese	59	59	S327	SF0148	3,400	484	460	8	1,100	2
Nickel	59	59	S327	SB0008	4,640	17.9	16	33	50	13
Silver	59	32	S315	VC0114	28.5	1.10	1	19	2.2	9
Total Mercury	65	55	S301	VC0002	78.7	0.27	0.15	51	1.3	37
Zinc	59	59	S315	VC0114	819	123.5	120	25	270	11
Interval 200-300 cm										
Antimony	23	9	S314	VC0107	2.70	2.70	2	1	25	0
Arsenic	23	23	S304	VC0027	11.65	6.50	6	14	33	0
Cadmium	23	16	S315	VC0115	16.6	0.63	0.6	11	9	2
Chromium	23	23	S315	VC0115	260	28.1	26	10	110	2
Copper	23	23	S315	VC0115	309	34.5	16	16	110	5
Iron	23	23	S319	VC0147	22,600	20,100	20,000	4	40,000	0
Lead	23	23	S314	VC0107	430	34.9	31	14	110	7
Manganese	23	23	S309	VC0066	841	462	460	4	1,100	0
Nickel	23	23	S315	VC0115	106	17.7	16	13	50	3
Silver	23	13	S315	VC0115	9.70	1.50	1	6	2.2	4
Total Mercury	23	17	S301	VC0003	125	0.76	0.15	15	1.3	13
Zinc	23	23	S315	VC0115	539	127	120	12	270	4

Table G2-1. (cont.)

Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Station ID (max. conc.)	Sample ID (max. conc.)	Maximum Concentration (mg/kg dry)	Minimum Exceeded Concentration (mg/kg dry)	NYSDEC LEL Criteria Value (mg/kg dry)	NYSDEC LEL No. of Exceed-ances	NYSDEC SEL Criteria Value (mg/kg dry)	NYSDEC SEL No. of Exceed-ances
Interval 300-400 cm										
Arsenic	24	24	S301	VC0004	26.9	6.90	6	13	33	0
Cadmium	24	18	S315	VC0116	22.2	0.67	0.6	11	9	1
Chromium	24	24	S315	VC0116	158	27.7	26	11	110	2
Copper	24	24	S315	VC0116	277	23.5	16	16	110	5
Iron	24	24	S319	VC0148	23,400	20,600	20,000	3	40,000	0
Lead	24	24	S315	VC0116	320	37.5	31	15	110	7
Manganese	24	24	S309	VC0067	1,400	470	460	5	1,100	1
Nickel	24	24	S304	VC0028	71.6	17.7	16	15	50	3
Silver	24	13	S315	VC0116	9.70	2.10	1	5	2.2	4
Total Mercury	24	17	S305	VC0036	110	0.34	0.15	16	1.3	12
Zinc	24	24	S315	VC0116	613	146	120	11	270	5
Interval 400-500 cm										
Arsenic	23	23	S304	VC0029	29.2	8.00	6	8	33	0
Cadmium	23	13	S305	VC0037	4.80	0.72	0.6	7	9	0
Chromium	23	23	S305	VC0037	72.5	27.3	26	7	110	0
Copper	23	23	S315	VC0117	235	17.5	16	15	110	2
Iron	23	23	S304	VC0029	26,400	22,800	20,000	3	40,000	0
Lead	23	23	S315	VC0117	319	31.1	31	12	110	2
Manganese	23	23	S309	VC0068	1,220	500	460	5	1,100	2
Nickel	23	23	S304	VC0029	85.1	17.4	16	12	50	1
Silver	23	7	S315	VC0117	6.40	1.20	1	2	2.2	1
Total Mercury	23	18	S305	VC0037	28.9	0.22	0.15	13	1.3	7
Zinc	23	23	S315	VC0117	574	134	120	6	270	1
Interval 500-600 cm										
Arsenic	25	25	S304	VC0030	67.2	7.00	6	9	33	2
Cadmium	25	12	S305	VC0038	3.50	0.99	0.6	5	9	0
Chromium	25	25	S305	VC0038	68.7	26.7	26	5	110	0
Copper	25	25	S317	VC0134	131	16.1	16	12	110	2
Iron	25	25	S304	VC0030	43,500	21,200	20,000	5	40,000	1
Lead	25	25	S317	VC0134	205	41.4	31	7	110	3
Manganese	25	25	S311	VC0086	1,490	606	460	3	1,100	1
Nickel	25	25	S304	VC0030	62.9	16.3	16	11	50	1
Silver	25	7	S317	VC0134	1.30	1.10	1	2	2.2	0
Total Mercury	25	16	S312	VC0094	6.20	0.20	0.15	11	1.3	5
Zinc	25	25	S315	VC0118	252	122	120	7	270	0
Interval 600-700 cm										
Arsenic	24	24	S305	VC0211	44.5	7.20	6	5	33	1
Cadmium	24	14	S305	VC0211	3.20	0.91	0.6	6	9	0
Chromium	24	24	S305	VC0211	89.8	31.2	26	4	110	0
Copper	24	24	S305	VC0211	92.3	17.5	16	12	110	0
Iron	24	24	S305	VC0211	28,400	22,500	20,000	4	40,000	0
Lead	24	24	S315	VC0119	84.2	32.4	31	8	110	0
Manganese	24	24	S309	VC0071	1,350	621	460	5	1,100	2
Nickel	24	24	S305	VC0211	53.0	16.3	16	12	50	1
Total Mercury	24	14	S312	VC0095	2.70	0.18	0.15	12	1.3	3
Zinc	24	24	S305	VC0211	189	127	120	3	270	0
Interval 700-800 cm										
Arsenic	15	15	S304	VC0032	26.4	26.4	6	1	33	0
Cadmium	15	5	S304	VC0032	1.20	1.20	0.6	1	9	0
Copper	15	15	S314	VC0112	33.0	19.2	16	5	110	0
Iron	15	15	S322	VC0176	20,400	20,400	20,000	1	40,000	0
Lead	15	15	S314	VC0112	49.7	49.7	31	1	110	0
Manganese	15	15	S302	VC0016	671	671	460	1	1,100	0
Nickel	15	15	S322	VC0176	22.1	16.5	16	7	50	0
Total Mercury	15	8	S309	VC0209	0.85	0.22	0.15	5	1.3	0

Notes: SEL - severe effects level
LEL - lowest effects level

Table G2-2. Exceedance Summary for Organic Compounds in Lake Sediments Collected by Exponent in 2000

Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Station ID (max. conc.)	Sample ID (max. conc.)	Maximum Normalized Concentration (mg/kg TOC)	Minimum Exceeded Normalized Concentration (mg/kg TOC)	NYSDEC HHB Criteria Value (mg/kg TOC)	NYSDEC HHB No. of Exceed-ances	NYSDEC ATBAL Criteria Value (mg/kg TOC)	NYSDEC ATBAL No. of Exceed-ances	NYSDEC CTBAL Criteria Value (mg/kg TOC)	NYSDEC CTBAL No. of Exceed-ances	NYSDEC WB Criteria Value (mg/kg TOC)	NYSDEC WB No. of Exceed-ances
Interval 0-15 cm														
Volatile Organic Compounds														
Benzene	62	45	S335	SF0115	1,440	0.89	0.6	31	103	2	28	8		
Toluene	62	30	S363	SF0018	136	51.4			235	0	49	8		
Ethylbenzene	62	39	S435	SF0172	226	24.5			212	1	24	9		
Xylene (Total)	62	43	S345	SF0136	2,060	92.1			833	5	92	18		
Chlorobenzene	62	48	S312	SF0068	16,420	4.20			34.6	18	3.5	31		
1,2-Dichloroethane	62	1	S340	SF0123	1.55	1.55	0.7	1						
Semivolatile Organic Compounds														
1,2-Dichlorobenzene	85	22	S312	SF0068	788	12.4			120	4	12	14		
1,3-Dichlorobenzene	85	9	S344	SF0111_T	316	17.0			120	1	12	4		
1,4-Dichlorobenzene	85	36	S312	SF0068	1,970	12.4			120	6	12	23		
Dichlorobenzene	80	38	S312	SF0068	2,760	12.4			120	8	12	25		
1,2,4-Trichlorobenzene	85	7	S344	SF0111_T	299	299			910	0	91	1		
Trichlorobenzene	85	7	S344	SF0111_T	299	299			910	0	91	1		
Hexachlorobenzene	85	1	S304	SF0052	2.30	2.30	0.15	1	9,080	0	5,570	0	12	0
Hexachlorobenzene (GC/ECD)	74	53	S314	SF0072	43.8	0.15	0.15	31	9,080	0	5,570	0	12	2
Naphthalene	85	42	S435	SF0172	82,800	34.2			258	19	30	27		
Acenaphthene	85	20	S313	VC0187	607	607					140	1		
Fluorene	85	25	S313	VC0187	1,000	8.72			73	3	8	14		
Phenanthrene	85	53	S313	VC0187	2,710	130					120	8		
Anthracene	85	35	S313	VC0187	679	175			986	0	107	3		
2-Methylnaphthalene	85	31	S435	SF0172	8,920	34.4			304	2	34	16		
Fluoranthene	85	60	S313	VC0187	1,790	1,790					1,020	1		
Pyrene	85	60	S313	VC0187	1,070	1,070			8,780	0	961	1		
Benzo(a)anthracene	85	51	S313	VC0187	714	12.5			94	4	12	17		
Chrysene	85	52	S313	VC0187	714	1.68	1.3	46						
Benzo(b)fluoranthene	85	47	S313	VC0187	407	1.55	1.3	43						
Benzo(k)fluoranthene	85	48	S313	VC0187	429	1.42	1.3	43						
Benzo(a)pyrene	85	49	S313	VC0187	464	1.61	1.3	43						
Indeno(1,2,3-cd)pyrene	85	41	S313	VC0187	271	1.36	1.3	37						
Phenol	85	11	S342	SF0130_T	52.8	2.38					0.5	11		
Pesticides/Polychlorinated Biphenyls														
alpha-BHC	64	10	S313	VC0187	0.09	0.09	0.06	1	12.6	0	0.06	1	1.5	0
beta-BHC	65	10	S335	SF0115	0.13	0.10	0.06	3	12.6	0	0.06	3	1.5	0
delta-BHC	19	14	S342	SF0130_T	0.07	0.07	0.06	1	12.6	0	0.06	1	1.5	0
Hexachlorocyclohexanes	74	27	S335	SF0115	0.13	0.07	0.06	7	12.6	0	0.06	7	1.5	0
Aldrin and dieldrin	67	27	S338	SF0121	0.37	0.12	0.1	7				0	0.77	0
alpha-Chlordane	69	13	S352	SF0151	0.17	0.01	1.0E-03	13	1.4	0	0.03	6	6.0E-03	13
gamma-Chlordane	63	21	S322	SF0088	0.44	0.01	1.0E-03	21	1.4	0	0.03	15	6.0E-03	21
Chlordane	71	26	S322	SF0088	0.53	0.01	1.0E-03	26	1.4	0	0.03	17	6.0E-03	26
Dieldrin	67	26	S338	SF0121	0.37	0.12	0.1	6			9	0	0.77	0
Endosulfan I	65	4	S352	SF0151	0.10	0.05			0.78	0	0.03	4		
Heptachlor	71	3	S353	SF0113	0.06	0.01	8.0E-04	3	13.1	0	0.1	0	0.03	1
Heptachlor epoxide	60	25	S314	SF0072	0.34	0.02	8.0E-04	25	13.1	0	0.1	7	0.03	19
Heptachlor and heptachlor epoxide	74	28	S314	SF0072	0.34	0.01	8.0E-04	28	13.1	0	0.1	7	0.03	20
4,4'-DDD	46	2	S311	VC0207	0.05	1.2E-02	0.01	2					1	0
4,4'-DDE	63	29	S350	SF0146	0.51	1.3E-02	0.01	29					1	0
4,4'-DDT	54	43	S313	VC0187	0.63	0.02	0.01	42	1,100	0	1	0	1	0
Polychlorinated biphenyls	110	92	S344	BC0008	129	0.16	8.0E-03	92	2,760	0	19.3	15	1.4	70

Table G2-2 (cont.)

Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Station ID (max. conc.)	Sample ID (max. conc.)	Maximum Normalized Concentration (mg/kg TOC)	Minimum Exceeded Normalized Concentration (mg/kg TOC)	NYSDEC HHB Criteria Value (mg/kg TOC)	NYSDEC HHB No. of Exceed-ances	NYSDEC ATBAL Criteria Value (mg/kg TOC)	NYSDEC ATBAL No. of Exceed-ances	NYSDEC CTBAL Criteria Value (mg/kg TOC)	NYSDEC CTBAL No. of Exceed-ances	NYSDEC WB Criteria Value (mg/kg TOC)	NYSDEC WB No. of Exceed-ances
Dioxins/Furans														
2,3,7,8-Tetra-chlorodibenzo-dioxin	15	12	S322	SF0088	2.2E-04	2.2E-04	0.01	0					2.0E-04	1
2,3,7,8-Tetra-chlorodibenzo-dioxin (TE	15	15	S346	SF0138	3.8E-03	2.3E-04	0.01						2.0E-04	9
Interval 15-30 cm														
Volatile Organic Compounds														
Benzene	57	48	S335	SF0116	2,900	0.73	0.6	34	103	4	28	14		
Toluene	57	30	S332	SF0110	441	63.7			235	1	49	11		
Ethylbenzene	57	32	S332	SF0110	155	26.6			212	0	24	12		
Xylene (Total)	57	43	S332	SF0110	3,220	94.2			833	6	92	21		
Chlorobenzene	57	46	S312	SF0069	7,420	3.75			34.6	23	3.5	34		
Semivolatile Organic Compounds														
1,2-Dichlorobenzene	75	22	S312	SF0069	6,450	16.7			120	6	12	15		
1,3-Dichlorobenzene	75	14	S309	SF0063	69.8	21.0			120	0	12	6		
1,4-Dichlorobenzene	75	35	S312	SF0069	14,800	12.4			120	11	12	26		
Dichlorobenzene	73	37	S312	SF0069	21,300	13.1			120	14	12	26		
1,2,4-Trichlorobenzene	75	12	S312	SF0069	613	363			910	0	91	2		
Trichlorobenzene	75	12	S312	SF0069	613	363			910	0	91	2		
Hexachlorobenzene	75	2	S315	SF0075	4.36	3.22	0.15	2	9,080	0	5,570	0	12	0
Hexachlorobenzene (GC/ECD)	68	46	S344	SF0112	28.8	0.15	0.15	27	9,080	0	5,570	0	12	3
Naphthalene	75	42	S332	SF0110	6,670	213			258	21	30	24		
Fluorene	75	28	S333	SF0135	599	8.47			73	5	8	18		
Phenanthrene	75	51	S333	SF0135	599	128				0	120	11		
Anthracene	75	39	S333	SF0135	257	131			986	0	107	5		
2-Methylnaphthalene	75	34	S332	SF0110	465	42.9			304	1	34	21		
Benzo(a)anthracene	75	42	S313	VC0188	246	12.5			94	5	12	20		
Chrysene	75	44	S313	VC0188	246	1.46	1.3	43						
Benzo(b)fluoranthene	75	40	S313	VC0188	165	1.60	1.3	38						
Benzo(k)fluoranthene	75	38	S313	VC0188	194	1.58	1.3	37						
Benzo(a)pyrene	75	38	S313	VC0188	211	1.35	1.3	36						
Indeno(1,2,3-cd)pyrene	75	36	S313	VC0188	130	1.39	1.3	34						
Phenol	75	16	S365	SF0023	224	3.01					0.5	16		
Pesticides/Polychlorinated Biphenyls														
alpha-BHC	55	15	S313	VC0188	0.13	0.08	0.06	3	12.6	0	0.06	3	1.5	0
beta-BHC	56	9	S316	SF0077	0.23	0.06	0.06	5	12.6	0	0.06	5	1.5	0
delta-BHC	20	11	S312	SF0069	0.10	0.10	0.06	1	12.6	0	0.06	1	1.5	0
Hexachlorocyclohexanes	66	29	S316	SF0077	0.23	0.06	0.06	9	12.6	0	0.06	9	1.5	0
Aldrin and dieldrin	63	29	S338	SF0122	0.83	0.12	0.1	11					0.77	1
alpha-Chlordane	59	13	S313	VC0188	0.14	0.02	1.0E-03	13	1.4	0	0.03	9	6.0E-03	13
gamma-Chlordane	58	21	S318	VC0190	0.48	0.02	1.0E-03	21	1.4	0	0.03	17	6.0E-03	21
Chlordane	63	25	S318	VC0190	0.48	0.02	0.001	25	1.4	0	0.03	20	6.0E-03	25
Dieldrin	60	29	S338	SF0122	0.83	0.12	0.1	11			9	0	0.77	1
Endosulfan I	52	7	S344	SF0112	0.15	0.06			0.78	0	0.03	4		
Heptachlor	61	2	S355	SF0158	0.04	0.04	8.0E-04	2	13.1	0	0.1	0	0.03	2
Heptachlor epoxide	57	15	S331	SF0108	0.43	0.02	8.0E-04	15	13.1	0	0.1	6	0.03	11
Heptachlor and heptachlor epoxide	66	16	S331	SF0108	0.43	0.02	8.0E-04	16	13.1	0	0.1	7	0.03	12
4,4'-DDD	37	2	S331	SF0108	0.08	0.03	0.01	2					1	0
4,4'-DDE	52	20	S322	SF0089	0.24	0.02	0.01	20					1	0
4,4'-DDT	44	26	S331	SF0108	0.87	0.02	0.01	26	1,100	0	1	0	1	0
Polychlorinated biphenyls	73	53	S344	SF0112	110	0.13	8.0E-03	53	2,760	0	19.3	12	1.4	44

Table G2-2 (cont.)

Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Station ID (max. conc.)	Sample ID (max. conc.)	Maximum Normalized Concentration (mg/kg TOC)	Minimum Exceeded Normalized Concentration (mg/kg TOC)	NYSDEC HHB Criteria Value (mg/kg TOC)	NYSDEC HHB No. of Exceed-ances	NYSDEC ATBAL Criteria Value (mg/kg TOC)	NYSDEC ATBAL No. of Exceed-ances	NYSDEC CTBAL Criteria Value (mg/kg TOC)	NYSDEC CTBAL No. of Exceed-ances	NYSDEC WB Criteria Value (mg/kg TOC)	NYSDEC WB No. of Exceed-ances
Dioxins/Furans														
2,3,7,8-Tetra-chlorodibenzo-dioxin (TE	14	14	S311	VC0208	2.7E-02	6.1E-04	0.01	1					2.0E-04	9
Interval 30-100 cm														
Volatile Organic Compounds														
Benzene	51	47	S335	SB0023	4,020	0.63	0.6	39	103	5	28	18		
Toluene	51	33	S345	SB0043	665	58.7			235	5	49	13		
Ethylbenzene	51	41	S342	SB0037	178	25.5			212	0	24	12		
Xylene (Total)	51	44	S345	SB0043	3,780	133			833	6	92	21		
Chlorobenzene	51	46	S335	SB0023	9,090	3.70			34.6	24	3.5	35		
Semivolatile Organic Compounds														
1,2-Dichlorobenzene	56	24	S332	SB0017	484	12.6			120	5	12	18		
1,3-Dichlorobenzene	56	15	S336	SB0025	378	12.2			120	1	12	5		
1,4-Dichlorobenzene	56	36	S336	SB0025	1,300	13.8			120	9	12	24		
Dichlorobenzene	53	34	S336	SB0025	1,680	13.4			120	13	12	24		
1,2,4-Trichlorobenzene	56	9	S314	VC0105	108	108			910	0	91	1		
Trichlorobenzene	56	9	S314	VC0105	108	108			910	0	91	1		
Vinyl chloride	51	2	S313	VC0097	0.38	0.16	0.07	2						
Hexachlorobenzene (GC/ECD)	48	37	S344	SB0019	16.5	0.18	0.15	26	9,080	0	5,570	0	12	1
Naphthalene	56	44	S332	SB0017	8,110	31.7			258	21	30	27		
Acenaphthene	56	24	S351	SB0055	305	305					140	1		
Fluorene	56	33	S351	SB0055	276	8.13			73	6	8	20		
Phenanthrene	56	45	S351	SB0055	781	195					120	9		
Anthracene	56	35	S351	SB0055	210	116			986	0	107	6		
2-Methylnaphthalene	56	41	S351	SB0055	505	43.2			304	2	34	23		
Benzo(a)anthracene	56	34	S316	VC0121	209	12.7			94	4	12	20		
Chrysene	56	36	S316	VC0121	180	1.43	1.3	34						
Benzo(b)fluoranthene	56	31	S316	VC0121	108	3.78	1.3	29						
Benzo(k)fluoranthene	56	31	S316	VC0121	129	3.40	1.3	29						
Benzo(a)pyrene	56	31	S355	SB0035	180	3.47	1.3	29						
Indeno(1,2,3-cd)pyrene	56	26	S316	VC0121	79.1	2.27	1.3	25						
Phenol	56	15	S345	SB0043	104	1.02					0.5	15		
Hexachlorobutadiene	56	1	S304	VC0025	1.37	1.37	0.3	1	55	0	5.5	0	4	0
Pesticides/Polychlorinated Biphenyls														
alpha-BHC	37	9	S314	VC0105	0.11	0.07	0.06	3	12.6	0	0.06	3	1.5	0
beta-BHC	38	7	S327	SB0007	0.13	0.10	0.06	2	12.6	0	0.06	2	1.5	0
delta-BHC	19	6	S332	SB0017	0.07	0.07	0.06	2	12.6	0	0.06	2	1.5	0
gamma-BHC (Lindane)	39	1	S344	SB0019	0.35	0.35	0.06	1	12.6	0	0.06	1	1.5	0
Hexachlorocyclohexanes	43	18	S344	SB0019	0.42	0.07	0.06	8	12.6	0	0.06	8	1.5	0
Aldrin and dieldrin	47	26	S354	SB0061	0.98	0.10	0.1	15					0.77	1
alpha-Chlordane	45	17	S354	SB0061	0.22	0.01	1.0E-03	17	1.4	0	0.03	7	6.0E-03	17
gamma-Chlordane	40	13	S317	VC0129	0.41	0.06	1.0E-03	13	1.4	0	0.03	13	6.0E-03	13
Chlordane	49	22	S313	VC0097	0.42	0.01	1.0E-03	22	1.4	0	0.03	16	6.0E-03	22
Dieldrin	45	25	S354	SB0061	0.98	0.10	0.1	15			9	0	0.77	1
Endosulfan I	41	5	S319	VC0145	0.08	0.03			0.78	0	0.03	4		
Heptachlor	42	4	S313	VC0097	0.24	0.02	8.0E-04	4	13.1	0	0.1	1	0.03	2
Heptachlor epoxide	45	23	S354	SB0061	0.56	0.02	8.0E-04	23	13.1	0	0.1	17	0.03	22
Heptachlor and heptachlor epoxide	47	24	S313	VC0097	0.58	0.02	8.0E-04	24	13.1	0	0.1	17	0.03	23
4,4'-DDD	33	3	S312	VC0089	0.15	0.02	0.01	3					1	0
4,4'-DDE	43	25	S354	SB0061	0.41	0.02	0.01	25					1	0
4,4'-DDT	41	27	S313	VC0097	0.83	0.02	0.01	27	1,100	0	1	0	1	0
Polychlorinated biphenyls	53	45	S354	SB0061	313	0.59	8.0E-03	45	2,760	0	19.3	14	1.4	43

Table G2-2 (cont.)

Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Station ID (max. conc.)	Sample ID (max. conc.)	Maximum Normalized Concentration (mg/kg TOC)	Minimum Exceeded Normalized Concentration (mg/kg TOC)	NYSDEC HHB Criteria Value (mg/kg TOC)	NYSDEC HHB No. of Exceed-ances	NYSDEC ATBAL Criteria Value (mg/kg TOC)	NYSDEC ATBAL No. of Exceed-ances	NYSDEC CTBAL Criteria Value (mg/kg TOC)	NYSDEC CTBAL No. of Exceed-ances	NYSDEC WB Criteria Value (mg/kg TOC)	NYSDEC WB No. of Exceed-ances
Dioxins/Furans														
2,3,7,8-Tetra-chlorodibenzo-dioxin	12	8	S346	SB0045	3.8E-04	3.8E-04	0.01	0					2.0E-04	1
2,3,7,8-Tetra-chlorodibenzo-dioxin (TE	12	12	S346	SB0045	1.3E-02	1.0E-03	0.01	1					2.0E-04	8
Interval 100-200 cm														
Volatile Organic Compounds														
Benzene	54	50	S335	SB0024	988	0.80	0.6	39	103	9	28	17		
Toluene	54	36	S341	SF0119	2,940	53.8			235	7	49	13		
Ethylbenzene	54	43	S345	SB0044	288	29.8			212	1	24	13		
Xylene (Total)	54	45	S345	SB0044	6,400	162			833	8	92	18		
Chlorobenzene	54	39	S335	SB0024	2,200	3.62			34.6	15	3.5	25		
Semivolatile Organic Compounds														
1,2-Dichlorobenzene	59	18	S312	VC0090	1,300	12.5			120	4	12	11		
1,3-Dichlorobenzene	59	8	S313	VC0098	24.9	24.9			120	0	12	1		
1,4-Dichlorobenzene	59	24	S312	VC0090	695	17.5			120	5	12	14		
Dichlorobenzene	56	23	S312	VC0090	1,990	14.2			120	8	12	14		
1,2,4-Trichlorobenzene	59	5	S312	VC0090	267	96.3			910	0	91	2		
Trichlorobenzene	59	5	S312	VC0090	267	96.3			910	0	91	2		
Hexachlorobenzene	59	1	S301	VC0002	1.56	1.56	0.15	1	9,080	0	5,570	0	12	0
Hexachlorobenzene (GC/ECD)	47	28	S312	VC0090	5.54	0.16	0.15	19	9,080	0	5,570	0	12	0
Naphthalene	59	41	S312	VC0090	13,000	34.2			258	22	30	27		
Acenaphthene	59	27	S319	VC0146	305	166					140	3		
Fluorene	59	35	S312	VC0090	916	9.68			73	10	8	26		
Phenanthrene	59	45	S319	VC0146	717	134					120	14		
Anthracene	59	35	S319	VC0146	269	123			986	0	107	6		
2-Methylnaphthalene	59	36	S346	SB0046	822	34.1			304	8	34	26		
Benzo(a)anthracene	59	38	S319	VC0146	168	12.5			94	4	12	23		
Chrysene	59	38	S319	VC0146	179	1.52	1.3	37						
Benzo(b)fluoranthene	59	34	S351	SB0056	98.9	2.29	1.3	34						
Benzo(k)fluoranthene	59	34	S351	SB0056	97.8	2.49	1.3	34						
Benzo(a)pyrene	59	35	S319	VC0146	125	1.31	1.3	35						
Indeno(1,2,3-cd)pyrene	59	29	S351	SB0056	66.9	1.83	1.3	29						
Phenol	59	18	S312	VC0090	244	4.19					0.5	18		
Pesticides/Polychlorinated Biphenyls														
alpha-BHC	43	5	S343	SB0040	0.07	0.07	0.06	1	12.6	0	0.06	1	1.5	0
beta-BHC	37	7	S304	VC0026	0.10	0.06	0.06	2	12.6	0	0.06	2	1.5	0
delta-BHC	20	8	S354	SB0062	0.11	0.07	0.06	2	12.6	0	0.06	2	1.5	0
gamma-BHC (Lindane)	44	2	S309	VC0065	0.16	0.16	0.06	1	12.6	0	0.06	1	1.5	0
Hexachlorocyclohexanes	49	17	S309	VC0065	0.16	0.06	0.06	7	12.6	0	0.06	7	1.5	0
Aldrin and dieldrin	51	21	S325	SB0004	0.48	0.10	0.1	7					0.77	0
alpha-Chlordane	47	10	S314	VC0106	0.14	0.01	1.0E-03	10	1.4	0	0.03	8	6.0E-03	10
gamma-Chlordane	48	14	S314	VC0106	0.39	0.02	1.0E-03	14	1.4	0	0.03	10	6.0E-03	14
Chlordane	50	20	S314	VC0106	0.52	0.01	1.0E-03	20	1.4	0	0.03	14	6.0E-03	20
Dieldrin	48	20	S325	SB0004	0.48	0.12	0.1	5			9	0	0.77	0
Endosulfan I	45	3	S309	VC0065	0.13	0.05			0.78	0	0.03	2		
Endosulfan II	44	2	S304	VC0026	0.06	0.06			0.78	0	0.03	1		
Heptachlor	45	3	S309	VC0065	0.43	0.11	8.0E-04	3	13.1	0	0.1	3	0.03	3
Heptachlor epoxide	45	11	S314	VC0106	0.39	0.02	8.0E-04	11	13.1	0	0.1	6	0.03	10
Heptachlor and heptachlor epoxide	47	13	S309	VC0065	0.43	0.02	8.0E-04	13	13.1	0	0.1	8	0.03	12
4,4'-DDD	45	5	S304	VC0026	0.26	0.03	0.01	5					1	0
4,4'-DDE	38	11	S320	VC0154	0.22	0.03	0.01	11					1	0
4,4'-DDT	44	24	S313	VC0098	0.80	0.02	0.01	24	1,100	0	1	0	1	0

Table G2-2 (cont.)

Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Station ID (max. conc.)	Sample ID (max. conc.)	Maximum Normalized Concentration (mg/kg TOC)	Minimum Exceeded Normalized Concentration (mg/kg TOC)	NYSDEC HHB Criteria Value (mg/kg TOC)	NYSDEC HHB No. of Exceed-ances	NYSDEC ATBAL Criteria Value (mg/kg TOC)	NYSDEC ATBAL No. of Exceed-ances	NYSDEC CTBAL Criteria Value (mg/kg TOC)	NYSDEC CTBAL No. of Exceed-ances	NYSDEC WB Criteria Value (mg/kg TOC)	NYSDEC WB No. of Exceed-ances
Toxaphene	45	2	S308	VC0058	1.52	1.25	0.02	2	3.2	0	0.01	2		
Polychlorinated biphenyls	56	40	S327	SB0008	58.0	0.17	8.0E-03	40	2,760	0	19.3	7	1.4	33
Dioxins/Furans														
2,3,7,8-Tetra-chlorodibenzo-dioxin	12	7	S315	VC0114	3.5E-04	3.5E-04	0.01	0					2.0E-04	1
2,3,7,8-Tetra-chlorodibenzo-dioxin (TE	12	10	S315	VC0114	2.7E-03	2.2E-04	0.01						2.0E-04	7
Interval 200-300 cm														
Volatile Organic Compounds														
Benzene	18	15	S309	VC0066	68.6	0.68	0.6	8	103	0	28	3		
Toluene	18	11	S309	VC0066	301	56.0			235	1	49	4		
Ethylbenzene	18	12	S314	VC0107	134	45.7			212	0	24	4		
Xylene (Total)	18	13	S310	VC0075	1,250	415			833	2	92	4		
Chlorobenzene	18	9	S314	VC0107	126	37.7			34.6	5	3.5	5		
Semivolatile Organic Compounds														
1,2-Dichlorobenzene	23	3	S312	VC0091	653	20.8			120	2	12	3		
1,4-Dichlorobenzene	23	6	S312	VC0091	1,050	14.5			120	1	12	4		
Dichlorobenzene	23	8	S312	VC0091	1,710	23.1			120	2	12	4		
1,2,4-Trichlorobenzene	23	2	S312	VC0091	223	223			910	0	91	1		
Trichlorobenzene	23	2	S312	VC0091	223	223			910	0	91	1		
Vinyl chloride	18	1	S315	VC0115	0.08	0.08	0.07	1						
Hexachlorobenzene	23	1	S304	VC0027	16.2	16.2	0.15	1	9,080	0	5,570	0	12	1
Hexachlorobenzene (GC/ECD)	21	13	S304	VC0027	28.5	0.21	0.15	8	9,080	0	5,570	0	12	1
Naphthalene	23	12	S312	VC0091	4,270	68.6			258	5	30	8		
Acenaphthene	23	8	S314	VC0107	1,600	196				0	140	2		
Fluorene	23	10	S314	VC0107	925	8.96			73	4	8	8		
Phenanthrene	23	15	S314	VC0107	2,450	138					120	5		
Anthracene	23	10	S314	VC0107	1,090	167			986	1	107	2		
2-Methylnaphthalene	23	11	S314	VC0107	1,000	127			304	2	34	6		
Benzo(a)anthracene	23	13	S314	VC0107	189	13.2			94	2	12	8		
Chrysene	23	14	S314	VC0107	175	1.35	1.3	14						
Benzo(b)fluoranthene	23	11	S314	VC0107	66.0	2.55	1.3	9						
Benzo(k)fluoranthene	23	12	S314	VC0107	73.6	1.50	1.3	10						
Benzo(a)pyrene	23	10	S319	VC0147	74.7	2.66	1.3	9						
Indeno(1,2,3-cd)pyrene	23	8	S314	VC0107	32.1	1.66	1.3	8						
Phenol	23	4	S312	VC0091	149	21.5					0.5	4		0
Pesticides/Polychlorinated Biphenyls														
alpha-BHC	19	1	S312	VC0091	0.09	0.09	0.06	1	12.6	0	0.06	1	1.5	0
Hexachlorocyclohexanes	20	4	S312	VC0091	0.09	0.09	0.06	1	12.6	0	0.06	1	1.5	0
Aldrin and dieldrin	22	11	S314	VC0107	0.25	0.14	0.1	3					0.77	0
alpha-Chlordane	19	1	S315	VC0115	0.02	0.02	1.0E-03	1	1.4	0	0.03	0	6.0E-03	1
gamma-Chlordane	18	3	S305	VC0035	0.08	0.04	1.0E-03	3	1.4	0	0.03	3	6.0E-03	3
Chlordane	20	4	S305	VC0035	0.08	0.02	1.0E-03	4	1.4	0	0.03	3	6.0E-03	4
Dieldrin	22	11	S314	VC0107	0.25	0.14	0.1	3			9	0	0.77	0
Endosulfan I	19	1	S312	VC0091	0.09	0.09			0.78	0	0.03	1		
Endosulfan II	20	2	S311	VC0083	0.15	0.06			0.78	0	0.03	2		
Heptachlor	20	1	S312	VC0091	0.35	0.35	8.0E-04	1	13.1	0	0.1	1	0.03	1
Heptachlor epoxide	18	4	S314	VC0107	0.33	0.03	8.0E-04	4	13.1	0	0.1	1	0.03	4
Heptachlor and heptachlor epoxide	20	5	S312	VC0091	0.35	0.03	8.0E-04	5	13.1	0	0.1	2	0.03	5
Methoxychlor	20	3	S314	VC0107	1.85	1.85		0			0.6	1		
4,4'-DDD	18	5	S312	VC0091	0.43	0.07	0.01	5					1	0
4,4'-DDE	16	4	S312	VC0091	0.12	0.03	0.01	4					1	0
4,4'-DDT	18	10	S314	VC0107	1.36	0.04	0.01	10	1,100	0	1	1	1	1

Table G2-2 (cont.)

Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Station ID (max. conc.)	Sample ID (max. conc.)	Maximum Normalized Concentration (mg/kg TOC)	Minimum Exceeded Normalized Concentration (mg/kg TOC)	NYSDEC HHB Criteria Value (mg/kg TOC)	NYSDEC HHB No. of Exceed-ances	NYSDEC ATBAL Criteria Value (mg/kg TOC)	NYSDEC ATBAL No. of Exceed-ances	NYSDEC CTBAL Criteria Value (mg/kg TOC)	NYSDEC CTBAL No. of Exceed-ances	NYSDEC WB Criteria Value (mg/kg TOC)	NYSDEC WB No. of Exceed-ances
Toxaphene	19	1	S308	VC0059	1.40	1.40	0.02	1	3.2	0	0.01	1		
Polychlorinated biphenyls	23	12	S314	VC0107	19.8	0.24	8.0E-03	12	2,761	0	19.3	1	1.4	10
Dioxins/Furans														
2,3,7,8-Tetra-chlorodibenzo-dioxin (TE	6	5	S315	VC0115	2.0E-03	3.4E-04	0.01						0.0002	2
Interval 300-400 cm														
Volatile Organic Compounds														
Benzene	18	13	S312	VC0092	163	0.97	0.6	5	103	1	28	2		
Toluene	18	8	S310	VC0076	357	128			235	1	49	2		
Ethylbenzene	18	10	S312	VC0092	510	159			212	2	24	3		
Xylene (Total)	18	11	S312	VC0092	4,851	253			833	2	92	4		
Chlorobenzene	18	7	S310	VC0076	529	334			34.6	2	3.5	2		
Semivolatile Organic Compounds														
1,2-Dichlorobenzene	24	2	S312	VC0092	96.7	57.5			120	0	12	2		
1,4-Dichlorobenzene	24	3	S310	VC0076	128	21.1			120	1	12	2		
Dichlorobenzene	24	5	S310	VC0076	185	118			120	1	12	2		
Hexachlorobenzene (GC/ECD)	21	10	S312	VC0092	6.99	0.36	0.15	5	9,081	0	5,570	0	12	0
Naphthalene	24	10	S310	VC0076	4,603	48.4			258	4	30	7		
Acenaphthene	24	9	S320	VC0156	592	592					140	1		
Fluorene	24	7	S320	VC0156	292	10.5			73	5	8	7		
Phenanthrene	24	16	S320	VC0156	1,083	439					120	4		
Anthracene	24	12	S320	VC0156	350	151			986	0	107	3		
2-Methylnaphthalene	24	10	S320	VC0156	1,333	43.9			304	2	34	6		
Benzo(a)anthracene	24	11	S319	VC0148	198	19.6			94	3	12	6		
Chrysene	24	13	S319	VC0148	184	1.42	1.3	12						
Benzo(b)fluoranthene	24	11	S319	VC0148	75.1	1.40	1.3	11						
Benzo(k)fluoranthene	24	12	S319	VC0148	79.3	1.45	1.3	11						
Benzo(a)pyrene	24	10	S319	VC0148	170	1.51	1.3	10						
Indeno(1,2,3-cd)pyrene	24	9	S319	VC0148	66.6	1.74	1.3	9						
Phenol	24	4	S310	VC0076	158	7.19					0.5	4		
Pesticides/Polychlorinated Biphenyls														
beta-BHC	20	6	S305	VC0036	0.16	0.09	0.06	2	12.6	0	0.06	2	1.5	0
Hexachlorocyclohexanes	21	7	S305	VC0036	0.16	0.09	0.06	2	12.6	0	0.06	2	1.5	0
Aldrin and dieldrin	21	8	S305	VC0036	0.20	0.20	0.1	1					0.77	0
alpha-Chlordane	18	1	S310	VC0076	0.03	0.03	1.0E-03	1	1.4	0	0.03	1	6.0E-03	1
gamma-Chlordane	17	3	S305	VC0036	0.05	0.03	1.0E-03	3	1.4	0	0.03	2	6.0E-03	3
Chlordane	20	4	S305	VC0036	0.05	0.03	1.0E-03	4	1.4	0	0.03	3	6.0E-03	4
Dieldrin	21	8	S305	VC0036	0.17	0.17	0.1	1			9	0	0.77	0
Heptachlor	18	1	S310	VC0076	0.10	0.10	8.0E-04	1	13.1	0	0.1	1	0.03	1
Heptachlor epoxide	18	3	S302	VC0012	0.07	0.03	8.0E-04	3	13.1	0	0.1	0	0.03	2
Heptachlor and heptachlor epoxide	21	4	S310	VC0076	0.10	0.03	8.0E-04	4	13.1	0	0.1	1	0.03	3
4,4'-DDD	21	5	S305	VC0036	0.23	0.10	0.01	5					1	0
4,4'-DDE	17	2	S312	VC0092	0.08	0.05	0.01	2					1	0
4,4'-DDT	16	8	S314	VC0108	0.50	0.02	0.01	8	1,100	0	1	0	1	0
Polychlorinated biphenyls	24	9	S305	VC0036	32.6	0.21	8.0E-03	9	2,760	0	19.3	1	1.4	6
Dioxins/Furans														
2,3,7,8-Tetra-chlorodibenzo-dioxin (TE	6	6	S315	VC0116	1.5E-03	5.8E-04	0.01						0.0002	2
Interval 400-500 cm														
Volatile Organic Compounds														
Benzene	18	9	S312	VC0093	115	0.72	0.6	5	103	1	28	2		
Toluene	18	8	S310	VC0077	289	81.3			235	1	49	3		
Ethylbenzene	18	7	S312	VC0093	273	60.7			212	1	24	2		

Table G2-2 (cont.)

Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Station ID (max. conc.)	Sample ID (max. conc.)	Maximum Normalized Concentration (mg/kg TOC)	Minimum Exceeded Normalized Concentration (mg/kg TOC)	NYSDEC HHB Criteria Value (mg/kg TOC)	NYSDEC HHB No. of Exceed-ances	NYSDEC ATBAL Criteria Value (mg/kg TOC)	NYSDEC ATBAL No. of Exceed-ances	NYSDEC CTBAL Criteria Value (mg/kg TOC)	NYSDEC CTBAL No. of Exceed-ances	NYSDEC WB Criteria Value (mg/kg TOC)	NYSDEC WB No. of Exceed-ances
Xylene (Total)	18	7	S312	VC0093	2,240	262			833	2	92	3		
Chlorobenzene	18	5	S312	VC0093	171	154			34.6	2	3.5	2		
Semivolatile Organic Compounds														
1,2-Dichlorobenzene	23	3	S310	VC0077	118	14.3			120	0	12	3		
1,3-Dichlorobenzene	23	1	S313	VC0101	14.1	14.1			120	0	12	1		
1,4-Dichlorobenzene	23	3	S310	VC0077	139	54.5			120	1	12	3		
Dichlorobenzene	23	3	S310	VC0077	257	117			120	2	12	3		
Hexachlorobenzene (GC/ECD)	22	6	S305	VC0037	2.13	0.58	0.15	3	9,080	0	5,570	0	12	0
Naphthalene	23	10	S309	VC0068	6,910	37.8			258	4	30	6		
Acenaphthene	23	7	S309	VC0068	488	321					140	2		
Fluorene	23	9	S309	VC0068	715	8.68			73	2	8	7		
Phenanthrene	23	14	S309	VC0068	1,710	1,200					120	2		
Anthracene	23	8	S313	VC0101	361	317			986	0	107	2		
2-Methylnaphthalene	23	9	S309	VC0068	894	47.3			304	1	34	4		
Benzo(a)anthracene	23	10	S313	VC0101	382	12.1			94	2	12	6		
Chrysene	23	12	S313	VC0101	361	1.87	1.3	10						
Benzo(b)fluoranthene	23	9	S313	VC0101	221	2.20	1.3	8						
Benzo(k)fluoranthene	23	9	S313	VC0101	221	1.47	1.3	9						
Benzo(a)pyrene	23	10	S313	VC0101	261	1.34	1.3	9						
Indeno(1,2,3-cd)pyrene	23	8	S313	VC0101	147	1.57	1.3	8						
Phenol	23	4	S309	VC0068	504	13.6					0.5	4		
Pesticides/Polychlorinated Biphenyls														
beta-BHC	18	4	S314	VC0109	0.08	0.08	0.06	1	12.6	0	0.06	1	1.5	0
Hexachlorocyclohexanes	19	5	S314	VC0109	0.10	0.10	0.06	1	12.6	0	0.06	1	1.5	0
Aldrin	17	1	S314	VC0109	0.18	0.18	0.1	1					0.77	0
Aldrin and dieldrin	21	5	S314	VC0109	0.18	0.18	0.1	1					0.77	0
alpha-Chlordane	18	2	S315	VC0117	0.05	0.02	1.0E-03	2	1.4	0	0.03	1	6.0E-03	2
gamma-Chlordane	18	1	S305	VC0037	0.02	0.02	1.0E-03	1	1.4	0	0.03	0	6.0E-03	1
Chlordane	19	3	S315	VC0117	0.05	0.02	1.0E-03	3	1.4	0	0.03	1	6.0E-03	3
Heptachlor epoxide	16	1	S305	VC0037	0.03	0.03	8.0E-04	1	13.1	0	0.1	0	0.03	0
Heptachlor and heptachlor epoxide	18	1	S305	VC0037	0.03	0.03	8.0E-04	1	13.1	0	0.1	0	0.03	0
Methoxychlor	17	1	S309	VC0068	0.80	0.80					0.6	1		
4,4'-DDD	19	3	S312	VC0093	0.12	0.02	0.01	3					1	0
4,4'-DDE	18	2	S304	VC0029	0.05	0.03	0.01	2					1	0
4,4'-DDT	15	4	S314	VC0109	0.09	0.06	0.01	4	1,100	0	1	0	1	0
Polychlorinated biphenyls	23	5	S305	VC0037	7.28	0.62	8.0E-03	5	2,760	0	19.3	0	1.4	2
Dioxins/Furans														
2,3,7,8-Tetra-chlorodibenzo-dioxin (TE	6	4	S315	VC0117	4.8E-04	4.8E-04	0.01						2.0E-04	1
Interval 500-600 cm														
Volatile Organic Compounds														
Benzene	20	6	S312	VC0094	74.8	9.13	0.6	3	103	0	28	2		
Toluene	20	6	S312	VC0094	340	81.7			235	1	49	3		
Ethylbenzene	20	5	S312	VC0094	83.3	30.8			212	0	24	3		
Xylene (Total)	20	6	S312	VC0094	1,190	365			833	2	92	3		
Chlorobenzene	20	2	S312	VC0094	272	93.3			34.6	2	3.5	2		
Semivolatile Organic Compounds														
1,2-Dichlorobenzene	25	2	S310	VC0078	107	23.8			120	0	12	2		
1,4-Dichlorobenzene	25	2	S310	VC0078	160	52.7			120	1	12	2		
Dichlorobenzene	25	2	S310	VC0078	267	76.5			120	1	12	2		
Hexachlorobenzene (GC/ECD)	23	6	S310	VC0078	0.76	0.60	0.15	2	9,080	0	5,570	0	12	0
Naphthalene	25	9	S310	VC0078	1,730	66.3			258	3	30	4		

Table G2-2 (cont.)

Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Station ID (max. conc.)	Sample ID (max. conc.)	Maximum Normalized Concentration (mg/kg TOC)	Minimum Exceeded Normalized Concentration (mg/kg TOC)	NYSDEC HHB Criteria Value (mg/kg TOC)	NYSDEC HHB No. of Exceed-ances	NYSDEC ATBAL Criteria Value (mg/kg TOC)	NYSDEC ATBAL No. of Exceed-ances	NYSDEC CTBAL Criteria Value (mg/kg TOC)	NYSDEC CTBAL No. of Exceed-ances	NYSDEC WB Criteria Value (mg/kg TOC)	NYSDEC WB No. of Exceed-ances
Fluorene	25	9	S309	VC0069	154	11.6			73	1	8	5		
Phenanthrene	25	13	S309	VC0069	370	170					120	3		
2-Methylnaphthalene	25	9	S309	VC0069	207	85.0			304	0	34	4		
Benzo(a)anthracene	25	12	S309	VC0069	81.7	56.2			94	0	12	3		
Chrysene	25	11	S309	VC0069	86.5	1.54	1.3	10						
Benzo(b)fluoranthene	25	9	S309	VC0069	52.9	3.33	1.3	6						
Benzo(k)fluoranthene	25	9	S309	VC0069	52.9	3.11	1.3	6						
Benzo(a)pyrene	25	8	S309	VC0069	57.7	1.34	1.3	8						
Indeno(1,2,3-cd)pyrene	25	5	S309	VC0069	30.8	3.04	1.3	5						
Phenol	25	4	S310	VC0078	573	30.6					0.5	4		
Pesticides/Polychlorinated Biphenyls														
alpha-Chlordane	21	2	S312	VC0094	0.04	0.02	1.0E-03	2	1.4	0	0.03	1	6.0E-03	2
gamma-Chlordane	22	2	S312	VC0094	0.06	0.02	1.0E-03	2	1.4	0	0.03	1	6.0E-03	2
Chlordane	22	3	S312	VC0094	0.09	0.02	1.0E-03	3	1.4	0	0.03	1	6.0E-03	3
Endosulfan II	20	1	S310	VC0078	0.09	0.09			0.78	0	0.03	1		
Heptachlor epoxide	21	1	S312	VC0094	0.09	0.09	8.0E-04	1	13.1	0	0.1	0	0.03	1
Heptachlor and heptachlor epoxide	21	1	S312	VC0094	0.09	0.09	8.0E-04	1	13.1	0	0.1	0	0.03	1
4,4'-DDD	20	1	S312	VC0094	0.04	0.04	0.01	1					1	0
4,4'-DDE	20	1	S312	VC0094	0.15	0.15	0.01	1					1	0
4,4'-DDT	20	5	S314	VC0110	0.11	0.03	0.01	5	1,100	0	1	0	1	0
Polychlorinated biphenyls	25	6	S310	VC0078	6.93	0.13	8.0E-03	6	2,760	0	19.3	0	1.4	2
Interval 600-700 cm														
Volatile Organic Compounds														
Benzene	18	8	S310	VC0080	165	1.89	0.6	6	103	1	28	1		
Toluene	18	7	S310	VC0080	872	52.4			235	1	49	5		
Ethylbenzene	18	7	S310	VC0080	505	26.8			212	1	24	4		
Xylene (Total)	18	8	S310	VC0080	7,610	197			833	1	92	6		
Chlorobenzene	18	3	S310	VC0080	147	26.8			34.6	2	3.5	3		
Semivolatile Organic Compounds														
1,2-Dichlorobenzene	24	3	S314	VC0111	50.2	18.1			120	0	12	3		
1,3-Dichlorobenzene	24	1	S314	VC0111	57.4	57.4			120	0	12	1		
1,4-Dichlorobenzene	24	3	S314	VC0111	311	45.7			120	1	12	3		
Dichlorobenzene	24	3	S314	VC0111	419	63.8			120	1	12	3		
Hexachlorobenzene (GC/ECD)	22	6	S310	VC0080	2.29	0.40	0.15	2	9,080	0	5,570	0	12	0
Naphthalene	24	8	S310	VC0080	5,050	383			258	7	30	7		
Acenaphthene	24	4	S309	VC0070	480	480					140	1		
Fluorene	24	6	S310	VC0080	2,840	14.4			73	4	8	5		
Phenanthrene	24	11	S309	VC0070	2,020	170					120	3		
Anthracene	24	4	S309	VC0070	568	109			986	0	107	2		
2-Methylnaphthalene	24	8	S309	VC0070	758	50.2			304	3	34	7		
Benzo(a)anthracene	24	7	S309	VC0070	139	14.6			94	1	12	4		
Chrysene	24	8	S309	VC0070	126	2.19	1.3	8						
Benzo(b)fluoranthene	24	7	S309	VC0070	49.2	1.51	1.3	7						
Benzo(k)fluoranthene	24	7	S309	VC0070	42.9	2.54	1.3	6						
Benzo(a)pyrene	24	4	S309	VC0070	42.9	8.13	1.3	4						
Indeno(1,2,3-cd)pyrene	24	4	S309	VC0072	17.1	4.55	1.3	4						
Phenol	24	6	S310	VC0080	266	19.5					0.5	6		
Pesticides/Polychlorinated Biphenyls														
Aldrin	20	2	S309	VC0070	0.19	0.16	0.1	2					0.77	0
Aldrin and dieldrin	21	3	S309	VC0070	0.22	0.16	0.1	2					0.77	0
Heptachlor	20	1	S310	VC0080	2.56	2.56	8.0E-04	1	13.1	0	0.1	1	0.03	1

Table G2-2 (cont.)

Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Station ID (max. conc.)	Sample ID (max. conc.)	Maximum Normalized Concentration (mg/kg TOC)	Minimum Exceeded Normalized Concentration (mg/kg TOC)	NYSDEC HHB Criteria Value (mg/kg TOC)	NYSDEC HHB No. of Exceed-ances	NYSDEC ATBAL Criteria Value (mg/kg TOC)	NYSDEC ATBAL No. of Exceed-ances	NYSDEC CTBAL Criteria Value (mg/kg TOC)	NYSDEC CTBAL No. of Exceed-ances	NYSDEC WB Criteria Value (mg/kg TOC)	NYSDEC WB No. of Exceed-ances
Heptachlor epoxide	19	1	S304	VC0031	0.01	0.01	8.0E-04	1	13.1	0	0.1	0	0.03	0
Heptachlor and heptachlor epoxide	21	2	S310	VC0080	2.56	0.01	8.0E-04	2	13.1	0	0.1	1	0.03	1
Methoxychlor	18	1	S309	VC0072	0.99	0.99					0.6	1		
4,4'-DDD	19	1	S310	VC0079	0.06	0.06	0.01	1					1	0
4,4'-DDE	20	1	S312	VC0095	0.12	0.12	0.01	1					1	0
4,4'-DDT	17	3	S309	VC0070	0.15	0.04	0.01	3	1,100	0	1	0	1	0
Polychlorinated biphenyls	24	6	S310	VC0080	23.7	0.22	8.0E-03	6	2,760	0	19.3	1	1.4	2
Interval 700-800 cm														
Volatile Organic Compounds														
Benzene	12	2	S309	VC0209	0.71	0.71	0.6	1	103	0	28	0		
Semivolatile Organic Compounds														
Naphthalene	15	4	S309	VC0209	79.7	79.7			258	0	30	1		
Fluorene	15	4	S309	VC0209	19.7	9.0			73	0	8	2		
2-Methylnaphthalene	15	4	S309	VC0209	69.2	69.2			304	0	34	1		
Benzo(a)anthracene	15	5	S309	VC0209	25.2	15.1			94	0	12	2		
Chrysene	15	5	S309	VC0209	25.2	1.85	1.3	4						
Benzo(b)fluoranthene	15	4	S309	VC0209	9.64	2.12	1.3	3						
Benzo(k)fluoranthene	15	4	S309	VC0209	11.5	2.54	1.3	3						
Benzo(a)pyrene	15	4	S309	VC0209	25.2	1.33	1.3	4						
Indeno(1,2,3-cd)pyrene	15	3	S309	VC0209	7.55	2.12	1.3	3						
Phenol	15	3	S309	VC0210	55.1	1.51					0.5	3		
Pesticides/Polychlorinated Biphenyls														
Heptachlor epoxide	12	2	S302	VC0016	0.04	0.02	8.0E-04	2	13.1	0	0.1	0	0.03	1
Heptachlor and heptachlor epoxide	12	2	S302	VC0016	0.04	0.02	8.0E-04	2	13.1	0	0.1	0	0.03	1
4,4'-DDT	13	4	S314	VC0112	0.04	0.02	0.01	3	1,100	0	1	0	1	0
Polychlorinated biphenyls	15	2	S302	VC0016	3.78	0.44	8.0E-03	2	2,760	0	19.3	0	1.4	1

Notes: HHB – human health bioaccumulation
ATBAL – acute toxicity benthic aquatic life
CTBAL – chronic toxicity benthic aquatic life
WB – wildlife bioaccumulation

Table G2-3. Exceedance Summary for Inorganics in Lake Sediments Collected by PTI in 1992

Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Station ID (max. conc.)	Sample ID (max. conc.)	Maximum Concentration (mg/kg dry)	Minimum Exceeded Concentration (mg/kg dry)	NYSDEC LEL Criteria Value (mg/kg dry)	NYSDEC LEL No. of Exceed-ances	NYSDEC SEL Criteria Value (mg/kg dry)	NYSDEC SEL No. of Exceed-ances
Interval 0-30 cm										
Antimony	18	15	S27_PR	S00036	14.3	2.30	2	15	25	0
Arsenic	18	18	S53_PR	S00020	8.00	6.70	6	5	33	0
Cadmium	73	60	S15_PR	S00280	22.8	1.20	0.6	60	9	37
Chromium	73	73	S29_PR	S00273	1,190	37.2	26	60	110	51
Copper	73	73	S29_PR	S00273	226	18.0	16	64	110	40
Lead	73	73	S6_PR	S00004	1,170	47.8	31	61	110	54
Nickel	73	72	S29_PR	S00273	219	16.4	16	59	50	41
Silver	18	15	S51_PR	S00010	6.40	1.20	1	8	2.2	6
Total Mercury	73	65	S15_PR	S00041	43.8	0.18	0.15	65	1.3	58
Zinc	73	71	S15_PR	S00280	453	133	120	57	270	45
Interval 30-60 cm										
Antimony	18	16	S53_PR	S00021	15.4	3.70	2	16	25	0
Arsenic	18	17	S27_PR	S00037	9.90	6.10	6	5	33	0
Cadmium	73	62	S33_PR	S00320	53.6	0.75	0.6	61	9	46
Chromium	73	72	S38_PR	S00137	1,710	54.8	26	58	110	51
Copper	73	71	S30_PR	S00187	370	16.7	16	62	110	46
Iron	18	18	S16_PR	S00063	26,700	26,700	20,000	1	40,000	0
Lead	73	73	S38_PR	S00137	749	32.8	31	61	110	50
Nickel	73	70	S39_PR	S00267	232	20.4	16	60	50	48
Silver	18	11	S27_PR	S00037	13.6	2.20	1	7	2.2	6
Total Mercury	73	62	S83_PR	S00108	76.0	0.80	0.15	62	1.3	59
Zinc	73	71	S23_PR	S00126	686	123	120	57	270	42
Interval 60-90 cm										
Antimony	18	16	S113PR	S00031	18.0	3.70	2	16	25	0
Arsenic	18	17	S51_PR	S00012	11.0	6.40	6	4	33	0
Cadmium	73	57	S24_PR	S00183	55.9	0.64	0.6	55	9	19
Chromium	73	72	S24_PR	S00183	625	27.0	26	45	110	23
Copper	73	71	S25_PR	S00178	389	17.8	16	61	110	22
Iron	18	18	S90_PR	S00057	25,400	21,800	20,000	2	40,000	0
Lead	73	73	S24_PR	S00183	482	32.2	31	60	110	29
Manganese	18	18	S90_PR	S00057	602	602	460	1	1,100	0
Nickel	73	68	S24_PR	S00183	114	16.9	16	59	50	20
Silver	18	10	S27_PR	S00038	6.40	1.30	1	7	2.2	5
Total Mercury	73	56	S4_PR	S00337	71.0	0.21	0.15	56	1.3	39
Zinc	73	71	S25_PR	S00178	651	121	120	50	270	19
Interval 90-120 cm										
Antimony	4	3	S27_PR	S00039	10.4	6.90	2	3	25	0
Arsenic	4	4	S27_PR	S00039	9.80	9.80	6	1	33	0
Cadmium	47	31	S19_PR	S00175	85.8	0.80	0.6	31	9	7
Chromium	47	47	S19_PR	S00175	608	26.8	26	23	110	9
Copper	47	46	S19_PR	S00175	454	16.9	16	45	110	11
Iron	4	4	S51_PR/S90_PR	S00013/S00058	25,600	25,600	20,000	2	40,000	0
Lead	47	47	S15_PR	S00044	590	31.2	31	36	110	16
Manganese	4	4	S90_PR	S00058	899	807	460	2	1,100	0
Nickel	47	47	S19_PR	S00175	102	16.6	16	45	50	7
Silver	4	2	S27_PR	S00039	2.10	1.90	1	2	2.2	0
Total Mercury	47	35	S4_PR	S00338	60.9	0.20	0.15	34	1.3	26
Zinc	47	47	S19_PR	S00175	783	124	120	25	270	10
Interval 120-150 cm										
Antimony	2	2	S15_PR	S00045	7.20	7.10	2	2	25	0
Arsenic	2	2	S15_PR	S00045	6.70	6.70	6	1	33	0
Cadmium	26	20	S9_PR	S00300	22.1	0.65	0.6	20	9	2
Chromium	26	26	S8_PR	S00293	234	27.5	26	14	110	2
Copper	26	26	S8_PR/S9_PR	S00293/S00300	243	16.1	16	24	110	4
Iron	2	2	S27_PR	S00040	25,000	25,000	20,000	1	40,000	0
Lead	26	26	S9_PR	S00300	263	38.5	31	19	110	8
Nickel	26	26	S8_PR	S00293	72.2	17.1	16	24	50	4
Silver	2	1	S15_PR	S00045	2.20	2.20	1	1	2.2	0
Total Mercury	26	18	S15_PR	S00284	72.7	0.51	0.15	18	1.3	15
Zinc	26	26	S8_PR	S00293	476	124	120	12	270	4

Table G2-3. (cont.)

Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Station ID (max. conc.)	Sample ID (max. conc.)	Maximum Concentration (mg/kg dry)	Minimum Exceeded Concentration (mg/kg dry)	NYSDEC LEL Criteria Value (mg/kg dry)	NYSDEC LEL No. of Exceed-ances	NYSDEC SEL Criteria Value (mg/kg dry)	NYSDEC SEL No. of Exceed-ances
Interval 150-180 cm										
Cadmium	4	2	S15_PR	S00285	4.00	3.80	0.6	2	9	0
Chromium	4	4	S8_PR	S00294	63.3	46.3	26	2	110	0
Copper	4	4	S8_PR	S00294	142	22.4	16	4	110	1
Lead	4	4	S15_PR	S00285	208	176	31	2	110	2
Nickel	4	4	S15_PR	S00285	29.6	17.7	16	4	50	0
Total Mercury	4	4	S15_PR	S00285	62.6	0.19	0.15	3	1.3	2
Zinc	4	4	S8_PR	S00294	263	263	120	1	270	0
Interval 180-210 cm										
Cadmium	2	2	S15_PR	S00286	4.80	1.10	0.6	2	9	0
Chromium	2	2	S15_PR	S00286	67.4	67.4	26	1	110	0
Copper	2	2	S8_PR	S00295	135	77.6	16	2	110	1
Lead	2	2	S15_PR	S00286	325	206	31	2	110	2
Nickel	2	2	S15_PR	S00286	42.6	20.6	16	2	50	0
Total Mercury	2	2	S15_PR	S00286	60.7	3.60	0.15	2	1.3	2
Zinc	2	2	S8_PR	S00295	264	148	120	2	270	0

Notes: SEL - severe effects level
LEL - lowest effects level

Table G2-4. Exceedance Summary for Organic Compounds in Lake Sediments Collected by PTI in 1992

Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Station ID (max. conc.)	Sample ID (max. conc.)	Maximum Normalized Concentration (mg/kg TOC)	Minimum Exceeded Normalized Concentration (mg/kg TOC)	NYSDEC HHB Criteria Value (mg/kg TOC)	NYSDEC HHB No. of Exceed-ances	NYSDEC ATBAL Criteria Value (mg/kg TOC)	NYSDEC ATBAL No. of Exceed-ances	NYSDEC CTBAL Criteria Value (mg/kg TOC)	NYSDEC CTBAL No. of Exceed-ances	NYSDEC WB Criteria Value (mg/kg TOC)	NYSDEC WB No. of Exceed-ances
Interval 0-30 cm														
Volatile Organic Compounds														
Benzene	72	58	S20	S00017	781	0.611	0.6	32	103	7	28	8		
Toluene	72	43	S20	S00017	1,870	55.3			235	4	49	7		
Ethylbenzene	72	7	S20	S00017	1,420	145			212	2	24	4		
Xylene (Total)	72	46	S20	S00017	17,200	106			833	5	92	7		
Chlorobenzene	73	59	S15	S00041	8,710	3.93			34.6	11	3.5	20		
Semivolatile Organic Compounds														
1,2-Dichlorobenzene	73	48	S15	S00280	632	119			120	5	12	6		
1,3-Dichlorobenzene	73	38	S4	S00335	1,150	131			120	3	12	3		
1,4-Dichlorobenzene	73	57	S4	S00335	7,350	22.4			120	8	12	12		
Dichlorobenzene	73	58	S4	S00335	8,850	32.2			120	8	12	12		
1,2,3-Trichlorobenzene	55	6	S4	S00335	324	145			910	0	91	2		
1,2,4-Trichlorobenzene	73	38	S1	S00014	354	97.1			910	0	91	3		
1,3,5-Trichlorobenzene	55	8	S4	S00335	706	206			910	0	91	3		
Trichlorobenzene	73	42	S4	S00335	1,030	97.1			910	1	91	5		
1,2,4-Trimethylbenzene	1	1	S15	S00041	940	940			1,630	0	186	1		
Hexachlorobenzene	62	23	S3	S00340	645	0.154	0.15	15	9,080	0	5,570	0	12	6
Naphthalene	28	15	S20	S00017	5,310	38.9			258	5	30	13		
Acenaphthene	28	15	S6	S00004	2,220	193					140	3		
Fluorene	28	14	S36	S00007	8,900	8.57			73	7	8	12		
Phenanthrene	28	23	S36	S00007	25,000	168					120	8		
Anthracene	28	16	S36	S00007	5,800	235			986	2	107	3		
2-Methylnaphthalene	18	7	S36	S00007	1,000	108			304	3	34	6		
Fluoranthene	28	23	S36	S00007	35,000	1,040				0	1,020	4		
Pyrene	28	24	S36	S00007	49,000	5,000			8,780	1	961	2		
Benzo(a)anthracene	28	20	S36	S00007	31,000	13.3			94	4	12	12		
Chrysene	28	22	S36	S00007	34,000	2.47	1.3	22						
Benzo(b)fluoranthene	28	20	S36	S00007	46,000	3.65	1.3	20						
Benzo(k)fluoranthene	28	10	S8	S00289	46.2	3.33	1.3	10						
Benzo(a)pyrene	28	19	S36	S00007	31,000	2.24	1.3	19						
Indeno(1,2,3-cd)pyrene	28	13	S36	S00007	14,000	1.86	1.3	13						
Phenol	18	1	S53	S00020	18.5	18.5					0.5	1		
Pesticides/Polychlorinated Biphenyls														
beta-BHC	18	2	S1	S00014	6.83	0.72	0.06	2	12.6	0	0.06	2	1.5	1
Hexachlorocyclohexanes	18	2	S1	S00014	6.83	0.72	0.06	2	12.6	0	0.06	2	1.5	1
Heptachlor	18	1	S20	S00017	0.95	0.95	8.0E-04	1	13.1	0	0.1	1	0.03	1
Heptachlor and heptachlor epoxide	18	1	S20	S00017	0.95	0.95	8.0E-04	1	13.1	0	0.1	1	0.03	1
4,4'-DDE	18	3	S20	S00017	1.22	0.39	0.01	3					1	1
Polychlorinated biphenyls	73	60	S3	S00340	194	3.05	8.0E-03	60	2,760	0	19.3	39	1.4	60
Interval 30-60 cm														
Volatile Organic Compounds														
Benzene	71	51	S53	S00021	1,070	0.70	0.6	28	103	7	28	10		0
Toluene	71	39	S20	S00018	1,720	201			235	6	49	9		0
Ethylbenzene	71	11	S20	S00018	844	28.6			212	2	24	7		0
Xylene (Total)	71	48	S20	S00018	11,800	143			833	8	92	11		0
Chlorobenzene	72	52	S15	S00042	6,818	3.50			34.6	17	3.5	27		0

Table G2-4. (cont.)

Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Station ID (max. conc.)	Sample ID (max. conc.)	Maximum Normalized Concentration (mg/kg TOC)	Minimum Exceeded Normalized Concentration (mg/kg TOC)	NYSDEC HHB Criteria Value (mg/kg TOC)	NYSDEC HHB No. of Exceed-ances	NYSDEC ATBAL Criteria Value (mg/kg TOC)	NYSDEC ATBAL No. of Exceed-ances	NYSDEC CTBAL Criteria Value (mg/kg TOC)	NYSDEC CTBAL No. of Exceed-ances	NYSDEC WB Criteria Value (mg/kg TOC)	NYSDEC WB No. of Exceed-ances
Semivolatile Organic Compounds														
1,2-Dichlorobenzene	72	40	S15	S00281	9,000	20.7			120	7	12	15		0
1,3-Dichlorobenzene	72	23	S4	S00336	1,209	22.7			120	4	12	7		0
1,4-Dichlorobenzene	72	47	S15	S00281	25,333	31.1			120	10	12	18		0
Dichlorobenzene	72	49	S15	S00281	35,067	31.1			120	11	12	18		0
1,2,3-Trichlorobenzene	54	7	S15	S00281	2,233	667			910	1	91	3		0
1,2,4-Trichlorobenzene	72	33	S1	S00015	693	134			910	0	91	3		0
1,3,5-Trichlorobenzene	54	15	S4	S00336	4,720	110			910	4	91	5		0
Trichlorobenzene	72	38	S4	S00336	5,605	116			910	4	91	8		0
1,2,4-Trimethylbenzene	1	1	S20	S00018	656	656			1,631	0	186	1		0
Hexachlorobenzene	62	35	S3	S00341	430	0.16	0.15	26	9,081	0	5,570	0	12	6
Naphthalene	28	12	S29	S00274	16,496	48.3			258	8	30	10		
Acenaphthene	28	10	S6	S00005	1,460	159					140	4		
Fluorene	28	17	S1	S00015	3,285	13.5			73	7	8	14		
Phenanthrene	28	21	S6	S00005	5,200	162					120	9		
Anthracene	28	15	S6	S00005	2,600	523			986	1	107	4		
2-Methylnaphthalene	18	7	S6	S00005	860	245			304	4	34	6		
Fluoranthene	28	22	S18	S00170	7,843	2,714					1,020	4		
Pyrene	28	22	S6	S00005	4,600	4,600			8,775	0	961	1		
Benzo(a)anthracene	28	14	S6	S00005	3,000	14.1			94	5	12	14		
Chrysene	28	18	S6	S00005	2,200	4.50	1.3	18						
Benzo(b)fluoranthene	28	18	S6	S00005	3,800	2.57	1.3	18						
Benzo(k)fluoranthene	28	8	S29	S00274	124	6.00	1.3	8						
Benzo(a)pyrene	28	16	S6	S00005	2,600	7.17	1.3	16						
Indeno(1,2,3-cd)pyrene	28	12	S6	S00005	1,120	3.33	1.3	12						
Phenol	18	3	S20	S00018	188	26.7					0.5	3		
Pesticides/Polychlorinated Biphenyls														
beta-BHC	18	2	S1	S00015	2.81	2.17	0.06	2	12.6	0	0.06	2	1.5	2
Hexachlorocyclohexanes	18	2	S1	S00015	2.81	2.17	0.06	2	12.6	0	0.06	2	1.5	2
Endosulfan I	18	1	S81	S00024	0.72	0.72			0.78	0	0.03	1		
4,4'-DDE	18	3	S16	S00063	0.60	0.32	0.01	3					1	0
Polychlorinated biphenyls	73	59	S3	S00341	547	4.06	0.008	59	2,761	0	19.3	41	1.4	59
Interval 60-90 cm														
Volatile Organic Compounds														
Benzene	71	34	S15	S00043	1,625	0.65	0.6	22	103	8	28	14		
Toluene	71	39	S15	S00043	1,375	73.7			235	7	49	11		
Ethylbenzene	71	17	S29	S00275	491	27.5			212	6	24	11		
Xylene (Total)	71	37	S15	S00043	7,250	127			833	11	92	17		
Chlorobenzene	72	28	S15	S00043	27,500	4.47			34.6	15	3.5	18		
Semivolatile Organic Compounds														
1,2-Dichlorobenzene	72	23	S15	S00043	13,750	17.6			120	10	12	14		0
1,3-Dichlorobenzene	72	11	S15	S00282	942	25.6			120	4	12	8		0
1,4-Dichlorobenzene	72	23	S15	S00282	16,667	48.8			120	11	12	16		0
Dichlorobenzene	72	25	S15	S00043	28,750	68.7			120	11	12	16		0
1,2,3-Trichlorobenzene	54	8	S15	S00282	870	91.7			910	0	91	5		0
1,2,4-Trichlorobenzene	72	13	S15	S00043	7,000	136			910	1	91	3		0
1,3,5-Trichlorobenzene	54	11	S15	S00282	2,645	132			910	3	91	7		0
Trichlorobenzene	72	19	S15	S00043	7,000	132			910	4	91	10		
Hexachlorobenzene	62	26	S4	S00337	511	0.16	0.15	21	9,081	0	5,570	0	12	6
Naphthalene	28	15	S29	S00275	28,125	45.3			258	9	30	15		
Acenaphthene	28	7	S8	S00291	756	241					140	2		
Fluorene	28	17	S29	S00275	4,196	8.17			73	9	8	17		

Table G2-4. (cont.)

Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Station ID (max. conc.)	Sample ID (max. conc.)	Maximum Normalized Concentration (mg/kg TOC)	Minimum Exceeded Normalized Concentration (mg/kg TOC)	NYSDEC HHB Criteria Value (mg/kg TOC)	NYSDEC HHB No. of Exceed-ances	NYSDEC ATBAL Criteria Value (mg/kg TOC)	NYSDEC ATBAL No. of Exceed-ances	NYSDEC CTBAL Criteria Value (mg/kg TOC)	NYSDEC CTBAL No. of Exceed-ances	NYSDEC WB Criteria Value (mg/kg TOC)	NYSDEC WB No. of Exceed-ances
Phenanthrene	28	21	S29	S00275	7,143	121					120	12		
Anthracene	28	13	S29	S00275	2,277	129			986	1	107	5		
2-Methylnaphthalene	18	7	S15	S00043	1,250	39.7			304	2	34	7		
Fluoranthene	28	19	S29	S00275	11,607	1,133					1,020	4		
Pyrene	28	21	S29	S00275	3,259	3,259			8,775	0	961	1		
Benzo(a)anthracene	28	17	S29	S00275	1,786	18.3			94	3	12	15		
Chrysene	28	18	S29	S00275	2,634	1.88	1.3	18						
Benzo(b)fluoranthene	28	15	S29	S00275	1,920	3.00	1.3	15						
Benzo(k)fluoranthene	28	9	S29	S00275	893	10.0	1.3	9						
Benzo(a)pyrene	28	19	S18	S00171	1,075	2.16	1.3	19						
Indeno(1,2,3-cd)pyrene	28	10	S29	S00275	420	3.19	1.3	10						
Phenol	18	4	S15	S00043	1,100	50.0					0.5	4		
Pesticides/Polychlorinated Biphenyls														
beta-BHC	18	2	S1	S00016	1.49	0.21	0.06	2	12.6	0	0.06	2	1.5	0
Hexachlorocyclohexanes	18	2	S1	S00016	1.49	0.21	0.06	2	12.6	0	0.06	2	1.5	0
gamma-Chlordane	18	1	S27	S00038	0.43	0.43	1.0E-03	1	1.4	0	0.03	1	6.0E-03	1
Chlordane	18	1	S27	S00038	0.43	0.43	1.0E-03	1	1.4	0	0.03	1	6.0E-03	1
4,4'-DDE	18	4	S15	S00043	1.25	0.23	0.01	4				0	1	1
Polychlorinated biphenyls	73	34	S15	S00043	155	1.54	8.0E-03	34	2,761	0	19.3	20	1.4	34
Interval 90-120 cm														
Volatile Organic Compounds														
Benzene	47	21	S15	S00044	4,500	5.00	0.6	13	103	5	28	10		
Toluene	47	26	S15	S00044	3,000	75.7			235	6	49	8		
Ethylbenzene	47	12	S15	S00044	975	53.6			212	3	24	8		
Xylene (Total)	47	26	S15	S00044	21,250	199			833	7	92	12		
Chlorobenzene	47	15	S15	S00044	37,500	23.2			34.6	11	3.5	12		
Semivolatile Organic Compounds														
1,2-Dichlorobenzene	47	14	S15	S00044	47,500	16.5			120	8	12	12		
1,3-Dichlorobenzene	47	8	S15	S00283	923	28.0			120	2	12	6		
1,4-Dichlorobenzene	47	15	S15	S00044	45,000	22.7			120	10	12	13		
Dichlorobenzene	47	17	S15	S00044	92,500	22.7			120	11	12	13		
1,2,3-Trichlorobenzene	43	9	S29	S00276	317	130			910	0	91	4		
1,2,4-Trichlorobenzene	47	4	S15	S00044	35,000	35,000			910	1	91	1		
1,3,5-Trichlorobenzene	43	7	S15	S00283	4,231	168			910	2	91	4		
Trichlorobenzene	47	13	S15	S00044	35,000	233			910	4	91	7		
Hexachlorobenzene	43	15	S83	S00110	203	0.21	0.15	14	9,081	0	5,570	0	12	4
Naphthalene	12	8	S29	S00276	37,826	156			258	7	30	8		
Acenaphthene	12	4	S25	S00179	895	292					140	2		
Fluorene	12	9	S29	S00276	2,913	56.3			73	8	8	9		
Phenanthrene	12	10	S29	S00276	7,391	155					120	10		
Anthracene	12	9	S29	S00276	1,826	122			986	1	107	8		
2-Methylnaphthalene	4	2	S15	S00044	2,500	81.3			304	1	34	2		
Fluoranthene	12	9	S25	S00179	2,556	2,063					1,020	3		
Pyrene	12	10	S29	S00276	9,565	9,565			8,775	1	961	1		
Benzo(a)anthracene	12	10	S29	S00276	9,565	62.8			94	6	12	9		
Chrysene	12	10	S29	S00276	1,261	53.8	1.3	9						
Benzo(b)fluoranthene	12	9	S29	S00276	609	2.12	1.3	9						
Benzo(k)fluoranthene	12	5	S29	S00276	826	26.2	1.3	5						
Benzo(a)pyrene	12	11	S29	S00276	696	1.30	1.3	11						
Indeno(1,2,3-cd)pyrene	12	4	S25	S00179	109	40.6	1.3	4						
Phenol	4	1	S15	S00044	3,500	3,500					0.5	1		

Table G2-4. (cont.)

Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Station ID (max. conc.)	Sample ID (max. conc.)	Maximum Normalized Concentration (mg/kg TOC)	Minimum Exceeded Normalized Concentration (mg/kg TOC)	NYSDEC HHB Criteria Value (mg/kg TOC)	NYSDEC HHB No. of Exceed-ances	NYSDEC ATBAL Criteria Value (mg/kg TOC)	NYSDEC ATBAL No. of Exceed-ances	NYSDEC CTBAL Criteria Value (mg/kg TOC)	NYSDEC CTBAL No. of Exceed-ances	NYSDEC WB Criteria Value (mg/kg TOC)	NYSDEC WB No. of Exceed-ances
Pesticides/Polychlorinated Biphenyls														
beta-BHC	4	1	S15	S00044	11.3	11.3	0.06	1	12.6	0	0.06	1	1.5	1
Hexachlorocyclohexanes	4	1	S15	S00044	11.3	11.3	0.06	1	12.6	0	0.06	1	1.5	1
Heptachlor	4	1	S15	S00044	1.20	1.20	8.0E-04	1	13.1	0	0.1	1	0.03	1
Heptachlor and heptachlor epoxide	4	1	S15	S00044	1.20	1.20	8.0E-04	1	13.1	0	0.1	1	0.03	1
4,4'-DDE	4	1	S15	S00044	2.75	2.75	0.01	1					1	1
Polychlorinated biphenyls	47	19	S83	S00110	267	2.21	8.0E-03	19	2,761	0	19.3	12	1.4	19
Interval 120-150 cm														
Volatile Organic Compounds														
Benzene	26	17	S15	S00045	1,478	1.02	0.6	13	103	8	28	9		
Toluene	26	16	S24	S00185	744	160			235	6	49	7		
Ethylbenzene	26	4	S15	S00045	174	135			212	0	24	2		
Xylene (Total)	26	16	S22	S00134	4,889	628			833	8	92	9		
Chlorobenzene	26	15	S15	S00284	11,468	41.4			34.6	9	3.5	9		
Semivolatile Organic Compounds														
1,2-Dichlorobenzene	26	10	S15	S00284	10,092	37.6			120	7	12	8		
1,3-Dichlorobenzene	26	6	S3	S00344	460	316			120	2	12	2		
1,4-Dichlorobenzene	26	15	S15	S00284	25,229	63.9			120	7	12	9		
Dichlorobenzene	26	15	S15	S00284	35,321	87.8			120	7	12	9		
1,2,3-Trichlorobenzene	24	3	S15	S00284	1,835	372			910	1	91	2		
1,2,4-Trichlorobenzene	26	2	S15	S00045	435	435			910	0	91	1		
1,3,5-Trichlorobenzene	24	4	S15	S00284	3,394	933			910	3	91	3		
Trichlorobenzene	26	6	S15	S00284	5,229	435			910	3	91	4		
Hexachlorobenzene	26	10	S83	S00111	275	0.20	0.15	10	9,081	0	5,570	0	12	4
Naphthalene	9	8	S29	S00277	14,400	177			258	5	30	7		
Acenaphthene	9	6	S29	S00277	6,400	294					140	3		
Fluorene	9	6	S29	S00277	3,880	72.5			73	4	8	5		
Phenanthrene	9	8	S29	S00277	7,200	198					120	6		
Anthracene	9	7	S29	S00277	2,160	165			986	1	107	5		
2-Methylnaphthalene	2	2	S15	S00045	478	478			304	1	34	1		
Fluoranthene	9	7	S29	S00277	7,200	1,511					1,020	3		
Pyrene	9	7	S29	S00277	3,800	3,800			8,775	0	961	1		
Benzo(a)anthracene	9	6	S29	S00277	1,440	22.3			94	4	12	6		
Chrysene	9	8	S29	S00277	2,360	13.6	1.3	8						
Benzo(b)fluoranthene	9	5	S29	S00277	3,240	24.5	1.3	5						
Benzo(k)fluoranthene	9	4	S30	S00190	105	24.0	1.3	4						
Benzo(a)pyrene	9	6	S29	S00277	600	20.9	1.3	6						
Indeno(1,2,3-cd)pyrene	9	7	S30	S00190	1,541	11.5	1.3	7						
Phenol	2	1	S15	S00045	478	478					0.5	1		
Pesticides/Polychlorinated Biphenyls														
Polychlorinated biphenyls	26	12	S83	S00111	258	5.00	0.008	12	2,761	0	19.3	9	1.4	12
Interval 150-180 cm														
Volatile Organic Compounds														
Benzene	3	1	S15	S00285	788	788	0.6	1	103	1	28	1		
Xylene (Total)	3	1	S15	S00285	2,182	2,182			833	1	92	1		
Chlorobenzene	3	2	S15	S00285	10,303	10,303			34.6	1	3.5	1		
Semivolatile Organic Compounds														
1,2-Dichlorobenzene	3	1	S15	S00285	18,788	18,788			120	1	12	1		
1,4-Dichlorobenzene	3	2	S15	S00285	43,030	43,030			120	1	12	1		
Dichlorobenzene	3	2	S15	S00285	61,818	61,818			120	1	12	1		
1,2,3-Trichlorobenzene	3	1	S15	S00285	14,545	14,545			910	1	91	1		

Table G2-4. (cont.)

Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Station ID (max. conc.)	Sample ID (max. conc.)	Maximum Normalized Concentration (mg/kg TOC)	Minimum Exceeded Normalized Concentration (mg/kg TOC)	NYSDEC HHB Criteria Value (mg/kg TOC)	NYSDEC HHB No. of Exceed-ances	NYSDEC ATBAL Criteria Value (mg/kg TOC)	NYSDEC ATBAL No. of Exceed-ances	NYSDEC CTBAL Criteria Value (mg/kg TOC)	NYSDEC CTBAL No. of Exceed-ances	NYSDEC WB Criteria Value (mg/kg TOC)	NYSDEC WB No. of Exceed-ances
1,3,5-Trichlorobenzene	3	1	S15	S00285	66,667	66,667			910	1	91	1		
Trichlorobenzene	3	1	S15	S00285	81,212	81,212			910	1	91	1		
Hexachlorobenzene	3	1	S15	S00285	78.8	78.8	0.15	1	9,081	0	5,570	0	12	1
Pesticides/Polychlorinated Biphenyls														
Polychlorinated biphenyls	3	1	S15	S00285	68.5	68.5	0.008	1	2,761	0	19.3	1	1.4	1
Interval 180-210 cm														
Volatile Organic Compounds														
Benzene	2	1	S15	S00286	640	640	0.6	1	103	1	28	1		
Toluene	2	2	S15	S00286	680	680			235	1	49	1		
Ethylbenzene	2	1	S8	S00295	70.0	70.0			212	0	24	1		
Xylene (Total)	2	1	S15	S00286	1,720	1,720			833	1	92	1		
Chlorobenzene	2	1	S15	S00286	2,880	2,880			34.6	1	3.5	1		
Semivolatile Organic Compounds														
1,2-Dichlorobenzene	2	1	S15	S00286	6,400	6,400			120	1	12	1		
1,4-Dichlorobenzene	2	1	S15	S00286	12,000	12,000			120	1	12	1		
Dichlorobenzene	2	1	S15	S00286	18,400	18,400			120	1	12	1		
1,3,5-Trichlorobenzene	2	1	S15	S00286	6,400	6,400			910	1	91	1		
Trichlorobenzene	2	1	S15	S00286	6,400	6,400			910	1	91	1		
Hexachlorobenzene	2	2	S15	S00286	76.0	0.39	0.15	2	9,081	0	5,570	0	12	1
Naphthalene	1	1	S8	S00295	2,058	2,058			258	1	30	1		
Acenaphthene	1	1	S8	S00295	358	358					140	1		
Fluorene	1	1	S8	S00295	354	354			73	1	8	1		
Phenanthrene	1	1	S8	S00295	1,070	1,070					120	1		
Anthracene	1	1	S8	S00295	453	453			986	0	107	1		
Fluoranthene	1	1	S8	S00295	2,922	2,922					1,020	1		
Benzo(a)anthracene	1	1	S8	S00295	407	407			94	1	12	1		
Chrysene	1	1	S8	S00295	617	617	1.3	1						
Benzo(k)fluoranthene	1	1	S8	S00295	140	140	1.3	1						
Benzo(a)pyrene	1	1	S8	S00295	247	247	1.3	1						
Indeno(1,2,3-cd)pyrene	1	1	S8	S00295	115	115	1.3	1						
Pesticides/Polychlorinated Biphenyls														
Polychlorinated biphenyls	2	1	S15	S00286	23.2	23.2	8.0E-03	1	2,761	0	19.3	1	1.4	1

Notes: HHB - human health bioaccumulation
ATBAL - acute toxicity benthic aquatic life
CTBAL - chronic toxicity benthic aquatic life
WB - wildlife bioaccumulation

Table G2-5. Exceedance Summary for Inorganics in Lake Surface Sediments (0-2 cm) Collected by PTI in 1992

Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Station ID (max. conc.)	Sample ID (max. conc.)	Maximum Concentration (mg/kg dry)	Minimum Exceeded Concentration (mg/kg dry)	NYSDEC LEL Criteria Value (mg/kg dry)	NYSDEC LEL No. of Exceed-ances	NYSDEC SEL Criteria Value (mg/kg dry)	NYSDEC SEL No. of Exceed-ances
Antimony	19	5	S10_SU/S81_SU	S00572/S00520	6.40	3.10	2	5	25	0
Arsenic	19	19	S36_SU	S00532	11.2	11.2	6	1	33	0
Cadmium	114	105	S55_SU	S00515	14.2	0.62	0.6	101	9	1
Chromium	114	114	S28_SU	S00533	1,990	27.1	26	88	110	11
Copper	114	111	S28_SU	S00533	173	16.2	16	91	110	3
Iron	19	19	S36_SU	S00532	34,200	34,200	20,000	1	40,000	0
Lead	114	114	S36_SU	S00532	251	31.2	31	72	110	8
Manganese	19	19	S36_SU	S00532	508	508	460	1	1,100	0
Nickel	114	109	S28_SU	S00533	650	16.9	16	68	50	6
Silver	19	14	S22_SU	S00559	5.10	1.20	1	7	2.2	3
Total Mercury	114	112	S15_SU	S00612	68.9	0.17	0.15	111	1.3	78
Zinc	114	114	S2_SU	S00546	276	124	120	58	270	1

Notes: SEL – severe effects level
LEL – lowest effects level

Table G2-6. Exceedance Summary for Organic Compounds in Lake Surface Sediments (0-2 cm) Collected by PTI in 1992

Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Station ID (max. conc.)	Sample ID (max. conc.)	Maximum Normalized Concentration (mg/kg TOC)	Minimum Exceeded Normalized Concentration (mg/kg TOC)	NYSDEC HHB Criteria Value (mg/kg TOC)	NYSDEC HHB No. of Exceed-ances	NYSDEC ATBAL Criteria Value (mg/kg TOC)	NYSDEC ATBAL No. of Exceed-ances	NYSDEC CTBAL Criteria Value (mg/kg TOC)	NYSDEC CTBAL No. of Exceed-ances	NYSDEC WB Criteria Value (mg/kg TOC)	NYSDEC WB No. of Exceed-ances
Volatile Organic Compounds														
Benzene	114	38	S54	S00514	883	0.64	0.6	21	103	4	28	6		
Toluene	114	71	S14	S00542	261	58.5			235	1	49	4		
Ethylbenzene	114	2	S20	S00560	100	100			212	0	24	1		
Xylene (Total)	114	5	S20	S00560	1,000	174			833	1	92	2		
Chlorobenzene	114	36	S15	S00612	2,263	3.85			34.6	8	3.5	15		
Semivolatile Organic Compounds														
1,2-Dichlorobenzene	114	14	S14	S00542	491	20.0			120	3	12	6		
1,3-Dichlorobenzene	114	6	S15	S00612	358	68.4			120	1	12	3		
1,4-Dichlorobenzene	114	37	S21	S00540	965	18.6			120	6	12	12		
Dichlorobenzene	114	37	S21	S00540	1,270	22.8			120	6	12	12		
1,3,5-Trichlorobenzene	98	3	S14	S00542	261	114			910	0	91	2		
Trichlorobenzene	117	6	S14	S00542	261	114			910	0	91	2		
Hexachlorobenzene	86	37	S21	S00540	105	0.15	0.15	27	9,081	0	5,570	0	12	2
Naphthalene	79	38	S14	S00542	1,863	33.8			258	6	30	28		
Acenaphthene	79	33	S7	S00555	3,191	161					140	3		
Fluorene	79	44	S7	S00555	553	8.09			73	7	8	24		
Phenanthrene	79	63	S10	S00572	1,404	126					120	9		
Anthracene	79	58	S7	S00555	851	153			986	0	107	8		
2-Methylnaphthalene	19	5	S20	S00560	285	54.4			304	0	34	3		
Fluoranthene	79	72	S7	S00555	18,298	1,217					1,020	6		
Pyrene	79	66	S7	S00555	2,021	1,491			8,775	0	961	2		
Benzo(a)anthracene	79	64	S7	S00555	915	12.1			94	10	12	39		
Chrysene	79	62	S7	S00555	979	1.49	1.3	62						
Benzo(b)fluoranthene	79	61	S13	S00565	1,318	5.71	1.3	61						
Benzo(k)fluoranthene	79	47	S7	S00555	532	1.67	1.3	47						
Benzo(a)pyrene	79	62	S10	S00572	684	1.80	1.3	62						
Indeno(1,2,3-cd)pyrene	79	42	S10	S00572	167	2.08	1.3	42						
Phenol	19	2	S53	S00529	9.00	5.63					0.5	2		
Pesticides/Polychlorinated Biphenyls														
alpha-Chlordane	19	1	S1	S00556	0.36	0.36	1.0E-03	1	1.4	0	0.03	1	6.0E-03	1
Chlordane	19	1	S1	S00556	0.36	0.36	1.0E-03	1	1.4	0	0.03	1	6.0E-03	1
4,4'-DDD	19	4	S20	S00560	3.62	0.39	0.01	4					1	2
Polychlorinated biphenyls	114	62	S28	S00533	91.3	0.97	8.0E-03	62	2,761	0	19.3	13	1.4	55

Notes: ATBAL – acute toxicity benthic aquatic life
CTBAL – chronic toxicity benthic aquatic life
HHB – human health bioaccumulation
WB – wildlife bioaccumulation

Table G2-7. Exceedance Summary for Inorganics in Lake Stratigraphy Sediments Collected by PTI in 1992

Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Station ID (max. exceeded conc.)	Sample ID (max. exceeded conc.)	Maximum Exceeded Concentration (mg/kg dry)	Minimum Exceeded Concentration (mg/kg dry)	NYSDEC LEL Criteria Value (mg/kg dry)	NYSDEC LEL No. of Exceed-ances	NYSDEC SEL Criteria Value (mg/kg dry)	NYSDEC SEL No. of Exceed-ances
Interval 0-2 cm										
Cadmium	4	3	S12_ST	S00966	6.30	3.40	0.6	2	9	0
Chromium	4	4	S12_ST	S00966	85.1	39.1	26	3	110	0
Copper	4	2	S12_ST	S00966	81.5	43.8	16	2	110	0
Lead	4	4	S12_ST	S00966	120	47.0	31	3	110	1
Nickel	4	2	S12_ST	S00966	26.3	22.4	16	2	50	0
Total Mercury	4	1	S51_ST	S00800	1.80	1.80	0.15	1	1.3	1
Zinc	4	4	S12_ST	S00966	259	158	120	3	270	0
Interval 0-15 cm										
Cadmium	20	12	S12_ST	S00967	12.8	1.20	0.6	11	9	3
Chromium	20	20	S51_ST	S00805	292	40.5	26	12	110	5
Copper	20	15	S51_ST	S00805	170	39.2	16	12	110	3
Lead	20	20	S12_ST	S00967	235	37.6	31	12	110	5
Nickel	20	18	S51_ST	S00805	80.2	16.9	16	12	50	4
Total Mercury	20	14	S51_ST	S00801	4.40	0.62	0.15	14	1.3	6
Zinc	20	16	S51_ST	S00805	597	138	120	11	270	4
Interval 15-30 cm										
Cadmium	15	10	S51_ST	S00811	36.5	12.3	0.6	9	9	9
Chromium	15	14	S51_ST	S00811	749	197	26	9	110	9
Copper	15	12	S51_ST	S00811	273	18.8	16	10	110	9
Lead	15	14	S51_ST	S00809	306	141	31	9	110	9
Nickel	15	12	S51_ST	S00811	221	42.1	16	9	50	8
Total Mercury	15	9	S90_ST	S00863	70.1	0.52	0.15	9	1.3	7
Zinc	15	13	S51_ST	S00809	576	343	120	9	270	9
Interval 30-100 cm										
Cadmium	36	25	S12_ST	S00991	49.9	0.63	0.6	22	9	14
Chromium	36	35	S51_ST	S00815	646	26.4	26	17	110	14
Copper	36	30	S51_ST	S00815	374	18.6	16	30	110	13
Lead	36	36	S12_ST	S00979	314	44.8	31	29	110	15
Nickel	36	32	S90_ST	S00871	149	18.5	16	25	50	13
Total Mercury	36	24	S51_ST	S00815	41.8	0.20	0.15	24	1.3	16
Zinc	36	30	S12_ST	S00979	609	141	120	19	270	14
Interval 100-200 cm										
Cadmium	25	10	S12_ST	S00997	65.3	0.73	0.6	9	9	3
Chromium	25	25	S12_ST	S01000	535	36.4	26	4	110	3
Copper	25	21	S12_ST	S01000	435	16.2	16	12	110	4
Lead	25	25	S12_ST	S01000	254	37.7	31	11	110	9
Nickel	25	24	S12_ST	S01000	108	17.0	16	12	50	2
Total Mercury	25	8	S85_ST	S00951	29.4	0.25	0.15	8	1.3	7
Zinc	25	21	S12_ST	S01000	727	296	120	5	270	5
Interval 200-300 cm										
Cadmium	20	9	S85_ST	S00954	1.40	0.62	0.6	4	9	0
Chromium	20	20	S85_ST	S00958	28.5	28.5	26	1	110	0
Copper	20	11	S12_ST	S01016	203	29.4	16	5	110	1
Lead	20	20	S12_ST	S01016	195	37.9	31	2	110	1
Nickel	20	20	S90BST	S01116	67.9	18.0	16	6	50	1
Total Mercury	20	5	S85_ST	S00958	50.7	2.90	0.15	5	1.3	5
Zinc	20	18	S12_ST	S01016	421	124	120	2	270	1

Notes: SEL – severe effects level
LEL – lowest effects level

Table G2-8. Exceedance Summary for Inorganics in Surface and Profile Tributary Sediments Collected by PTI in 1992, 1993, and 1994

Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Station ID (max. conc.)	Sample ID (max. conc.)	Maximum Concentration (mg/kg dry)	Minimum Exceeded Concentration (mg/kg dry)	NYSDEC LEL Criteria Value (mg/kg dry)	NYSDEC LEL No. of Exceed-ances	NYSDEC SEL Criteria Value (mg/kg dry)	NYSDEC SEL No. of Exceed-ances
Interval 0-2 cm, 1992										
Total Mercury	3	3	S152_SU	S01352	40.9	28.6	0.15	3	1.3	3
Interval 0-2 cm, 1993										
Arsenic	5	5	S213S	S20012	18.8	8.00	6	5	33	0
Cadmium	15	2	S213N	S20010	0.91	0.73	0.6	2	9	0
Chromium	15	15	S212S	S20007	35.8	26.2	26	4	110	0
Copper	15	15	S213N	S20010	87.2	17.1	16	11	110	0
Lead	15	15	S213S	S20012	70.8	32.2	31	9	110	0
Nickel	15	13	S212S	S20007	22.5	16.9	16	5	50	0
Total Mercury	21	21	S213N	S20010	7.50	0.155	0.15	18	1.3	11
Zinc	15	15	S213S	S20012	643	123	120	11	270	4
Interval 0-15 cm, 1994										
Total Mercury	6	6	S12P_0	WF0070	89.2	0.74	0.15	6	1.3	5
Interval 15-30 cm, 1994										
Total Mercury	4	4	S36DSD_0	WF0072	17.2	0.35	0.15	4	1.3	3
Interval 30-100 cm, 1994										
Total Mercury	15	15	WS03	WF0055	131	1.91	0.15	14	1.3	14
Interval 100-200 cm, 1994										
Total Mercury	3	3	WS04	WF0051	8.28	0.41	0.15	2	1.3	1

Notes: SEL – severe effects level
LEL – lowest effects level

Table G2-9. Exceedance Summary for Organic Compounds in Surface Tributary Sediments (0-2 cm) Collected by PTI in 1993

Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Station ID (max. conc.)	Sample ID (max. conc.)	Maximum Concentration (mg/kg TOC)	Minimum Exceeded Concentration (mg/kg TOC)	NYSDEC HHB Criteria Value (mg/kg TOC)	NYSDEC HHB No. of Exceed-ances	NYSDEC ATBAL Criteria Value (mg/kg TOC)	NYSDEC ATBAL No. of Exceed-ances	NYSDEC CTBAL Criteria Value (mg/kg TOC)	NYSDEC CTBAL No. of Exceed-ances	NYSDEC WB Criteria Value (mg/kg TOC)	NYSDEC WB No. of Exceed-ances
Volatile Organic Compounds														
Benzene	15	9	S214M	S20014	40.6	0.80	0.6	8	103	0	28	1		
Toluene	15	13	S214M	S20014	144	66.0			235	0	49	2		
Xylene (Total)	15	12	S214M	S20014	375	319			833	0	92	2		
Chlorobenzene	15	15	S214M	S20014	1,125	4.44			34.6	3	3.5	7		
Semivolatile Organic Compounds														
1,2-Dichlorobenzene	15	15	S214M	S20014	3,750	13.4			120	4	12	10		
1,3-Dichlorobenzene	15	8	S214M	S20014	438	438			120	1	12	1		
1,4-Dichlorobenzene	15	15	S214M	S20014	5,000	12.3			120	4	12	10		
Dichlorobenzene	15	15	S214M	S20014	9,188	24.5			120	4	12	11		
1,2, 3-Trichlorobenzene	10	6	S214M	S20014	116	116			910	0	91	1		
1,3,5-Trichlorobenzene	10	9	S214M	S20014	469	236			910	0	91	2		
Trichlorobenzene	15	14	S214M	S20014	584	301			910	0	91	2		
Hexachlorobenzene	15	10	S213M	S20011	16.4	1.54	0.15	10	9,081	0	5,570	0	12	2
Naphthalene	5	5	S210N	S20003	593	42.4			258	1	30	3		
Fluorene	5	5	S210N	S20003	36.0	10.8			73	0	8	3		
2-Methylnaphthalene	5	4	S210N	S20003	47.3	47.3			304	0	34	1		
Benzo(a)anthracene	5	5	S210N	S20003	30.7	30.7			94	0	12	1		
Chrysene	5	5	S210N	S20003	33.3	3.62	1.3	5						
Benzo(b)fluoranthene	5	5	S210N	S20003	25.3	3.40	1.3	5						
Benzo(k)fluoranthene	5	5	S210N	S20003	21.3	3.19	1.3	5						
Benzo(a)pyrene	5	5	S210N	S20003	24.7	2.34	1.3	5						
Indeno(1,2,3-cd)pyrene	5	5	S210N	S20003	12.7	2.05	1.3	4						
Phenol	5	3	S214N	S20015	70.2	11.4					0.5	3		
Pesticides/Polychlorinated Biphenyls														
Polychlorinated biphenyls	15	9	S213M	S20011	27.3	1.66	0.008	9	2,761	0	19.3	1	1.4	9

Notes: HHB - human health bioaccumulation
ATBAL - acute toxicity benthic aquatic life
CTBAL - chronic toxicity benthic aquatic life
WB - wildlife bioaccumulation
TOC - total organic carbon

Table G2-10. Exceedance Summary for Inorganics in Wetlands SYW-6 Sediments Collected by NYSDEC in 2002

Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Sample ID (max. conc.)	Maximum Concentration (mg/kg dry)	Minimum Exceeded Concentration (mg/kg dry)	NYSDEC LEL Criteria Value (mg/kg dry)	NYSDEC LEL No. of Exceedances	NYSDEC SEL Criteria Value (mg/kg dry)	NYSDEC SEL No. of Exceedances
Interval 0-15 cm									
Antimony	5	2	SYW6-3	2.2	2.2	2	1	25	0
Cadmium	5	5	SYW6-3	5.4	0.68	0.60	4	9	0
Chromium	5	5	SYW6-3	89	31	26	3	110	0
Copper	5	5	SYW6-3	72	18	16	4	110	0
Iron	5	5	SYW6-2	24,000	24,000	20,000	1	40,000	0
Lead	5	5	SYW6-3	143	32.3	31	4	110	1
Nickel	5	5	SYW6-3	52	17.4	16	3	50	1
Silver	5	4	SYW6-3	1.4	1.4	1.0	1	2.2	0
Total Mercury	5	5	SYW6-3	4.5	0.19	0.15	5	1.3	1
Zinc	5	5	SYW6-3	195	165	120	2	270	0
Interval 15-30 cm									
Arsenic	6	6	SYW6-2	7.7	0	6	1	33	0
Cadmium	6	6	SYW6-2	4.6	0.67	0.60	4	9	0
Chromium	6	6	SYW6-2	86	46	26	2	110	0
Copper	6	6	SYW6-2	122	17	16	4	110	1
Iron	6	6	SYW6-2	32,400	32,400	20,000	1	40,000	0
Lead	6	6	SYW6-3	178	90	31	3	110	2
Nickel	6	6	SYW6-2	75	21	16	3	50	1
Total Mercury	6	6	SYW6-3	1.6	0.26	0.15	4	1.3	2
Zinc	6	6	SYW6-2	239	163	120	2	270	0

Notes: SEL – severe effects level
LEL – lowest effects level

Table G2-11. Exceedance Summary for Organic Compounds in Wetlands SYW-6 Sediments Collected by NYSDEC in 2002

Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Sample ID (max. conc.)	Maximum Normalized Concentration (mg/kg TOC)	Minimum Exceeded Normalized Concentration (mg/kg TOC)	NYSDEC HHB Criteria Value (mg/kg TOC)	NYSDEC HHB No. of Exceed-ances	NYSDEC ATBAL Criteria Value (mg/kg TOC)	NYSDEC ATBAL No. of Exceed-ances	NYSDEC CTBAL Criteria Value (mg/kg TOC)	NYSDEC CTBAL No. of Exceed-ances	NYSDEC WB Criteria Value (mg/kg TOC)	NYSDEC WB No. of Exceed-ances
Interval 0-15 cm													
Benzo(a)anthracene	5	4	SYW6-4	21	21			94	0	12	1		
Chrysene	5	5	SYW6-4	17	1.4	1.3	5						
Benzo(b)fluoranthene	5	4	SYW6-4	18	4.0	1.3	4						
Benzo(k)fluoranthene	5	4	SYW6-4	8	1.5	1.3	4						
Benzo(a)pyrene	5	4	SYW6-4	13	3.1	1.3	4						
Indeno(1,2,3-cd)pyrene	5	4	SYW6-3	8	1.9	1.3	4						
Interval 15-30 cm													
Naphthalene	6	1	SYW6-3	37	37			258	0	30	1		
Fluorene	6	1	SYW6-3	58	58			73	0	8	1		
Phenanthrene	6	5	SYW6-3	303	303					120	1		
Benzo(a)anthracene	6	5	SYW6-3	236	236			94	1	12	1		
Chrysene	6	6	SYW6-3	231	1.8	1.3	5						
Benzo(b)fluoranthene	6	5	SYW6-3	284	2.0	1.3	5						
Benzo(k)fluoranthene	6	3	SYW6-3	106	1.6	1.3	2						
Benzo(a)pyrene	6	5	SYW6-3	231	1.9	1.3	4						
Indeno(1,2,3-cd)pyrene	6	4	SYW6-3	135	1.4	1.3	2						
Phenol	6	1	SYW6-3	3.1	3.1					0.5	1		

Note: SVOCs were the only organics analyzed in these data.

Table G2-12. Exceedance Summary for Inorganics in Wetlands Sediments Collected by Exponent in 2000

Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Station ID (max. conc.)	Sample ID (max. conc.)	Maximum Concentration (mg/kg dry)	Minimum Exceeded Concentration (mg/kg dry)	NYSDEC LEL Criteria Value (mg/kg dry)	NYSDEC LEL No. of Exceedances	NYSDEC SEL Criteria Value (mg/kg dry)	NYSDEC SEL No. of Exceedances
Interval 0-15 cm										
Arsenic	16	16	S379	WS0009	18.4	6.80	6	5	33	0
Cadmium	16	16	S375	WS0001	14.3	0.64	0.6	15	9	1
Chromium	16	16	S375	WS0001	154	26.5	26	13	110	2
Copper	16	16	S386	WS0023	167	17.5	16	16	110	2
Iron	16	16	S379	WS0009	21,600	21,600	20,000	1	40,000	0
Lead	16	16	S385	WS0021	259	37.1	31	13	110	6
Manganese	16	16	S381	WS0013	488	488	460	1	1100	0
Nickel	16	16	S375	WS0001	64.3	19.4	16	12	50	1
Silver	16	10	S389	WS0029	2.7	1.25	1	5	2.2	1
Total Mercury	16	15	S385	WS0021	25.1	0.23	0.15	15	1.3	10
Zinc	16	16	S376	WS0003	510	128	120	6	270	2
Interval 15-30 cm										
Antimony	16	10	S380	WS0012	10.0	5.50	2	2	25	0
Arsenic	16	16	S390	WS0032	10.8	7.00	6	4	33	0
Cadmium	16	16	S390	WS0032	80.4	0.67	0.6	12	9	2
Chromium	16	16	S390	WS0032	594	27.4	26	9	110	3
Copper	16	16	S390	WS0032	517	19.8	16	16	110	2
Iron	16	16	S390	WS0032	27,000	27,000	20,000	1	40,000	0
Lead	16	16	S385	WS0022	376	33.3	31	13	110	6
Nickel	16	16	S390	WS0032	100	17.7	16	14	50	1
Silver	16	9	S390	WS0032	11.5	1.30	1	4	2.2	1
Total Mercury	16	15	S385	WS0022	60.2	0.37	0.15	14	1.3	7
Zinc	16	16	S390	WS0032	866	138	120	10	270	2

Notes: SEL – severe effects level
LEL – lowest effects level

Table G2-13. Exceedance Summary for Organic Compounds in Wetlands Sediments Collected by Exponent in 2000

Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Station ID (max. conc.)	Sample ID (max. conc.)	Maximum Normalized Concentration (mg/kg TOC)	Minimum Exceeded Normalized Concentration (mg/kg TOC)	NYSDEC HHB Criteria Value (mg/kg TOC)	NYSDEC HHB No. of Exceed-ances	NYSDEC ATBAL Criteria Value (mg/kg TOC)	NYSDEC ATBAL No. of Exceed-ances	NYSDEC CTBAL Criteria Value (mg/kg TOC)	NYSDEC CTBAL No. of Exceed-ances	NYSDEC WB Criteria Value (mg/kg TOC)	NYSDEC WB No. of Exceed-ances
Interval 0-15 cm														
Semivolatile Organic Compounds														
1,2-Dichlorobenzene	16	4	S385	WS0021	24.9	17.8			120	0	12	3		
1,4-Dichlorobenzene	16	5	S385	WS0021	44.9	35.6			120	0	12	3		
Dichlorobenzene	16	5	S385	WS0021	77.6	20.4			120	0	12	4		
Hexachlorobenzene	16	2	S385	WS0021	39.0	5.78	0.15	2	9,081	0	5,570	0	12	1
Hexachlorobenzene (GC/ECD)	14	12	S385	WS0021	21.5	0.29	0.15	7	9,081	0	5,570	0	12	2
Fluorene	16	5	S384	WS0019	9.82	9.82			73	0	8	1		
Benzo(a)anthracene	16	13	S384	WS0019	50.9	12.1			94	0	12	6		
Chrysene	16	14	S384	WS0019	54.5	1.34	1.3	10						
Benzo(b)fluoranthene	16	13	S384	WS0019	40.0	2.82	1.3	8						
Benzo(k)fluoranthene	16	13	S384	WS0019	36.4	2.56	1.3	8						
Benzo(a)pyrene	16	13	S384	WS0019	47.3	2.30	1.3	8						
Indeno(1,2,3-cd)pyrene	16	12	S384	WS0019	25.8	1.54	1.3	8						
Phenol	16	3	S385	WS0021	16.0	1.14					0.5	3		
Pesticides/Polychlorinated Biphenyls														
Hexachlorocyclohexanes	16	5	S386	WS0023	0.07	0.07	0.06	1	12.6	0	0.06	1	1.5	0
Aldrin	15	3	S383	WS0017	0.19	0.16	0.1	3					0.77	0
Aldrin and dieldrin	16	7	S383	WS0017	0.38	0.24	0.1	3					0.77	0
alpha-Chlordane	16	4	S390	WS0031	0.07	0.04	1.0E-03	4	1.4	0	0.03	4	6.0E-03	4
gamma-Chlordane	14	6	S383	WS0017	0.10	0.03	1.0E-03	6	1.4	0	0.03	6	6.0E-03	6
Chlordane	16	6	S383	WS0017	0.16	0.03	1.0E-03	6	1.4	0	0.03	6	6.0E-03	6
Dieldrin	16	7	S383	WS0017	0.18	0.14	0.1	2			9	0	0.77	0
Endosulfan I	16	2	S385	WS0021	0.05	0.04			0.78	0	0.03	2		
Heptachlor epoxide	15	7	S383	WS0017	0.13	0.02	8.0E-04	7	13.1	0	0.1	1	0.03	6
Heptachlor and heptachlor epoxide	16	7	S383	WS0017	0.13	0.02	8.0E-04	7	13.1	0	0.1	1	0.03	6
4,4'-DDD	15	2	S390	WS0031	0.03	0.03	0.01	2					1	0
4,4'-DDE	12	5	S385	WS0021	0.10	0.02	0.01	5					1	0
4,4'-DDT	14	13	S383	WS0017	0.47	0.01	0.01	11	1.1E+03	0	1	0	1	0
DDT	14	13	S383	WS0017	0.47	0.01	0.01	11	1.1E+03	0	1	0	1	0
Polychlorinated biphenyls	16	16	S383	WS0017	9.00	0.13	8.0E-03	16	2.8E+03	0	19.3	0	1.4	7
Dioxins/Furans														
2,3,7,8-Tetra-chlorodibenzo-dioxin	12	12	S385	WS0021	3.2E-04	3.2E-04	0.01	0					2.0E-04	1
2,3,7,8-Tetra-chlorodibenzo-dioxin (TEQ)	12	12	S385	WS0021	6.1E-03	1.6E-03	0.01	0					2.0E-04	4

Table G2-13. (cont.)

Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Station ID (max. conc.)	Sample ID (max. conc.)	Maximum Normalized Concentration (mg/kg TOC)	Minimum Exceeded Normalized Concentration (mg/kg TOC)	NYSDEC HHB Criteria Value (mg/kg TOC)	NYSDEC HHB No. of Exceed-ances	NYSDEC ATBAL Criteria Value (mg/kg TOC)	NYSDEC ATBAL No. of Exceed-ances	NYSDEC CTBAL Criteria Value (mg/kg TOC)	NYSDEC CTBAL No. of Exceed-ances	NYSDEC WB Criteria Value (mg/kg TOC)	NYSDEC WB No. of Exceed-ances
Interval 15-30 cm														
Volatile Organic Compounds														
Benzene	12	5	S384	WS0020	0.76	0.76	0.6	1	103	0	28	0		
Chlorobenzene	11	5	S384	WS0020	16.7	16.7			34.6	0	3.5	1		
Semivolatile Organic Compounds														
1,2-Dichlorobenzene	16	4	S383	WS0018	37.4	17.1			120	0	12	3		
1,3-Dichlorobenzene	16	4	S385	WS0022	74.0	74.0			120	0	12	1		
1,4-Dichlorobenzene	16	4	S385	WS0022	68.0	13.0			120	0	12	4		
Dichlorobenzene	16	4	S385	WS0022	178	18.9			120	1	12	4		
1,2,4-Trichlorobenzene	16	4	S385	WS0022	215	215			910	0	91	1		
Trichlorobenzene	16	4	S385	WS0022	215	215			910	0	91	1		
Hexachlorobenzene	16	4	S383	WS0018	6.45	0.46	0.15	4	9,081	0	5,570	0	12	0
Hexachlorobenzene (GC/ECD)	14	11	S383	WS0018	9.48	0.30	0.15	8	9,081	0	5,570	0	12	0
Fluorene	16	4	S385	WS0022	17.9	17.9			73	0	8	1		
Phenanthrene	16	12	S385	WS0022	155	129					120	2		
Benzo(a)anthracene	16	12	S383	WS0018	71.0	41.4			94	0	12	4		
Chrysene	16	13	S383	WS0018	77.4	1.98	1.3	9						
Benzo(b)fluoranthene	16	11	S385	WS0022	119	1.53	1.3	9						
Benzo(k)fluoranthene	16	11	S385	WS0022	107	1.71	1.3	9						
Benzo(a)pyrene	16	11	S385	WS0022	110	2.58	1.3	8						
Indeno(1,2,3-cd)pyrene	16	10	S385	WS0022	71.6	1.59	1.3	8						
Phenol	16	3	S385	WS0022	26.3	1.20					0.5	3		
Pesticides/Polychlorinated Biphenyls														
delta-BHC	3	3	S385	WS0022	0.12	0.12	0.06	1	12.6	0	0.06	1	1.5	0
Hexachlorocyclohexanes	16	7	S385	WS0022	0.12	0.07	0.06	2	12.6	0	0.06	2	1.5	0
Aldrin	13	3	S385	WS0022	0.59	0.15	0.1	2					0.77	0
Aldrin and dieldrin	15	9	S385	WS0022	0.75	0.13	0.1	4					0.77	0
alpha-Chlordane	15	4	S383	WS0018	0.12	0.04	1.0E-03	4	1.4	0	0.03	4	6.0E-03	4
gamma-Chlordane	15	9	S385	WS0022	0.27	0.01	1.0E-03	9	1.4	0	0.03	6	6.0E-03	9
Chlordane	16	10	S385	WS0022	0.27	0.01	1.0E-03	10	1.4	0	0.03	7	6.0E-03	10
Dieldrin	15	9	S383	WS0018	0.25	0.13	0.1	3			9	0	0.77	0
Heptachlor epoxide	14	6	S385	WS0022	0.40	0.01	8.0E-04	6	13.1	0	0.1	2	0.03	3
Heptachlor and heptachlor epoxide	16	6	S385	WS0022	0.40	0.01	8.0E-04	6	13.1	0	0.1	2	0.03	3
4,4'-DDD	15	1	S390	WS0032	0.05	0.05	0.01	1					1	0
4,4'-DDE	13	7	S385	WS0022	0.10	0.02	0.01	6					1	0
4,4'-DDT	14	12	S383	WS0018	0.29	0.011	0.01	10	1,100	0	1	0	1	0
DDT	14	12	S383	WS0018	0.29	0.011	0.01	10	1,100	0	1	0	1	0
Polychlorinated biphenyls	16	14	S385	WS0022	21.7	0.13	8.0E-03	14	2,761	0	19.3	1	1.4	8
Dioxins/Furans														
2,3,7,8-Tetra-chlorodibenzo-dioxin (TEQ)	12	12	S385	WS0022	8.1E-03	1.2E-03	0.01	0					2.0E-04	4

Table G2-14. Exceedance Summary for Inorganics in Dredge Spoil Soils Collected by Exponent in 2000 (All Depths)

							EUSA BKG MAX		EUSA BKG MIN		CRDL		RSCO	
Chemical	Total Number of Validated Samples	Number of Samples with Detected Parameter	Station ID (max. conc.)	Sample ID (max. conc.)	Maximum Concentration (mg/kg dry)	Minimum Exceeded Concentration (mg/kg dry)	Criteria Value (mg/kg dry)	No. of Exceed-ances	Criteria Value (mg/kg dry)	No. of Exceed-ances	Criteria Value (mg/kg dry)	No. of Exceed-ances	Criteria Value (mg/kg dry)	No. of Exceed-ances
Aluminum	41	41	S437	DM0035	23,300	1,010	33,000	0			2	41		
Antimony	41	31	S439	DM0025	1.30	0.69					0.6	5		
Arsenic	41	41	S438	DM0014	13.3	0.62	12	1	3	36	0.1	41	7.5	17
Barium	41	41	S440	DM0010	227	49.1	600	0	15	41	2	41	300	0
Beryllium	41	41	S437	DM0035	1.00	0.086	1.75	0	0	41	0.05	41	0.16	38
Cadmium	41	21	S439	DM0025	4.3	0.07	1	3	0.1	20	0.05	21	1	3
Calcium	41	41	S440	DM0010	357,000	25,800	35,000	39	130	41	50	41		
Chromium	41	41	S439	DM0025	61.6	2.80	40	1	1.5	41	0.1	41	10	37
Cobalt	41	41	S443	DM0039	8.20	1.40	60	0	2.5	31	0.5	38	30	0
Copper	41	41	S439	DM0025	61.6	1.80	50	4	1	41	0.25	41	25	20
Cyanide	41	8	S440/S441	DM0007/DM0028	1.30	0.85					0.1	8		
Iron	41	41	S437	DM0035	29,600	1,330	550,000	0	2,000	39	1	41	2,000	39
Lead	41	40	S439	DM0025	157	2.50					0.03	40		
Magnesium	41	41	S443	DM0036	19,000	3,010	5,000	37	100	41	50	41		
Manganese	41	41	S443	DM0037	440	106	5,000	0	50	41	0.15	41		
Nickel	41	41	S439	DM0025	49.6	1.80	25	15	0.5	41	0.4	41	13	32
Potassium	41	41	S437	DM0035	5,750	220	43,000	0	8,500	0	50	41		
Selenium	41	38	S437	DM0035	2.10	0.46	3.9	0	0.1	38	0.05	38	2	1
Silver	41	5	S439	DM0025	0.88	0.12					0.1	5		
Sodium	41	41	S437	DM0035	13,000	214	8,000	2	6,000	3	50	41		
Thallium	41	1	S436	DM0002	0.75	0.75					0.1	1		
Total Mercury	41	37	S437	DM0033	98.8	0.052	0.2	27	0.001	37	0.002	37	0.1	31
Vanadium	41	41	S437	DM0035	40.7	1.70	300	0	1	41	0.5	41	150	0
Zinc	41	41	S439	DM0025	186	12.1	50	21	9	41	0.2	41	20	38

Notes: EUSA BKG MAX – NYSDEC Technical and Administrative Guidance Memorandum (TAGM) 4046 Eastern USA background maximum concentrations
EUSA BKG MIN – NYSDEC TAGM 4046 Eastern USA background minimum concentrations
CRDL – NYSDEC TAGM 4046 contract-required detection limit
RSCO – NYSDEC TAGM 4046 recommended soil cleanup objective

Table G2-15. Exceedance Summary for Organic Compounds in Dredge Spoil Soils Collected by Exponent in 2000 (All Depths)

							ALLSOILCONC		SOILOBJGW		EPAHEALCAR		EPAHEALTOXIC		**RSCO**	
Chemical	Total Number of validated samples	Number of Samples with Detected Parameter	Station ID (max. conc.)	Sample ID (max. conc.)	Minimum Exceeded Concentration (µg/kg dry)	Maximum Concentration (µg/kg dry)	Criteria Value (µg/kg dry)	No. of Exceed-ances	Criteria Value (µg/kg dry)	No. of Exceed-ances	Criteria Value (µg/kg dry)	No. of Exceed-ances	Criteria Value (µg/kg dry)	No. of Exceed-ances	**Criteria Value (µg/kg dry)**	**No. of Exceed-ances**
Semivolatile Organic Compounds																
1,2-Dichlorobenzene	40	4	S440	DM0009	80	97	79	2	7,900	0					7,900	0
1,3-Dichlorobenzene	40	5	S437	DM0034	79	130	15.5	5	1,550	0					1,600	0
4-Chloroaniline	40	1	S437	DM0032	98	98	2.2	1	220	0	200,000	0	300,000	0	220	0
Di-n-butylphthalate	40	6	S439	DM0025	100	110	81	2	8,100	0			8,000,000	0	8,100	0
Hexachlorobenzene (GC/ECD)	1	1	S438	DM0012/DM0042	620.6	620.6	14	1	1,400	0	410	1	60,000	0	410	1
Hexachlorobenzene	40	9	S438	DM0012/DM0042	55	575	14	9	1,400	0	410	2	60,000	0	410	2
Acenaphthene	40	4	S443	DM0040	355	1,200	900	1	90,000	0			5,000,000	0	50,000	0
Benzo(a)anthracene	40	20	S443	DM0040	47	22,000	30	20	3,000	2	224	5			224	5
Benzo(a)pyrene	40	23	S443	DM0040	44	23,000	110	12	11,000	1	60.9	19			61	19
Benzo(b)fluoranthene	40	22	S443	DM0040	53	20,000	11	22	1,100	3					1,100	3
Benzo(g,h,i)perylene	40	15	S443	DM0040	360	11,000	8,000	1	800,000	0					50,000	0
Benzo(k)fluoranthene	40	20	S443	DM0040	56	20,000	11	20	1,100	3					1,100	3
Chrysene	40	26	S443	DM0040	41	25,000	4	26	400	4					400	4
Dibenz(a,h)anthracene	40	5	S443	DM0040	47.5	5,200	1,650,000	0	165,000,000	0	14.3	5			14	5
Fluoranthene	40	34	S443	DM0040	400	32,000	19,000	1	1,900,000	0			3,000,000	0	50,000	0
Indeno(1,2,3-cd)pyrene	40	15	S443	DM0040	47	11,000	32	15	3,200	1					3,200	1
Naphthalene	40	3	S436	DM0003/DM0043	640	9013.75	130	2	13,000	0			300,000	0	13,000	0
Phenanthrene	40	22	S443	DM0040	360	9,500	2,200	2	220,000	0					50,000	0
Pyrene	40	31	S443	DM0040	390	25,000	6,650	2	665,000	0			2,000,000	0	50,000	0
Pesticides/Polychlorinated Biphenyls																
beta-BHC	1	1	S438	DM0012/DM0042	3.19	3.19	2	1	200	0	3,890	0			200	0
Dieldrin	1	1	S438	DM0012/DM0042	3.8	3.8	1	1	100	0	44	0	4,000	0	44	0
Endrin aldehyde	1	1	S438	DM0012/DM0042	2.81	2.81	1	1	100	0			20,000	0	100	0
Heptachlor epoxide	1	1	S438	DM0012/DM0042	3.84	3.84	0.2	1	20	0	77	0	800	0	20	0
Sum of Aroclors	40	22	S440	DM0009	10.6	826	100	18	10,000	0	1,000	0			1,000	0

Notes: ALLSOILCONC – NYSDEC TAGM #4046 allowable soil concentrations
SOILOBJGW – NYSDEC TAGM #4046 soil cleanup objective to protect groundwater quality
EPAHEALCAR – NYSDEC TAGM #4046 USEPA health-based levels for carcinogens
EPAHEALTOXIC – NYSDEC TAGM #4046 USEPA health-based levels for systemic toxicants
RSCO – NYSDEC TAGM #4046 recommended soil cleanup objective