

**Table 3. Summary of Channel Sediment Data for Select Parameters from Geddes Brook and Ninemile Creek (1998, 2001)**

Parameter	Upper Ninemile Creek		Lower Ninemile Creek		Upper Geddes Brook		Lower Geddes Brook	
	Maximum Detection	Average Detection	Maximum Detection	Average Detection	Maximum Detection	Average Detection	Maximum Detection	Average Detection
<b>0 to 15 cm</b>								
Arsenic (mg/kg)	5.80	5.20	23.7	6.12	3.30	2.55	6.60	4.44
Benzo(a)pyrene (µg/kg)	180	118	1,100	328	2,100	1,550	2,900	720
Hexachlorobenzene (µg/kg)	ND	ND	2,450	193	3.10	3.10	795	253
Lead (mg/kg)	23.5	18.0	194	39.7	30.3	30.3	114	36.4
Mercury (mg/kg)	0.15	0.10	21.1	3.08	0.36	0.20	15.7	2.62
Methylmercury (µg/kg)	1.89	1.24	6.26	2.48	2.01	1.60	4.83	2.91
Total PAHs (µg/kg)	2,040	1,379	13,981	3,645	24,469	18,009	42,130	8,717
Total PCBs (µg/kg)	ND	ND	1,350	166	ND	ND	150	111
Phenol (µg/kg)	ND	ND	220	142	ND	ND	250	195
<b>15 to 45 cm</b>								
Arsenic (mg/kg)	4.20	4.20	33.2	7.09	3.40	3.40	14.6	6.26
Benzo(a)pyrene (µg/kg)	ND	ND	2,800	460	360	360	480	283
Hexachlorobenzene (µg/kg)	ND	ND	7,100	807	ND	ND	5,500	925
Lead (mg/kg)	9.90	9.90	532	50	35.2	35.2	200	41.4
Mercury (mg/kg)	0.03	0.03	68.6	6.58	0.32	0.27	5.30	1.57
Methylmercury (µg/kg)	0.17	0.17	9.01	2.82	0.59	0.59	4.60	1.37
Total PAHs (µg/kg)	ND	ND	33,915	4,420	4,083	4,083	6,030	2,929
Total PCBs (µg/kg)	ND	ND	1,200	210	52.0	52.0	400	250
Phenol (µg/kg)	ND	ND	1,700	499	ND	ND	120	92.5
<b>45 to 75 cm</b>								
Arsenic (mg/kg)	NA	NA	101	10.1	2.70	2.70	8.30	5.76
Benzo(a)pyrene (µg/kg)	NA	NA	1,600	374	150	150	1,400	557
Hexachlorobenzene (µg/kg)	NA	NA	26,000	2,168	ND	ND	17,500	5,322
Lead (mg/kg)	NA	NA	388	45.8	25.1	25.1	371	127
Mercury (mg/kg)	NA	NA	118	5.33	0.37	0.30	79.0	16.7
Methylmercury (µg/kg)	NA	NA	20.1	4.80	0.27	0.27	8.82	3.04
Total PAHs (µg/kg)	NA	NA	23,685	4,071	1,787	1,787	12,620	5,575
Total PCBs (µg/kg)	NA	NA	2,100	258	37	37	4,500	1,580
Phenol (µg/kg)	NA	NA	940	505	ND	ND	ND	ND
<b>75 to 105 cm</b>								
Arsenic (mg/kg)	NA	NA	101	14.6	3.60	3.60	22.7	10.2
Benzo(a)pyrene (µg/kg)	NA	NA	1,200	251	82	82	3,900	1,123
Hexachlorobenzene (µg/kg)	NA	NA	1,050	372	ND	ND	107,500	27,386
Lead (mg/kg)	NA	NA	374	50.9	14.8	14.8	144	57.6
Mercury (mg/kg)	NA	NA	28.3	3.09	0.42	0.26	3.76	2.79
Methylmercury (µg/kg)	NA	NA	14.9	2.94	0.35	0.35	3.51	2.34
Total PAHs (µg/kg)	NA	NA	17,661	3,296	943	943	55,180	15,785
Total PCBs (µg/kg)	NA	NA	2,500	441	27.5	27.5	133	133
Phenol (µg/kg)	NA	NA	700	401	ND	ND	ND	ND
<b>Below 105 cm</b>								
Arsenic (mg/kg)	NA	NA	37.6	7.69	NA	NA	10.3	9.35
Benzo(a)pyrene (µg/kg)	NA	NA	1,100	418	NA	NA	2,800	1,600
Hexachlorobenzene (µg/kg)	NA	NA	435	228	NA	NA	140,000	73,125
Lead (mg/kg)	NA	NA	321	44.1	NA	NA	115	86.7
Mercury (mg/kg)	NA	NA	30.2	1.57	NA	NA	10.4	8.85
Methylmercury (µg/kg)	NA	NA	4.36	1.10	NA	NA	3.14	3.09
Total PAHs (µg/kg)	NA	NA	15,654	4,867	NA	NA	41,860	23,621
Total PCBs (µg/kg)	NA	NA	475	167	NA	NA	ND	ND
Phenol (µg/kg)	NA	NA	780	285	NA	NA	ND	ND

Notes:

1. NA=Not analyzed
2. ND=Not detected
3. The sediment samples outside of the site limits, as defined in this Proposed Plan, are not included in these statistics. These include NM1, NM2, TN-17 and TN-18, which are located upstream of Amboy Dam in upper Ninemile Creek, and GB1, which is located in upper Geddes Brook. These data can be found in the RI report, and the statistics reported for upper Ninemile Creek and upper Geddes Brook in Appendix I of the RI include the data from these stations.