

Appendix C

Aquatic Environment -
Photographs and Tables



Photograph P113. Reed Lake Station 5 (Looking West)↑



Photograph P116. Outlet of Grass River (Background) into Reed Lake (Looking West)↑



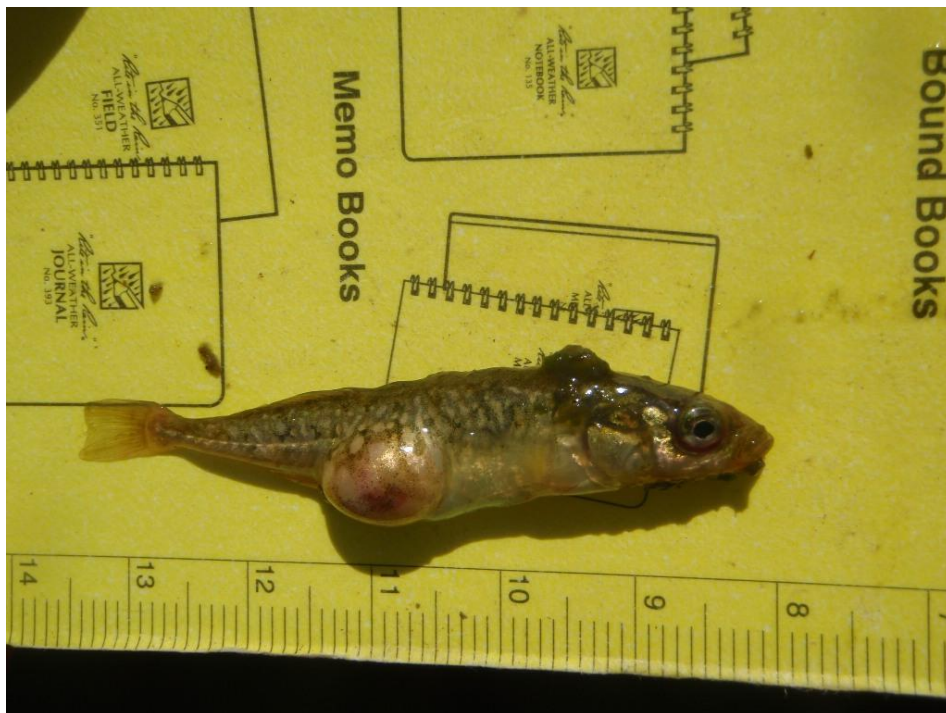
Photograph S122. Aquatic Habitat in Reed Lake (Looking West)↑



Photograph S124. Aquatic Habitat Adjacent to Outlet of Grass River (Left) into Reed Lake (Looking West/Upstream)↑



Photograph S062. Unnamed Lake 1 (Looking North-West)↑



Photograph S069. Brook Stickleback from Unnamed Lake 1 Infected with Internal Parasite↑



Photograph P157. Unnamed Lake 2 (Background) and Whitehouse Creek (Foreground) (Looking East) ↑



Photograph 196. Exposed sediments on shore of Unnamed Lake 2 ↑



Photograph 197. Exposed mussels on shore of Unnamed Lake 2↑



Photograph S052. Brook Stickleback from Unnamed Lake 2 Infected with Black Spot Parasite↑



Photograph 177. Drill water intake on shore of Unnamed Lake 3↑



Photograph M016. Shoreline Habitat in Unnamed Lake 3↑



Photograph P065. Unnamed Lake 4 (Looking North with Unnamed Lake 5 in Background)↑



Photograph S009. Shoreline Habitat in Unnamed Lake 4↑



Photograph P070. Unnamed Lake 5 (Looking North)↑



Photograph S039. Shoreline Habitat in Unnamed Lake 5↑



Photograph S072. Aquatic Habitat of Unnamed Creek 2 (Looking South/Upstream)↑



Photograph S089. Aquatic Habitat at Confluence of Unnamed Creek 3 (Right) and Whitehouse Creek (Looking North/Downstream)↑



Photograph M056. Aquatic Habitat at Unnamed Creek 4 (Looking North-West/Upstream)↑



Photograph P168. Whitehouse Creek Station 1 (Looking South/Upstream)↑



Photograph S078. Aquatic Habitat at Station 1 on Whitehouse Creek (Looking South/Upstream)↑



Photograph 221. Whitehorse Creek at drill road looking WNW↑



14N 0390567 6051100

10/08/24 12:49:37 PM

Photograph P148. Whitehouse Creek at PTH 39 (Looking East)↑



14N 0390779 6051035

10/07/09 5:27:11 PM

Photograph 217. Downstream culvert on Whitehorse Creek at PTH 39↑



Photograph P128. Confluence of Whitehouse Creek Station 2 (Left) and Grass River (Top)↑



Photograph S094. Aquatic Habitat at Station 2 on Grass River (Looking West/Upstream)↑



Photograph S097. Aquatic Habitat at Station 2 on Grass River (Looking North/Upstream)↑

Table - 01 - Detailed Water Chemistry Results

Waterbody Station Date Sampled	Unit	CCME CWQG PAL	DL	Reed Lake						Unnamed Creek 2	Unnamed Creek 3	Unnamed Creek 4	Unnamed Lake 1	
				RDL-F10-WQ1	RDL-F10-WQ2	RDL-F10-WQ3	RDL-F10-WQ4	RDL-F10-WQ5	RDL-F10-WQ6	UC2-F10-WQ1	UC3-F10-WQ1	UC4-F10-WQ1	UL1-F10-WQ1	UL1-F10-WQ2
				18-Sep-10			19-Sep-10			15-Sep-10	16-Sep-10	17-Sep-10	13-Sep-10	13-Sep-10
Conventional Parameters														
Field-Measured Temperature	°C	-	0.01	9.55	10.46	10.70	9.78	7.78	8.22	12.04	11.30	7.28	10.44	10.35
Field-Measured pH	pH units	6.5 - 9.0	0.1	7.81	8.04	8.26	8.53	7.80	8.72	6.78	7.39	7.62	8.53	8.59
Laboratory-Measured pH	pH units	6.5 - 9.0	0.10	8.01	8.17	8.13	8.22	8.00	8.38	7.91	7.72	7.81	8.49	8.49
Conductivity	umhos/cm	-	0.40	152	158	157	158	281	237	304	260	267	322	322
Hardness (as CaCO ₃)	mg/L	-	0.20	77.9	76.8	79.0	77.5	155	122	170	143	145	172	191
True Color	T.C.U.	-	5.0	30.4	16.9	16.9	13.0	74.4	22.7	-	-	58.3	10.5	11.5
TSS	mg/L	-	5.0	6.0	10.0	7.0	5.0	<5.0	12.0	16.0	<5.0	<5.0	6.0	9.0
TDS	mg/L	-	5.0	110	112	104	104	172	142	172	156	176	214	212
Turbidity	NTU	-	0.10	2.49	2.46	2.74	2.02	0.57	4.46	0.28	0.45	0.589	1.38	1.43
Anions and Nutrients														
Acidity (as CaCO ₃)	mg/L	-	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Total Alkalinity (as CaCO ₃)	mg/L	-	1.0	76.1	76.6	76.3	76.6	148	123	167	140	139	172	172
Bicarbonate	mg/L	-	2.0	92.8	93.5	93.1	93.4	181	146	204	171	170	199	200
Bromide	mg/L	-	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Carbonate	mg/L	-	0.60	<0.60	<0.60	<0.60	<0.60	<0.60	2.09	<0.60	<0.60	<0.60	4.85	4.78
Chloride	mg/L	-	0.50	0.75	3.12	1.78	1.92	2.89	2.11	0.68	0.95	3.29	4.09	4.07
Fluoride	mg/L	-	0.10	-	-	-	-	-	-	<0.10	<0.10	<0.10	<0.10	<0.10
Hydroxide	mg/L	-	0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Silicate (as SiO ₂)	mg/L	-	1.0	2.8	2.8	3.0	3.2	7.0	3.4	6.3	7.4	6.83	5.7	5.4
Sulfate	mg/L	-	0.50	1.93	4.47	2.51	2.69	<0.50	1.66	<0.50	<0.50	<0.50	<0.50	<0.50
Ammonia as N	mg/L	0.28 - 8.47	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.164	<0.050	<0.050	0.493	0.491
Nitrate and Nitrite as N	mg/L	-	0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071
Nitrate-N	mg/L	-	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrite-N	mg/L	-	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
TKN	mg/L	-	0.20	0.56	0.56	0.54	0.60	0.81	0.66	0.58	0.52	0.59	2.18	2.01
TP	mg/L	-	0.0020	0.0175	0.0302	0.0274	0.0295	0.0102	0.0190	0.0171	0.0119	<0.010	0.0164	0.0158
Organic / Inorganic Carbon														
DOC	mg/L	-	1.0	14.3	11.6	12.8	12.1	20.4	15.2	13.0	15.1	18.5	21.6	21.5
TIC	mg/L	-	1.0	-	-	-	-	-	-	-	-	-	36.0	36.7
TOC	mg/L	-	1.0	14.3	11.6	12.0	11.4	20.6	14.5	15.9	19.3	23.3	21.3	21.6
Aggregate Organics														
BOD Carbonaceous	mg/L	-	1.0	1.1	2.2	1.4	1.3	1.3	1.8	1.6	1.1	<1.0	<1.0	1.0
Organic Parameters														
Chlorophyll a	µg/L	-	1.0	5.5	9.9	9.9	10.9	<1.0	5.0	4.0	1.5	1.1	3.1	4.0
Phaeophytin a	µg/L	-	1.0	2.3	1.6	1.7	3.0	<1.0	2.8	7.1	2.1	<1.0	<1.0	<1.0

Notes:

Sources: Canadian Council of Ministers of the Environment Canadian Water Quality Guidelines for the Protection of Aquatic Life (CWQG, CCME 2006).

DL = detection limit; - = not applicable/measured; < = less than; BOD = biochemical oxygen demand; TDS = total dissolved solids; TSS = total suspended solids; TKN = total Kjeldahl nitrogen; TP = total phosphorus; TIC = total inorganic carbon; TOC = total organic carbon; µmhos/cm = micromhos per centimetre; mg/L = milligrams per litre; TCU = true color unit; NTU = Nephelometric Turbidity Units; µg/L = micrograms per litre.

Exceeds most conservative guideline

Table - 01 - Detailed Water Chemistry Results

Waterbody	Unit	CCME CWQG PAL	DL	Reed Lake						Unnamed Creek 2	Unnamed Creek 3	Unnamed Creek 4	Unnamed Lake 1	
				RDL-F10-WQ1	RDL-F10-WQ2	RDL-F10-WQ3	RDL-F10-WQ4	RDL-F10-WQ5	RDL-F10-WQ6	UC2-F10-WQ1	UC3-F10-WQ1	UC4-F10-WQ1	UL1-F10-WQ1	UL1-F10-WQ2
				18-Sep-10			19-Sep-10			15-Sep-10	16-Sep-10	17-Sep-10	13-Sep-10	13-Sep-10
Conventional Parameters														
Total Metals														
Aluminum	mg/L	0.005 - 0.1	0.0050	0.0584	0.0652	0.0323	0.0360	0.0659	0.174	0.0696	0.0175	<0.0050	<0.0050	0.0056
Antimony	mg/L	-	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Arsenic	mg/L	0.005	0.00020	0.00069	0.00084	0.00080	0.00089	0.00056	0.00057	0.00053	0.00064	0.00067	0.00107	0.00113
Barium	mg/L	-	0.00020	0.0105	0.0108	0.0102	0.0105	0.00995	0.0131	0.0125	0.0106	0.00959	0.0177	0.0178
Beryllium	mg/L	-	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Bismuth	mg/L	-	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron	mg/L	-	0.010	<0.010	0.010	0.011	0.011	<0.010	0.010	<0.010	<0.010	<0.010	0.016	0.015
Cadmium	mg/L	0.0000002 - 0.000059	0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000011	<0.000010	<0.000010	<0.000010	<0.000010
Calcium	mg/L	-	0.10	17.0	18.0	18.2	18.0	35.4	27.3	37.1	30.5	30.2	35.4	37.1
Cesium	mg/L	-	0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Chromium	mg/L	0.001 - 0.0089	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cobalt	mg/L	-	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Copper	mg/L	0.002 - 0.004	0.00020	0.00059	0.00072	0.00080	0.00063	0.00039	0.00061	0.00087	0.00030	<0.00020	0.00028	0.00039
Iron	mg/L	0.3	0.020	0.143	0.123	0.081	0.079	0.105	0.170	0.492	0.462	0.031	<0.020	<0.020
Lead	mg/L	0.001 - 0.007	0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	0.000174	0.000137	<0.000090	<0.000090	<0.000090	<0.000090
Lithium	mg/L	-	0.0020	0.0040	0.0035	0.0040	0.0033	0.0039	0.0032	0.0026	0.0024	0.0024	0.0034	0.0042
Magnesium	mg/L	-	0.010	9.42	9.44	9.35	9.35	20.2	16.6	23.0	17.2	17.9	22.6	23.9
Manganese	mg/L	-	0.00030	0.0269	0.0277	0.0230	0.0252	0.00546	0.0143	0.0542	0.0258	0.00284	0.00649	0.00766
Mercury	mg/L	0.000026	0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Molybdenum	mg/L	0.073	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Nickel	mg/L	0.025 - 0.150	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Phosphorus	mg/L	-	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Potassium	mg/L	-	0.020	1.13	1.25	1.25	1.24	0.611	0.976	0.762	0.482	0.541	1.05	1.10
Rubidium	mg/L	-	0.00020	0.00127	0.00137	0.00131	0.00130	0.00080	0.00106	0.00104	0.00063	0.00065	0.00115	0.00116
Selenium	mg/L	0.001	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silicon	mg/L	-	0.050	1.32	1.65	1.61	1.68	3.24	2.19	3.29	3.28	2.83	2.74	2.76
Silver	mg/L	0.0001	0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium	mg/L	-	0.030	2.00	2.57	2.57	2.61	3.02	3.01	1.24	1.38	3.14	3.68	3.88
Strontium	mg/L	-	0.00010	0.0317	0.0361	0.0369	0.0366	0.0394	0.0370	0.0209	0.0267	0.0408	0.0479	0.0485
Tellurium	mg/L	-	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Thallium	mg/L	0.0008	0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Thorium	mg/L	-	0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin	mg/L	-	0.00020	<0.00020	0.00032	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Titanium	mg/L	-	0.00020	0.00257	0.00375	0.00120	0.00129	0.00266	0.00610	0.00267	0.00068	<0.00020	<0.00020	0.00028
Tungsten	mg/L	-	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Uranium	mg/L	-	0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Vanadium	mg/L	-	0.00020	0.00035	0.00041	0.00036	0.00036	0.00030	0.00050	0.00029	<0.00020	<0.00020	<0.00020	<0.00020
Zinc	mg/L	0.03	0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zirconium	mg/L	-	0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040

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				18-Sep-10			19-Sep-10			15-Sep-10	16-Sep-10	17-Sep-10	13-Sep-10	13-Sep-10
Conventional Parameters														
Dissolved Metals														
Aluminum	mg/L	-	0.0020	0.0025	<0.0020	<0.0020	<0.0020	0.0028	<0.0020	<0.0020	<0.0020	0.0026	<0.0020	<0.0020
Antimony	mg/L	-	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Arsenic	mg/L	-	0.00020	0.00067	0.00060	0.00065	0.00059	0.00063	0.00057	0.00043	0.00065	0.00068	0.00122	0.00121
Barium	mg/L	-	0.00020	0.0104	0.0103	0.0102	0.0103	0.00957	0.0121	0.0107	0.0101	0.00850	0.0185	0.0184
Beryllium	mg/L	-	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Bismuth	mg/L	-	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron	mg/L	-	0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.015	0.014
Cadmium	mg/L	-	0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Calcium	mg/L	-	0.050	16.0	16.2	16.7	16.4	30.8	23.6	33.9	29.7	30.0	31.4	31.2
Cesium	mg/L	-	0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Chromium	mg/L	-	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cobalt	mg/L	-	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Copper	mg/L	-	0.00020	0.00056	0.00054	0.00058	0.00053	0.00023	0.00038	0.00021	<0.00020	<0.00020	0.00023	0.00027
Iron	mg/L	-	0.010	0.021	<0.010	<0.010	<0.010	0.032	<0.010	0.041	0.198	0.042	<0.010	0.011
Lead	mg/L	-	0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090
Lithium	mg/L	-	0.0020	0.0034	0.0032	0.0029	0.0035	0.0037	0.0031	<0.0020	<0.0020	0.0024	0.0036	0.0034
Magnesium	mg/L	-	0.010	9.22	8.86	9.05	8.87	19.0	15.3	20.7	16.6	17.0	22.8	22.1
Manganese	mg/L	-	0.00020	0.00200	0.00015	0.00016	<0.00010	0.00234	0.00011	0.00267	0.00350	0.00146	0.00025	0.00046
Mercury	mg/L	-	0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Molybdenum	mg/L	-	0.00010	<0.00010	<0.00010	0.00013	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Nickel	mg/L	-	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Phosphorus	mg/L	-	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Potassium	mg/L	-	0.020	1.08	1.12	1.16	1.14	0.555	0.839	0.680	0.450	0.520	0.973	0.968
Rubidium	mg/L	-	0.00020	0.00118	0.00119	0.00125	0.00127	0.00066	0.00072	0.00094	0.00062	0.00062	0.00118	0.00116
Selenium	mg/L	-	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silicon	mg/L	-	0.050	1.16	1.57	1.37	1.54	3.41	1.64	3.24	3.46	3.35	2.80	3.02
Silver	mg/L	-	0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium	mg/L	-	0.020	2.01	2.50	2.47	2.55	3.02	2.77	1.14	1.34	3.09	3.78	3.72
Strontium	mg/L	-	0.00010	0.0295	0.0336	0.0341	0.0354	0.0383	0.0339	0.0196	0.0254	0.0392	0.0442	0.0434
Tellurium	mg/L	-	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Thallium	mg/L	-	0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Thorium	mg/L	-	0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin	mg/L	-	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Titanium	mg/L	-	0.00020	<0.00020	<0.00020	0.00021	<0.00020	0.00022	0.00025	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Tungsten	mg/L	-	0.0010	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Uranium	mg/L	-	0.00010	<0.00010	<0.00010	0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Vanadium	mg/L	-	0.00020	0.00040	0.00035	0.00050	0.00046	0.00030	0.00061	<0.00020	0.00057	0.00041	<0.00020	<0.00020
Zinc	mg/L	-	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Zirconium	mg/L	-	0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040

Notes:

Sources: Canadian Council of Ministers of the Environment Canadian Water Quality Guidelines for the Protection of Aquatic Life (CWQG, CCME 2006).

DL = detection limit; - = not applicable/measured; < = less than; BOD = biochemical oxygen demand; TDS = total dissolved solids; TSS = total suspended solids; TKN = total Kjeldahl nitrogen; TP = total phosphorus; TIC = total inorganic carbon; TOC = total organic carbon; µmhos/cm = micromhos per centimetre; mg/L = milligrams per litre; TCU = true color unit; NTU = Nephelometric Turbidity Units; µg/L = micrograms per litre.

Exceeds most conservative guideline

Table - 01 - Detailed Water Chemistry Results

Waterbody Station Date Sampled	Unit	CCME CWQG PAL	DL	Unnamed Lake 2		Unnamed Lake 3		Unnamed Lake 4		Unnamed Lake 5		Whitehouse Creek		Grass River	
				UL2-F10-WQ1	UL2-F10-WQ2	UL3-F10-WQ1	UL3-F10-WQ2	UL4-F10-WQ1	UL4-F10-WQ2	UL5-F10-WQ1	UL5-F10-WQ2	WHC-F10-WQ1	WHC-F10-WQ2	GRR-F10-WQ1	GRR-F10-WQ2
				13-Sep-10		12-Sep-10		10-Sep-10		12-Sep-10		16-Sep-10	18-Sep-10	18-Sep-10	16-Sep-10
Conventional Parameters															
Field-Measured Temperature	°C	-	0.01	9.84	9.40	10.45	10.51	11.95	11.42	10.35	10.43	10.54	7.85	9.59	12.47
Field-Measured pH	pH units	6.5 - 9.0	0.1	8.42	8.35	8.61	8.62	8.52	8.58	8.58	8.40	7.84	7.91	8.09	8.28
Laboratory-Measured pH	pH units	6.5 - 9.0	0.10	8.43	8.44	8.53	8.52	8.64	8.47	8.51	8.55	7.80	8.02	8.07	7.99
Conductivity	umhos/cm	-	0.40	343	344	287	287	247	250	257	257	213	232	153	137
Hardness (as CaCO ₃)	mg/L	-	0.20	180	185	194	163	131	140	139	140	118	126	77.4	66.6
True Color	T.C.U.	-	5.0	46.4	45.0	18.4	18.0	10.0	15.0	12.3	13.0	-	57.2	30.4	-
TSS	mg/L	-	5.0	6.0	7.0	6.0	8.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	6.0	<5.0
TDS	mg/L	-	5.0	212	218	190	198	192	168	146	160	130	166	108	88.0
Turbidity	NTU	-	0.10	0.73	1.67	1.73	1.84	0.72	0.86	0.66	0.65	0.42	1.49	2.20	1.62
Anions and Nutrients															
Acidity (as CaCO ₃)	mg/L	-	1.0	<1.0	<1.0	-	-	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0
Total Alkalinity (as CaCO ₃)	mg/L	-	1.0	185	185	158	158	138	138	142	142	114	123	76.3	66.9
Bicarbonate	mg/L	-	2.0	218	218	182	182	155	161	164	163	139	151	93.1	81.6
Bromide	mg/L	-	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Carbonate	mg/L	-	0.60	3.73	3.86	5.50	5.37	6.68	3.73	4.58	5.17	<0.60	<0.60	<0.60	<0.60
Chloride	mg/L	-	0.50	4.13	3.95	0.52	0.55	<0.50	<0.50	<0.50	<0.50	0.54	1.06	0.84	0.67
Fluoride	mg/L	-	0.10	<0.10	<0.10	<0.10	<0.10	-	-	<0.10	<0.10	<0.10	-	-	<0.10
Hydroxide	mg/L	-	0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Silicate (as SiO ₂)	mg/L	-	1.0	11.6	11.3	11.2	10.6	3.3	3.9	6.1	5.8	7.2	8.1	2.6	1.5
Sulfate	mg/L	-	0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Ammonia as N	mg/L	0.28 - 8.47	0.050	<0.050	<0.050	0.744	0.525	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate and Nitrite as N	mg/L	-	0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071	<0.071
Nitrate-N	mg/L	-	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrite-N	mg/L	-	0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
TKN	mg/L	-	0.20	0.71	1.07	2.36	2.32	0.80	0.74	0.78	0.79	0.53	0.47	0.60	0.54
TP	mg/L	-	0.0020	0.0178	0.0165	0.0227	0.0214	0.0222	0.0109	0.0144	0.0110	0.0140	0.0134	0.0194	0.0200
Organic / Inorganic Carbon															
DOC	mg/L	-	1.0	18.2	18.6	27.3	27.0	16.3	15.5	16.0	16.3	14.8	17.1	15.3	12.7
TIC	mg/L	-	1.0	39.5	39.4	37.1	37.3	34.6	32.4	26.9	33.4	-	-	-	-
TOC	mg/L	-	1.0	17.4	17.6	26.8	26.8	15.2	15.1	15.5	15.7	17.0	16.9	14.0	14.1
Aggregate Organics															
BOD Carbonaceous	mg/L	-	1.0	1.1	1.0	1.4	1.5	<1.0	<1.0	1.2	1.1	<1.0	1.4	1.7	1.8
Organic Parameters															
Chlorophyll a	µg/L	-	1.0	2.7	5.3	4.6	5.3	4.0	2.3	1.9	1.3	<1.0	<1.0	4.0	5.5
Phaeophytin a	µg/L	-	1.0	<1.0	1.9	1.6	1.1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.0	2.6

Notes:

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Exceeds most conservative guideline

Table - 01 - Detailed Water Chemistry Results

Waterbody Station Date Sampled	Unit	CCME CWQG PAL	DL	Unnamed Lake 2		Unnamed Lake 3		Unnamed Lake 4		Unnamed Lake 5		Whitehouse Creek		Grass River	
				UL2-F10-WQ1	UL2-F10-WQ2	UL3-F10-WQ1	UL3-F10-WQ2	UL4-F10-WQ1	UL4-F10-WQ2	UL5-F10-WQ1	UL5-F10-WQ2	WHC-F10-WQ1	WHC-F10-WQ2	GRR-F10-WQ1	GRR-F10-WQ2
				13-Sep-10		12-Sep-10		10-Sep-10		12-Sep-10		16-Sep-10	18-Sep-10	18-Sep-10	16-Sep-10
Conventional Parameters															
Total Metals															
Aluminum	mg/L	0.005 - 0.1	0.0050	<0.0050	0.0155	0.0084	0.0066	<0.0050	<0.0050	<0.0050	<0.0050	0.0075	0.0642	0.0612	0.0488
Antimony	mg/L	-	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Arsenic	mg/L	0.005	0.00020	0.00057	0.00062	0.00116	0.00115	0.00070	0.00068	0.00098	0.00099	0.00075	0.00065	0.00069	0.00074
Barium	mg/L	-	0.00020	0.0137	0.0140	0.0197	0.0191	0.00511	0.00580	0.00140	0.00128	0.00800	0.00916	0.0111	0.0108
Beryllium	mg/L	-	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Bismuth	mg/L	-	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron	mg/L	-	0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010
Cadmium	mg/L	0.0000002 - 0.000059	0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000010	<0.000010	<0.000010	0.000023	<0.000010	<0.000010	<0.000010	<0.000010
Calcium	mg/L	-	0.10	44.3	44.3	38.0	38.4	21.5	24.2	25.5	24.2	25.7	28.8	17.6	15.3
Cesium	mg/L	-	0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Chromium	mg/L	0.001 - 0.0089	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cobalt	mg/L	-	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Copper	mg/L	0.002 - 0.004	0.00020	0.00030	0.00037	0.00047	0.00044	0.00028	0.00029	0.00024	<0.00020	0.00030	0.00044	0.00060	0.00081
Iron	mg/L	0.3	0.020	<0.020	0.097	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	0.122	0.195	0.144	0.136
Lead	mg/L	0.001 - 0.007	0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	0.000099	<0.000090	<0.000090
Lithium	mg/L	-	0.0020	0.0031	0.0032	0.0029	0.0029	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0029	0.0030	0.0040
Magnesium	mg/L	-	0.010	23.8	23.0	24.1	24.0	18.8	19.3	21.3	20.8	15.2	16.5	9.77	8.48
Manganese	mg/L	-	0.00030	0.0116	0.0142	0.00581	0.00566	0.00767	0.00739	0.00695	0.00643	0.0167	0.0110	0.0281	0.0310
Mercury	mg/L	0.000026	0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Molybdenum	mg/L	0.073	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Nickel	mg/L	0.025 - 0.150	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Phosphorus	mg/L	-	0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20
Potassium	mg/L	-	0.020	0.808	0.811	1.28	1.22	0.480	0.556	0.573	0.558	0.627	0.729	1.20	1.28
Rubidium	mg/L	-	0.00020	0.00070	0.00068	0.00150	0.00145	0.00073	0.00080	0.00083	0.00083	0.00081	0.00098	0.00134	0.00134
Selenium	mg/L	0.001	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silicon	mg/L	-	0.050	5.28	5.55	5.53	5.49	1.73	1.96	2.94	2.84	3.35	4.01	1.45	3.30
Silver	mg/L	0.0001	0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium	mg/L	-	0.030	3.75	3.62	1.39	1.38	0.908	0.928	1.06	0.968	1.13	1.55	2.11	2.23
Strontium	mg/L	-	0.00010	0.0428	0.0428	0.0279	0.0263	0.0167	0.0165	0.0113	0.00961	0.0203	0.0235	0.0328	0.0334
Tellurium	mg/L	-	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Thallium	mg/L	0.0008	0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Thorium	mg/L	-	0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin	mg/L	-	0.00020	<0.00020	<0.00020	0.00036	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Titanium	mg/L	-	0.00020	<0.00020	0.00068	0.00032	0.00027	<0.00020	<0.00020	<0.00020	<0.00020	0.00033	0.00335	0.00315	0.00231
Tungsten	mg/L	-	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Uranium	mg/L	-	0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Vanadium	mg/L	-	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00065	0.00077	0.00087	0.00095	<0.00020	0.00028	0.00035	0.00040
Zinc	mg/L	0.03	0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zirconium	mg/L	-	0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040

Notes:

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Exceeds most conservative guideline

Table - 01 - Detailed Water Chemistry Results

Waterbody	Unit	CCME CWQG PAL	DL	Unnamed Lake 2		Unnamed Lake 3		Unnamed Lake 4		Unnamed Lake 5		Whitehouse Creek		Grass River	
				UL2-F10-WQ1	UL2-F10-WQ2	UL3-F10-WQ1	UL3-F10-WQ2	UL4-F10-WQ1	UL4-F10-WQ2	UL5-F10-WQ1	UL5-F10-WQ2	WHC-F10-WQ1	WHC-F10-WQ2	GRR-F10-WQ1	GRR-F10-WQ2
				13-Sep-10		12-Sep-10		10-Sep-10		12-Sep-10		16-Sep-10	18-Sep-10	18-Sep-10	16-Sep-10
Conventional Parameters															
Dissolved Metals															
Aluminum	mg/L	-	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0033	0.0027	<0.0020
Antimony	mg/L	-	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00021
Arsenic	mg/L	-	0.00020	0.00068	0.00064	0.00128	0.00125	0.00064	0.00064	0.00095	0.00094	0.00076	0.00068	0.00066	0.00087
Barium	mg/L	-	0.00020	0.0142	0.0143	0.0189	0.0191	0.00489	0.00604	0.00108	0.00127	0.00784	0.00880	0.0103	0.0110
Beryllium	mg/L	-	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Bismuth	mg/L	-	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron	mg/L	-	0.010	<0.010	<0.010	<0.010	0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Cadmium	mg/L	-	0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000025	<0.000010	0.000029	<0.000010	0.000014	<0.000010	<0.000010	0.000016
Calcium	mg/L	-	0.050	36.1	37.4	29.4	30.0	21.3	23.8	23.1	22.9	23.9	25.0	15.8	13.9
Cesium	mg/L	-	0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Chromium	mg/L	-	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00065	0.00080	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cobalt	mg/L	-	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Copper	mg/L	-	0.00020	0.00029	0.00031	0.00055	0.00033	0.00046	<0.00020	0.00028	0.00028	0.00025	0.00036	0.00048	0.00053
Iron	mg/L	-	0.010	0.033	0.027	<0.010	<0.010	0.030	0.034	<0.010	<0.010	0.068	0.082	0.019	<0.010
Lead	mg/L	-	0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090
Lithium	mg/L	-	0.0020	0.0029	0.0030	<0.0020	<0.0020	0.0020	<0.0020	<0.0020	<0.0020	<0.0020	0.0023	0.0030	0.0028
Magnesium	mg/L	-	0.010	21.7	22.3	20.9	21.3	18.9	19.1	19.7	20.2	14.1	15.4	9.23	7.75
Manganese	mg/L	-	0.00020	0.00058	0.00064	0.00031	<0.00020	0.00024	<0.00020	0.00034	<0.00020	0.00279	0.00428	0.00120	0.00033
Mercury	mg/L	-	0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Molybdenum	mg/L	-	0.00010	0.00012	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00013
Nickel	mg/L	-	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Phosphorus	mg/L	-	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Potassium	mg/L	-	0.020	0.717	0.714	0.994	0.981	0.500	0.587	0.568	0.567	0.568	0.667	1.07	1.17
Rubidium	mg/L	-	0.00020	0.00072	0.00069	0.00138	0.00140	0.00076	0.00089	0.00090	0.00085	0.00085	0.00088	0.00115	0.00128
Selenium	mg/L	-	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silicon	mg/L	-	0.050	5.80	5.90	5.56	5.51	1.46	1.72	2.90	3.22	3.49	3.78	1.38	0.626
Silver	mg/L	-	0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium	mg/L	-	0.020	3.58	3.52	1.34	1.23	0.940	0.906	0.939	0.949	1.09	1.43	1.99	2.08
Strontium	mg/L	-	0.00010	0.0397	0.0398	0.0236	0.0238	0.0175	0.0183	0.0101	0.00992	0.0193	0.0227	0.0297	0.0314
Tellurium	mg/L	-	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Thallium	mg/L	-	0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00014
Thorium	mg/L	-	0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin	mg/L	-	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Titanium	mg/L	-	0.00020	<0.00020	<0.00020	0.00032	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00027	0.00021	<0.00020
Tungsten	mg/L	-	0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.00020	<0.00020	<0.00020
Uranium	mg/L	-	0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Vanadium	mg/L	-	0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00077	0.00096	0.00124	0.00123	0.00044	0.00060	0.00042	0.00052
Zinc	mg/L	-	0.0020	<0.0020	<0.0020	0.0021	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Zirconium	mg/L	-	0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040

Notes:

Sources: Canadian Council of Ministers of the Environment Canadian Water Quality Guidelines for the Protection of Aquatic Life (CWQG, CCME 2006).

DL = detection limit; - = not applicable/measured; < = less than; BOD = biochemical oxygen demand; TDS = total dissolved solids; TSS = total suspended solids; TKN = total Kjeldahl nitrogen; TP = total phosphorus; TIC = total inorganic carbon; TOC = total organic carbon; µmhos/cm = micromhos per centimetre; mg/L = milligrams per litre; TCU = true color unit; NTU = Nephelometric Turbidity Units; µg/L = micrograms per litre.

Exceeds most conservative guideline

Table - 02 - Limnological Parameters

Waterbody	Station	UTM (NAD 83, Zone 14U)		Date	Time	Max Depth (m)	Secchi Depth (m)	Measurement Depth (m)	Water Temperature (°C)	pH	ORP (mV)	Specific Conductance (µS/cm)	Turbidity (NTU)	DO		TDS (g/L)
		Northing	Easting											mg/L	%	
Reed Lake	RDL-F10-1A	6053798	394107	18-Sep-10	15:07	2.00	1.38	0.00	9.55	7.81	252	151	10.20	14.27	129.3	0.098
								1.75	9.56	7.42	268	151	8.95	14.08	127.5	0.098
	RDL-F10-2W	6053095	393953	18-Sep-10	16:50	2.5	1.13	0.00	10.46	8.04	264	155	14.30	14.17	131.1	0.101
								2.00	10.47	7.63	283	155	13.80	12.18	112.8	0.101
	RDL-F10-3A	6053693	394474	18-Sep-10	10:39	5.0	1.63	0.00	10.70	8.26	168	157	11.70	12.47	116.1	0.102
								4.50	9.96	7.91	188	154	9.38	14.81	135.5	0.100
RDL-F10-4A	6052152	394375	19-Sep-10	10:17	4.5	1.13	0.00	9.78	8.53	150	158	10.20	13.57	123.6	0.103	
							4.00	9.88	7.72	200	158	10.30	11.33	103.4	0.102	
RDL-F10-5A	6049727	397924	19-Sep-10	13:03	0.9	bottom	0.00	7.78	7.80	209	284	16.70	12.27	106.0	0.188	
RDL-F10-6A	6049987	398510	19-Sep-10	14:00	1.0	bottom	0.00	8.22	8.72	208	236	17.70	18.30	160.5	0.154	
Unnamed Creek 2	UC2-F10-1W	6048152	396642	15-Sep-10	16:08	0.5	bottom	0.00	12.04	6.78	57	300	37.30	15.51	149.0	0.195
								0.00	10.95	7.53	137	207	15.10	11.72	109.7	0.135
Unnamed Creek 3	UC3-F10-1A	6047934	391830	16-Sep-10	13:25	1.5	bottom	0.00	11.30	7.39	105	253	61.30	10.56	99.7	0.165
Unnamed Creek 4	UC4-F10-1W	6050033	397487	17-Sep-10	11:35	2.0	bottom	0.00	7.28	7.62	195	269	0.00	13.86	118.8	0.175
Unnamed Lake 1	UL1-F10-1A	6050885	392357	13-Sep-10	14:51	1.0	bottom	0.00	10.44	8.53	174	322	5.47	18.04	167.0	0.209
								0.75	10.46	8.26	186	322	7.41	12.12	112.2	0.209
	UL1-F10-2A	6050899	392693	13-Sep-10	14:30	1.0	bottom	0.00	10.35	8.59	171	320	4.42	19.49	180.0	0.208
Unnamed Lake 2	UL2-F10-1A	6049069	392432	13-Sep-10	10:29	1.0	bottom	0.00	9.84	8.42	205	347	2.25	18.34	167.4	0.225
								0.75	9.82	8.29	210	342	2.08	14.12	128.8	0.222
	UL2-F10-2A	6049067	392559	13-Sep-10	10:13	1.0	bottom	0.00	9.40	8.35	224	347	3.18	20.46	184.8	0.225
Unnamed Lake 3	UL3-F10-1A	6048669	393542	12-Sep-10	14:27	1.0	bottom	0.00	10.45	8.61	173	284	8.17	17.64	163.3	0.185
								1.00	10.55	8.39	181	285	10.90	12.91	119.8	0.186
	UL3-F10-2A	6048567	393713	12-Sep-10	14:27	0.80	bottom	0.00	10.51	8.62	163	285	7.77	15.03	139.3	0.185
Unnamed Lake 4	UL4-F10-1A	6045405	394874	10-Sep-10	15:27	1.25	bottom	0.00	11.95	8.52	161	238	1.33	14.00	134.2	0.154
								0.05	11.42	8.58	100	246	2.05	14.17	134.2	0.160
	UL4-F10-2A	6045354	394429	10-Sep-10	15:27	-	bottom	0.05	11.42	8.58	100	246	2.05	14.17	134.2	0.160
Unnamed Lake 5	UL5-F10-1A	6046346	396371	12-Sep-10	10:00	0.9	bottom	0.00	10.35	8.58	168	255	1.79	16.97	156.7	0.166
								0.90	10.37	8.50	155	254	1.18	15.36	141.7	0.165
	UL5-F10-2A	6046302	395860	12-Sep-10	10:30	1.25	bottom	0.00	10.43	8.40	171	254	1.54	17.25	159.7	0.165
Whitehouse Creek	WHC-F10-1W	6047753	391483	16-Sep-10	10:00	0.6	bottom	0.00	10.54	7.84	148	213	2.46	11.24	104.3	-
								0.80	10.47	8.55	162	255	2.65	15.46	143.2	0.165
	WHC-F10-2W	6053038	391699	18-Sep-10	12:37	0.6	bottom	0.00	7.85	7.91	237	233	2.09	14.26	124.0	0.151
Grass River	GRR-F10-1A	6053475	392906	18-Sep-10	14:26	1.25	bottom	0.00	9.59	8.09	246	152	9.55	15.10	136.9	0.099
	GRR-F10-2W	6052866	390329	16-Sep-10	16:02	2.1	bottom	0.00	12.47	8.28	167	135	9.81	11.58	112.2	0.088

Notes:

If station code ends with W, limnology was taken with water quality sample. Otherwise, limnology was taken with sediment replicate station A.

m = metres; °C = degrees Celsius; µS/cm = microSiemens per centimetre; NTU = Nephelometric Turbidity Units; DO = dissolved oxygen; mg/L = milligrams per litre; % = percent saturation; TDS = Total Dissolved Solids; g/L = grams per litre; - = data not collected.

Table - 03 - Detailed Sediment Chemistry Results

Waterbody Station Replicate No. Date Sampled	CCME CSQG (Residential/Parkland)	Manitoba SQG		DL	Units	Reed Lake																	
		Guidelines	PEL			RDL-F10-SQ1			RDL-F10-SQ2			RDL-F10-SQ3			RDL-F10-SQ4			RDL-F10-SQ5			RDL-F10-SQ6		
						A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
						18-Sep-10									19-Sep-10								
Physical Parameters																							
Moisture	-	-	-	0.10	%	32.5	38.7	44.4	74.5	76.8	80.6	86.0	87.6	86.7	87.0	87.0	84.7	84.9	88.2	83.2	87.2	89.3	86.7
Sand (2.0mm - 0.05mm)	-	-	-	1	%	76.3	-	-	29.2	-	-	15.1	-	-	1.70	-	-	18.7	-	-	0.68	-	-
Silt (0.05mm - 2µm)	-	-	-	1	%	23.4	-	-	53.2	-	-	82.8	-	-	57.0	-	-	50.2	-	-	47.5	-	-
Clay (<2µm)	-	-	-	1	%	0.27	-	-	17.6	-	-	2.16	-	-	41.3	-	-	31.1	-	-	51.8	-	-
Nutrients																							
CaCO ₃ Equivalent	-	-	-	0.80	%	<0.80	<0.80	0.91	1.39	0.97	1.06	1.57	1.72	2.58	1.00	2.51	1.66	1.83	2.16	2.22	1.06	1.50	1.25
Inorganic Carbon	-	-	-	0.10	%	<0.10	<0.10	<0.10	0.12	<0.10	<0.10	0.11	0.14	0.23	<0.10	0.21	0.13	0.13	0.16	0.16	<0.10	0.12	<0.10
Total Carbon by Combustion	-	-	-	0.1	%	0.8	2.0	2.4	7.6	8.8	8.6	11.0	11.0	11.2	11.3	11.2	10.5	23.8	25.5	24.6	22.6	23.4	22.7
Total Organic Carbon	-	-	-	0.10	%	0.84	2.04	2.40	7.52	8.75	8.63	10.9	10.9	11.0	11.3	11.0	10.4	23.6	25.3	24.5	22.6	23.2	22.7
Total Nitrogen	-	-	-	0.020	%	0.094	0.203	0.237	0.737	0.877	0.840	1.10	1.13	1.13	1.21	1.20	1.13	1.88	2.06	1.94	1.95	2.11	1.92
Total Phosphorus	-	-	-	50	mg/kg	333	462	514	688	764	706	798	831	808	787	807	818	660	693	647	527	727	552
Metals																							
Aluminum	-	-	-	5.0	mg/kg	2,220	3,850	5,110	13,700	13,800	14,200	21,600	24,300	22,600	24,800	26,100	22,000	14,000	14,100	14,000	20,100	20,100	18,200
Antimony	-	-	-	0.10	mg/kg	<0.10	<0.10	<0.10	0.10	0.11	0.13	0.19	0.22	0.19	0.20	0.20	0.18	<0.10	0.11	0.11	<0.10	0.31	0.12
Arsenic	12	5.9	17.0	0.10	mg/kg	0.70	1.20	1.62	3.55	3.77	4.06	5.70	5.28	5.17	5.51	5.89	5.37	3.36	3.52	3.36	3.39	3.25	2.92
Barium	500	-	-	0.50	mg/kg	11.0	20.9	26.8	77.4	81.4	86.3	128	145	134	143	148	126	70.9	78.0	72.9	104	105	97.0
Beryllium	-	-	-	0.10	mg/kg	0.18	<0.10	0.29	0.50	0.51	0.60	0.93	0.98	1.06	1.05	1.05	0.78	0.12	0.35	0.40	0.31	0.18	0.64
Bismuth	-	-	-	0.020	mg/kg	<0.020	<0.020	<0.020	0.128	0.130	0.145	0.209	0.241	0.207	0.232	0.229	0.202	0.147	0.180	0.174	0.179	0.187	0.183
Boron	-	-	-	1.0	mg/kg	1.7	3.2	3.5	11.6	11.3	12.0	16.9	19.2	18.1	19.2	21.9	18.3	16.7	18.4	18.5	21.6	25.6	20.4
Cadmium	10	0.6	3.5	0.020	mg/kg	0.070	0.137	0.198	0.338	0.346	0.367	0.323	0.399	0.323	0.267	0.244	0.286	0.390	0.501	0.462	0.254	0.322	0.290
Calcium	-	-	-	100	mg/kg	1,330	2,310	2,980	5,580	6,030	5,720	6,790	7,340	6,840	6,960	7,270	6,690	14,100	13,800	14,300	12,000	11,900	10,100
Cesium	-	-	-	0.020	mg/kg	0.123	0.268	0.356	1.36	1.39	1.46	2.26	2.57	2.43	2.67	2.92	2.36	1.31	1.33	1.31	1.93	1.88	1.66
Chromium	64	37.3	90.0	1.0	mg/kg	4.9	8.7	11.8	32.2	33.5	34.7	53.2	59.1	55.4	59.4	62.1	53.6	31.6	33.0	33.4	47.0	45.5	39.9
Cobalt	-	-	-	0.020	mg/kg	1.89	2.80	3.43	8.17	8.47	8.73	12.5	13.7	13.1	13.9	14.5	12.8	7.58	7.96	7.95	11.2	10.8	9.25
Copper	63	35.7	197	1.0	mg/kg	2.1	4.6	6.7	20.9	22.3	23.3	32.6	33.9	32.3	36.5	36.2	32.4	19.7	22.5	22.5	28.6	28.1	26.0
Iron	-	-	-	25	mg/kg	3,360	5,810	7,490	18,800	20,100	20,200	30,500	33,500	31,400	33,400	34,500	30,600	14,800	15,200	15,400	21,400	20,500	17,900
Lead	140	35.0	91.3	0.20	mg/kg	1.65	2.95	3.81	10.6	11.1	12.3	13.8	16.7	14.6	13.8	13.3	14.1	11.1	14.1	14.4	10.4	10.9	11.0
Magnesium	-	-	-	10	mg/kg	1,050	1,890	2,590	6,420	6,850	7,110	10,300	11,100	10,700	11,800	12,300	10,700	8,420	8,380	8,330	10,400	10,100	9,000
Manganese	-	-	-	0.50	mg/kg	72.4	161	199	351	363	303	546	609	526	456	475	452	247	253	244	247	241	213
Mercury	6.6	0.17	0.486	0.050	mg/kg	<0.050	<0.050	<0.050	<0.050	0.052	0.054	0.061	0.063	0.054	0.054	0.057	0.068	0.086	0.080	0.052	0.064	0.055	
Molybdenum	-	-	-	0.020	mg/kg	0.036	0.080	0.125	0.258	0.263	0.334	0.429	0.476	0.497	0.596	0.557	0.457	0.417	0.456	0.407	0.493	0.446	0.441
Nickel	50	-	-	0.50	mg/kg	2.69	5.00	6.48	21.3	22.8	23.7	35.3	38.5	36.8	41.1	41.6	36.3	20.5	23.1	22.7	33.4	32.3	28.6
Phosphorus	-	-	-	100	mg/kg	370	490	550	740	740	690	770	830	750	740	700	640	690	650	650	510	600	470
Potassium	-	-	-	25	mg/kg	236	467	628	2,300	2,380	2,470	3,880	4,480	4,080	4,500	4,750	3,980	2,070	2,230	2,180	3,450	3,420	3,020
Rubidium	-	-	-	0.020	mg/kg	2.47	4.93	6.69	24.4	25.0	27.3	41.0	46.5	45.1	49.6	52.5	42.4	25.7	26.6	26.7	41.3	39.7	35.9
Selenium	1	-	-	0.50	mg/kg	<0.50	<0.50	<0.50	0.53	0.67	0.72	1.03	1.05	1.01	1.00	1.02	0.95	0.93	0.91	0.96	0.84	0.88	0.72
Silver	-	-	-	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.13	0.14	0.13	0.16	0.15	0.13	0.11	0.12	0.12	0.16	0.16	0.16
Sodium	-	-	-	10	mg/kg	55	82	101	178	197	178	245	291	265	271	275	251	174	194	180	244	376	224
Strontium	-	-	-	0.10	mg/kg	3.89	6.39	8.17	18.0	18.3	18.7	24.6	27.1	26.1	26.3	27.3	28.4	23.9	24.2	23.4	27.1	33.7	23.8
Tellurium	-	-	-	0.10	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.11	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Thallium	1	-	-	0.10	mg/kg	<0.10	<0.10	<0.10	0.15	0.16	0.15	0.25	0.29	0.28	0.31	0.32	0.28	0.16	0.17	0.17	0.24	0.23	0.20
Tin	-	-	-	5.0	mg/kg	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Titanium	-	-	-	0.50	mg/kg	97.8	173	236	666	587	607	879	944	907	922	1,030	834	526	494	500	750	717	622
Tungsten	-	-	-	0.050	mg/kg	<0.050	<0.050	<0.050	0.074	0.112	0.110	0.089	0.096	0.089	0.083	0.093	0.069	0.091	0.088	0.083	0.084	0.089	0.110
Uranium	23	-	-	0.020	mg/kg	0.860	1.08	1.25	1.56	1.55	1.59	2.37	2.60	2.44	2.43	2.49	2.02	0.904	0.899	0.912	1.22	1.10	1.04
Vanadium	130	-	-	0.50	mg/kg	5.23	9.59	13.1	33.0	33.5	34.8	53.8	60.1	56.4	60.0	63.2	54.1	26.6	27.1	27.8	40.3	39.2	34.6
Zinc	-	123	315	10	mg/kg	12	20	27	60	64	68	93	101	94	98	99	89	75	86	86	81	91	78
Zirconium	200	-	-	0.10	mg/kg	1.04	1.77	2.39	7.35	8.24	9.17	12.4	14.7	14.3	14.8	14.4	12.5	13.0	13.5	13.7	20.1	18.9	17.3

Notes:

Sources: Canadian Council of Ministers of the Environment (CCME) Canadian Soil Quality Guidelines (CSQG) for Residential/Parkland Use (CCME 2007) and Manitoba Water Quality Standards, Objectives and Guidelines (Williamson 2002).

PEL = probable effects level; DL = detection limit; % = percent; mg/kg = milligram per kilogram (dry weight); < = less than.

Exceeds CWQG	Exceeds SQG Guideline	Exceeds SQG PEL
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Table - 03 - Detailed Sediment Chemistry Results

Waterbody Station Replicate No. Date Sampled	CCME CSQG (Residential/Parkland)	Manitoba SQG		Unnamed Creek 2			Unnamed Creek 3			Unnamed Creek 4			Unnamed Lake 1						Unnamed Lake 2					
		Guidelines	PEL	UC2-F10-SQ1			UC3-F10-SQ1			UC4-F10-SQ1			UL1-F10-SQ1			UL1-F10-SQ2			UL2-F10-SQ1			UL2-F10-SQ2		
				A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
		15-Sep-10			16-Sep-10			17-Sep-10			13-Sep-10						13-Sep-10							
Physical Parameters																								
Moisture	-	-	-	94.8	95.1	90.4	91.9	89.8	97.7	95.0	95.6	94.2	97.5	97.7	96.7	97.5	97.6	97.4	90.2	90.1	96.1	94.3	94.5	94.4
Sand (2.0mm - 0.05mm)	-	-	-	4.56	-	-	31.8	-	-	4.53	-	-	1.30	-	-	1.41	-	-	11.1	-	-	2.14	-	-
Silt (0.05mm - 2µm)	-	-	-	83.5	-	-	65.1	-	-	84.0	-	-	85.0	-	-	86.1	-	-	60.9	-	-	94.8	-	-
Clay (<2µm)	-	-	-	11.9	-	-	3.13	-	-	11.5	-	-	13.7	-	-	12.5	-	-	28.0	-	-	3.07	-	-
Nutrients																								
CaCO ₃ Equivalent	-	-	-	2.93	5.33	6.33	4.74	3.42	7.33	4.84	7.58	4.97	5.78	9.74	8.21	4.67	6.68	4.97	19.0	9.65	1.94	8.92	5.85	8.49
Inorganic Carbon	-	-	-	0.31	0.45	0.62	0.38	0.26	0.68	0.40	0.68	0.43	0.54	1.00	0.75	0.40	0.52	0.42	2.12	0.93	0.17	0.95	0.61	0.91
Total Carbon by Combustion	-	-	-	37.8	37.4	39.5	37.2	39.6	41.4	44.6	43.0	38.6	38.6	35.4	38.2	40.0	39.3	38.9	28.8	37.6	37.5	36.6	36.7	35.2
Total Organic Carbon	-	-	-	37.5	37.0	38.9	36.9	39.4	40.7	44.2	42.4	38.2	38.1	34.4	37.4	39.6	38.8	38.5	26.6	36.6	37.3	35.7	36.1	34.3
Total Nitrogen	-	-	-	3.21	3.37	2.56	2.15	2.72	3.63	2.68	2.25	2.34	3.47	3.11	3.27	3.48	3.56	3.38	1.91	2.58	3.38	2.89	2.97	2.93
Total Phosphorus	-	-	-	952	1,140	1,200	703	809	644	471	467	644	644	667	553	593	636	616	1,430	1,260	1,080	678	742	821
Metals																								
Aluminum	-	-	-	3,090	3,360	1,740	1,410	3,200	1,930	527	717	1,660	2,990	3,790	4,000	4,350	3,190	3,140	2,880	1,870	3,020	3,080	2,910	2,970
Antimony	-	-	-	0.10	0.15	<0.10	<0.10	<0.10	0.16	<0.10	<0.10	<0.10	0.22	0.35	0.20	0.83	0.31	0.21	0.10	<0.10	0.12	0.15	0.17	0.17
Arsenic	12	5.9	17.0	4.11	4.56	3.93	3.26	4.01	2.62	2.25	1.54	2.29	5.02	7.81	4.75	6.80	4.92	4.72	14.5	2.86	4.49	5.10	4.35	4.29
Barium	500	-	-	48.5	49.3	85.4	45.7	56.3	45.0	37.7	44.3	30.2	44.4	54.7	49.6	51.0	45.6	45.3	104	60.4	47.5	51.1	51.4	47.0
Beryllium	-	-	-	0.19	0.26	0.12	<0.10	0.19	0.22	0.27	0.14	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.23	0.19	<0.10	<0.10	0.22	0.26
Bismuth	-	-	-	0.889	0.155	0.045	0.090	0.052	<0.020	<0.020	<0.020	0.024	0.080	0.138	0.084	0.283	0.061	0.079	0.058	0.035	0.132	0.161	0.175	0.149
Boron	-	-	-	27.1	23.8	14.9	13.4	15.0	24.4	53.4	40.0	16.8	23.8	26.6	25.9	22.5	26.3	24.5	13.2	14.6	22.3	22.8	25.2	25.6
Cadmium	10	0.6	3.5	0.889	1.27	0.449	0.268	0.367	0.391	0.099	0.122	0.340	0.534	0.787	0.491	0.627	0.405	0.401	0.438	0.456	1.23	1.33	1.50	1.38
Calcium	-	-	-	31,800	18,500	28,700	17,800	21,300	20,300	18,500	18,200	16,000	30,300	36,100	19,500	16,100	15,200	21,400	69,900	38,100	18,600	20,800	20,100	19,400
Cesium	-	-	-	0.411	0.433	0.156	0.117	0.275	0.280	0.024	0.054	0.185	0.421	0.477	0.523	0.528	0.428	0.432	0.366	0.212	0.383	0.410	0.381	0.369
Chromium	64	37.3	90.0	6.2	6.8	4.4	5.2	10.0	3.2	1.7	2.1	4.5	7.0	7.2	7.8	8.5	6.5	6.2	6.5	4.7	6.5	6.6	6.1	5.9
Cobalt	-	-	-	3.17	3.45	1.75	1.40	2.17	1.42	0.899	1.08	1.44	2.65	2.88	3.13	3.17	2.64	2.51	3.99	2.10	3.18	3.82	3.36	3.05
Copper	63	35.7	197	15.3	18.6	13.3	6.5	9.4	9.4	4.9	4.5	6.3	12.6	15.6	13.2	12.2	11.9	10.7	15.7	14.0	19.1	20.2	23.0	21.7
Iron	-	-	-	7,250	6,600	10,700	12,000	13,000	1,400	2,920	2,590	3,980	3,000	4,110	4,750	3,860	3,330	3,300	32,000	11,300	7,470	7,390	5,980	6,380
Lead	140	35.0	91.3	11.2	18.9	6.06	2.96	4.87	3.23	0.81	1.61	6.50	9.45	19.4	5.59	9.12	3.34	5.02	7.20	5.88	18.4	21.1	21.4	20.2
Magnesium	-	-	-	4,100	4,170	7,850	3,040	3,990	3,540	4,030	4,040	3,480	3,770	5,050	4,400	4,930	4,430	4,290	30,000	14,400	4,550	4,460	4,340	4,250
Manganese	-	-	-	116	86.4	401	202	302	48.6	270	204	206	116	147	122	126	113	109	1140	260	102	108	81.6	78.2
Mercury	6.6	0.17	0.486	0.119	0.173	0.119	0.068	0.092	<0.050	<0.050	<0.050	0.075	<0.050	0.074	0.053	0.060	0.051	0.058	0.107	0.105	0.150	0.188	0.187	0.186
Molybdenum	-	-	-	0.849	0.934	0.481	0.563	0.668	3.71	1.79	1.30	0.420	2.10	1.99	1.87	1.61	2.90	2.27	0.474	0.413	0.793	0.813	0.933	0.994
Nickel	50	-	-	10.9	11.4	4.21	4.79	6.81	4.87	3.90	3.18	3.10	6.49	7.76	7.60	8.31	7.05	6.46	5.29	4.27	10.6	12.4	11.6	10.8
Phosphorus	-	-	-	790	910	1,030	680	920	640	350	420	560	670	740	590	640	730	650	1,360	1,160	1,000	840	1,090	1,130
Potassium	-	-	-	489	546	419	133	318	303	81	171	238	469	567	560	599	458	437	418	435	578	485	516	641
Rubidium	-	-	-	3.84	4.20	2.25	1.35	2.91	2.41	0.496	0.749	1.94	4.75	5.67	6.15	6.55	4.68	4.85	3.07	2.55	3.94	3.90	3.67	3.75
Selenium	1	-	-	1.30	1.44	0.70	0.93	0.95	1.13	0.84	0.77	<0.50	1.65	1.91	1.82	1.70	1.42	1.43	0.57	<0.50	1.13	1.40	1.39	1.10
Silver	-	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sodium	-	-	-	131	120	43	62	77	121	533	466	167	211	238	188	250	259	228	59	48	120	124	134	130
Strontium	-	-	-	29.8	20.5	21.8	21.5	23.7	17.5	36.4	41.0	24.3	29.3	32.2	20.9	21.0	19.6	23.8	23.9	20.7	21.6	22.1	21.9	21.2
Tellurium	-	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Thallium	1	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Tin	-	-	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Titanium	-	-	-	94.0	88.4	47.4	53.9	125	42.0	14.7	21.7	55.0	80.8	92.5	106	113	83.2	82.2	70.5	55.5	77.3	84.0	71.6	73.0
Tungsten	-	-	-	0.050	0.062	<0.050	0.073	0.057	<0.050	<0.050	<0.050	<0.050	<0.050	0.074	0.066	<0.050	<0.050	<0.050	<0.050	<0.050	0.064	0.059	0.065	0.056
Uranium	23	-	-	0.817	0.581	0.797	1.07	0.960	1.54	12.8	5.01	0.470	1.91	1.69	1.46	1.57	1.75	1.54	0.573	0.550	0.511	0.550	0.597	0.624
Vanadium	130	-	-	5.34	6.03	4.90	4.56	8.59	6.40	3.08	2.25	3.15	9.99	10.3	9.29	11.3	8.43	8.08	9.01	5.27	5.69	5.55	5.35	5.39
Zinc	-	123	315	117	146	56	41	49	59	24	22	47	69	89	81	78	72	67	75	73	126	164	154	144
Zirconium	200	-	-	3.54	3.79	1.08	2.27	3.18	1.03	0.54	0.53	1.28	2.28	2.66	3.06	3.59	2.07	2.15	1.00	1.03	3.28	3.72	2.85	2.53

Notes:
Sources: Canadian Council of Ministers of the Environment (CCME) Canadian Soil Quality Guidelines (CSQG) for Residential/Parkland Use (CCME 2007) and Manitoba Water Quality Standards, Objectives and Guidelines (Williamson 2002).

PEL = probable effects level; DL = detection limit; % = percent; mg/kg = milligram per kilogram (dry weight); < = less than.

Exceeds CWQG	Exceeds SQG Guideline	Exceeds SQG PEL
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Table - 03 - Detailed Sediment Chemistry Results

Waterbody Station Replicate No. Date Sampled	CCME CSQG (Residential/Parkland)	Manitoba SQG		Unnamed Lake 3						Unnamed Lake 4						Unnamed Lake 5					
		Guidelines	PEL	UL3-F10-SQ1			UL3-F10-SQ			UL4-F10-SQ1			UL4-F10-SQ2			UL5-F10-SQ1			UL5-F10-SQ2		
				A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
				12-Sep-10						10-Sep-10						12-Sep-10					
Physical Parameters																					
Moisture	-	-	-	92.7	90.9	90.3	97.3	98.0	97.8	97.4	97.6	97.4	97.7	98.0	98.2	97.6	97.7	97.4	98.1	97.7	97.5
Sand (2.0mm - 0.05mm)	-	-	-	10.2	-	-	2.02	-	-	5.86	-	-	12.2	-	-	4.29	-	-	2.27	-	-
Silt (0.05mm - 2µm)	-	-	-	10.2	-	-	91.8	-	-	90.9	-	-	77.6	-	-	58.8	-	-	61.5	-	-
Clay (<2µm)	-	-	-	79.6	-	-	6.21	-	-	3.25	-	-	10.2	-	-	36.9	-	-	36.3	-	-
Nutrients																					
CaCO ₃ Equivalent	-	-	-	2.24	4.73	3.04	4.40	2.85	3.37	8.84	10.6	15.6	3.30	6.15	5.30	32.4	6.67	8.15	7.81	6.78	7.89
Inorganic Carbon	-	-	-	0.12	0.41	0.23	0.36	0.24	0.29	0.85	1.03	1.69	0.24	0.54	0.44	3.72	0.65	0.75	0.71	0.63	0.74
Total Carbon by Combustion	-	-	-	38.2	38.6	34.4	42.0	40.1	41.0	39.3	39.5	36.0	41.4	40.9	40.9	30.5	39.5	38.0	40.5	39.9	40.2
Total Organic Carbon	-	-	-	38.1	38.2	34.1	41.7	39.8	40.7	38.4	38.4	34.3	41.1	40.4	40.5	26.8	38.9	37.2	39.7	39.3	39.4
Total Nitrogen	-	-	-	2.16	2.47	2.49	3.40	3.53	3.50	3.64	3.65	3.32	3.80	3.63	3.76	2.37	3.45	3.34	3.58	3.50	3.46
Total Phosphorus	-	-	-	716	825	702	546	703	633	610	586	665	573	550	567	423	565	585	575	548	583
Metals																					
Aluminum	-	-	-	1,370	3,340	4,510	1,870	2,630	2,500	2,150	1,690	2,460	1,540	1,570	1,490	1,630	2,250	2,130	2,150	1,780	2,430
Antimony	-	-	-	<0.10	<0.10	<0.10	0.48	0.52	0.41	0.63	0.24	0.68	0.19	0.12	0.14	<0.10	0.25	0.18	0.51	0.18	<0.10
Arsenic	12	5.9	17.0	4.27	3.82	3.63	7.54	9.92	5.80	8.16	5.18	8.97	5.08	4.08	4.31	2.80	6.51	4.48	3.88	2.90	3.84
Barium	500	-	-	58.7	59.1	66.1	49.8	49.7	53.2	43.1	44.3	62.8	58.0	58.9	58.5	64.7	56.2	49.2	49.4	36.9	52.9
Beryllium	-	-	-	0.22	0.27	0.26	0.14	0.36	0.24	0.16	0.14	0.24	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Bismuth	-	-	-	0.072	0.028	0.044	0.243	0.240	0.145	0.406	0.065	0.385	0.049	0.034	0.047	0.020	0.143	0.048	0.025	<0.020	0.030
Boron	-	-	-	12.0	14.6	12.0	22.6	19.3	22.8	26.2	27.7	24.7	31.7	28.6	32.2	24.2	27.2	25.2	27.0	21.3	25.5
Cadmium	10	0.6	3.5	0.315	0.339	0.308	0.574	1.42	0.697	1.01	0.416	1.87	0.355	0.338	0.352	0.299	0.520	0.474	0.454	0.346	0.438
Calcium	-	-	-	18,100	19,000	18,200	17,000	14,700	16,600	27,800	36,300	61,400	25,000	29,800	27,300	97,100	23,300	20,100	19,700	17,000	25,400
Cesium	-	-	-	0.108	0.293	0.413	0.289	0.349	0.341	0.253	0.198	0.325	0.205	0.204	0.209	0.247	0.342	0.330	0.272	0.226	0.317
Chromium	64	37.3	90.0	4.8	9.0	12.2	3.4	5.0	4.4	4.7	3.2	4.4	3.9	4.0	3.8	3.5	4.8	4.3	4.3	3.6	4.8
Cobalt	-	-	-	1.56	2.18	2.82	1.48	1.77	1.79	2.38	2.08	2.08	1.97	1.96	1.82	1.53	1.99	1.94	2.13	1.84	2.33
Copper	63	35.7	197	5.8	8.5	9.7	9.6	22.0	13.9	20.3	15.6	30.2	12.8	11.5	11.3	8.3	11.9	10.5	12.7	10.0	13.2
Iron	-	-	-	17,100	13,000	16,600	1,860	2,730	2,490	3,730	3,030	6,390	3,180	3,790	2,800	3,480	3,090	2,590	2,260	1,740	2,430
Lead	140	35.0	91.3	3.57	4.70	4.15	9.64	48.1	11.1	29.2	5.19	47.3	3.63	2.36	3.58	1.83	6.68	5.08	1.95	1.46	1.97
Magnesium	-	-	-	3,110	4,030	4,010	3,950	3,950	4,060	5,170	5,930	5,310	5,690	6,630	5,430	8,110	8,200	7,450	6,750	6,260	9,990
Manganese	-	-	-	261	235	284	55.1	48.7	62.6	80.6	84.9	132	96.6	96.7	101	216	87.8	72.8	74.6	61.0	84.0
Mercury	6.6	0.17	0.486	0.082	0.088	0.073	0.070	0.137	0.080	0.124	0.090	0.197	0.092	0.071	0.087	0.053	0.069	0.063	0.055	<0.050	0.052
Molybdenum	-	-	-	0.449	0.566	0.474	1.61	1.64	2.28	2.05	2.73	1.61	3.01	2.28	2.65	1.70	1.86	1.73	2.40	2.14	2.75
Nickel	50	-	-	3.90	6.62	8.13	5.07	8.48	6.34	9.19	8.92	8.98	8.06	8.27	7.74	7.74	8.11	7.23	7.90	6.29	8.10
Phosphorus	-	-	-	620	740	710	550	720	620	660	610	710	650	570	620	570	660	640	720	510	640
Potassium	-	-	-	244	347	483	297	477	385	312	266	482	230	208	215	248	323	291	267	209	303
Rubidium	-	-	-	1.28	2.82	3.81	2.51	4.06	3.35	3.16	1.88	3.86	2.04	2.07	2.04	2.50	3.46	3.23	2.88	2.33	3.25
Selenium	1	-	-	<0.50	0.77	0.91	1.25	1.95	1.46	2.06	1.53	1.67	1.52	1.53	1.50	1.22	1.63	1.58	1.72	1.43	1.73
Silver	-	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.11	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sodium	-	-	-	136	72	135	76	92	95	100	139	108	144	132	140	113	108	123	114	77	102
Strontium	-	-	-	21.3	21.1	21.5	13.2	10.7	13.1	18.5	19.7	24.9	22.9	25.5	24.6	30.5	17.9	14.9	17.6	12.9	18.5
Tellurium	-	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.18	<0.10	0.11	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Thallium	1	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Tin	-	-	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	30.8	<5.0	<5.0	<5.0
Titanium	-	-	-	52.5	125	175	45.7	52.5	64.5	48.9	39.6	52.8	37.1	39.7	35.6	39.0	52.9	49.4	47.1	36.9	57.9
Tungsten	-	-	-	<0.050	<0.050	0.074	<0.050	<0.050	<0.050	<0.050	<0.050	0.062	<0.050	<0.050	<0.050	<0.050	0.068	<0.050	<0.050	<0.050	<0.050
Uranium	23	-	-	0.525	0.904	1.05	1.06	0.963	1.47	1.55	1.72	1.13	1.51	1.39	1.48	0.416	0.594	0.520	0.795	0.797	0.874
Vanadium	130	-	-	3.72	8.10	10.6	5.44	8.57	7.60	7.29	5.68	7.70	5.08	4.99	4.97	4.18	5.83	5.39	6.59	5.71	7.13
Zinc	-	123	315	43	46	44	56	118	82	84	64	150	85	73	79	56	76	72	79	57	81
Zirconium	200	-	-	2.30	3.37	4.30	1.35	1.56	1.86	2.12	1.37	1.65	1.33	1.70	1.34	1.58	2.09	1.95	1.87	1.76	2.43

Notes:

Sources: Canadian Council of Ministers of the Environment (CCME) Canadian Soil Quality Guidelines (CSQG) for Residential/Parkland Use (CCME 2007) and Manitoba Water Quality Standards, Objectives and Guidelines (Williamson 2002).

PEL = probable effects level; DL = detection limit; % = percent; mg/kg = milligram per kilogram (dry weight); < = less than.

Exceeds CWQG	Exceeds SQG Guideline	Exceeds SQG PEL
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Table - 03 - Detailed Sediment Chemistry Results

Waterbody Station Replicate No. Date Sampled	CCME CSQG (Residential/Parkland)	Manitoba SQG		Whitehouse Creek						Grass River					
		Guidelines	PEL	WHC-F10-SQ1			WHC-F10-SQ2			GRR-F10-SQ1			GRR-F10-SQ2		
				A	B	C	A	B	C	A	B	C	A	B	C
				16-Sep-10			18-Sep-10			18-Sep-10			16-Sep-10		
Physical Parameters															
Moisture	-	-	-	87.4	88.4	86.3	46.2	60.3	57.4	54.8	49.4	47.1	66.6	48.1	70.1
Sand (2.0mm - 0.05mm)	-	-	-	11.8	-	-	48.9	-	-	84.4	-	-	36.6	-	-
Silt (0.05mm - 2µm)	-	-	-	72.5	-	-	34.8	-	-	14.8	-	-	37.9	-	-
Clay (<2µm)	-	-	-	15.7	-	-	16.4	-	-	0.71	-	-	25.5	-	-
Nutrients															
CaCO ₃ Equivalent	-	-	-	11.7	9.19	11.1	1.28	1.26	2.17	1.23	0.99	1.27	0.88	0.81	2.02
Inorganic Carbon	-	-	-	1.21	0.90	1.16	<0.10	<0.10	0.18	<0.10	<0.10	<0.10	<0.10	<0.10	0.15
Total Carbon by Combustion	-	-	-	33.4	34.5	26.8	6.0	8.5	7.5	3.1	3.2	2.7	4.0	2.1	10.3
Total Organic Carbon	-	-	-	32.2	33.6	25.7	5.98	8.50	7.33	3.12	3.24	2.72	4.02	2.05	10.2
Total Nitrogen	-	-	-	1.98	2.05	1.52	0.430	0.549	0.533	0.292	0.278	0.249	0.347	0.235	0.732
Total Phosphorus	-	-	-	759	728	686	448	448	493	391	417	434	439	371	594
Metals															
Aluminum	-	-	-	3,980	4,650	4,170	11,600	13,400	11,400	5,190	5,100	4,370	22,300	8,030	12,000
Antimony	-	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.12
Arsenic	12	5.9	17.0	10.1	9.22	13.7	1.39	1.75	1.64	1.77	1.82	1.59	2.97	1.18	3.60
Barium	500	-	-	106	92.8	124	54.6	68.6	54.7	29.7	27.1	24.0	105	23.8	70.6
Beryllium	-	-	-	<0.10	0.10	0.25	0.23	0.19	0.27	<0.10	<0.10	<0.10	0.45	<0.10	0.31
Bismuth	-	-	-	0.089	0.082	0.075	0.074	0.112	0.088	0.045	0.040	0.037	0.149	0.027	0.125
Boron	-	-	-	9.5	11.0	10.6	7.5	9.4	7.4	4.1	4.0	4.1	14.2	4.4	8.5
Cadmium	10	0.6	3.5	0.487	0.501	0.415	0.072	0.102	0.094	0.225	0.209	0.195	0.136	0.120	0.275
Calcium	-	-	-	34,500	31,900	37,300	5,970	8,250	7,220	2,870	2,840	2,540	4,760	2,400	6,630
Cesium	-	-	-	0.425	0.476	0.445	0.904	1.08	0.898	0.368	0.358	0.300	1.53	0.250	0.937
Chromium	64	37.3	90.0	13.7	14.9	13.3	29.4	35.9	29.0	11.7	11.1	9.6	49.9	15.6	31.2
Cobalt	-	-	-	4.31	4.44	4.35	6.17	7.22	6.31	3.92	4.16	3.72	13.4	5.04	7.12
Copper	63	35.7	197	12.0	12.1	10.1	13.0	19.9	13.5	7.2	6.6	5.8	29.6	4.2	22.8
Iron	-	-	-	21,800	22,700	26,400	13,700	16,700	14,800	7,330	7,030	6,310	35,000	10,400	15,500
Lead	140	35.0	91.3	6.39	6.63	5.99	4.22	5.49	4.52	3.90	3.80	3.37	10.1	2.94	9.19
Magnesium	-	-	-	13,300	12,600	16,300	5,380	6,700	5,550	2,760	2,610	2,300	11,500	4,660	5,680
Manganese	-	-	-	2290	1250	1630	271	324	434	262	234	214	321	224	435
Mercury	6.6	0.17	0.486	0.085	0.081	0.082	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Molybdenum	-	-	-	0.450	0.448	0.335	0.173	0.268	0.156	0.113	0.109	0.109	0.246	0.132	0.280
Nickel	50	-	-	8.41	8.94	7.83	14.4	18.5	13.9	7.01	6.39	5.70	30.7	7.39	19.0
Phosphorus	-	-	-	820	800	970	510	540	580	510	530	480	480	420	640
Potassium	-	-	-	552	666	558	1,250	1,580	1,360	596	583	470	3,430	495	1,730
Rubidium	-	-	-	6.02	7.15	6.42	13.9	17.6	15.6	7.60	7.20	6.17	38.8	4.96	19.5
Selenium	1	-	-	1.30	1.13	0.96	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.68
Silver	-	-	-	<0.10	<0.10	<0.10	<0.10	0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sodium	-	-	-	67	72	70	124	153	128	91	99	87	230	96	142
Strontium	-	-	-	24.5	23.8	24.3	12.9	16.6	13.5	8.65	8.58	7.87	23.4	6.70	21.0
Tellurium	-	-	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Thallium	1	-	-	<0.10	<0.10	<0.10	0.11	0.14	0.11	<0.10	<0.10	<0.10	0.22	<0.10	0.13
Tin	-	-	-	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Titanium	-	-	-	199	213	204	493	627	508	213	220	183	880	300	525
Tungsten	-	-	-	0.065	0.076	<0.050	0.070	0.075	0.083	<0.050	<0.050	<0.050	0.075	<0.050	0.336
Uranium	23	-	-	0.716	0.712	0.667	1.11	1.34	1.20	1.13	1.18	0.983	1.34	0.792	2.13
Vanadium	130	-	-	11.6	12.3	11.9	26.3	32.8	26.1	13.4	12.8	11.2	73.0	23.4	33.2
Zinc	-	123	315	93	97	83	41	54	46	27	28	23	64	26	50
Zirconium	200	-	-	4.60	5.89	4.48	7.93	12.8	5.96	2.15	2.24	1.98	13.1	1.45	10.1

Notes:

Sources: Canadian Council of Ministers of the Environment (CCME) Canadian Soil Quality Guidelines (CSQG) for Residential/Parkland Use (CCME 2007) and Manitoba Water Quality Standards, Objectives and Guidelines (Williamson 2002).

PEL = probable effects level; DL = detection limit; % = percent; mg/kg = milligram per kilogram (dry weight); < = less than.

Exceeds CWQG	Exceeds SQG Guideline	Exceeds SQG PEL
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Table - 04 - Phytoplankton Biovolume (mm³/L)

Class	Species	Reed Lake	Unnamed Lake 1	Unnamed Lake 2	Unnamed Lake 3	Unnamed Lake 4	Unnamed Lake 5	Whitehouse Creek	Grass River
Bacillariophyceae	<i>Amphiprora sp.</i>	0.0072	-	-	-	-	-	-	-
	<i>Amphora sp.</i>	-	-	-	-	-	0.0120	-	-
	<i>Asterionella formosa</i>	0.0171	-	-	-	-	-	-	0.0201
	<i>Cocconeis sp.</i>	0.0050	-	-	-	-	-	0.0072	0.0225
	<i>Cyclotella sp.</i>	0.0019	0.0267	0.0019	1.0560	0.0576	0.0576	0.0008	0.0048
	<i>Cymbella sp.</i>	-	0.0054	-	-	0.0029	0.0130	-	0.0016
	<i>Diatoma sp.</i>	0.0041	-	-	-	-	-	-	0.0025
	<i>Fragilaria crotonensis</i>	-	-	0.0003	-	-	0.0006	-	0.0101
	<i>Fragilaria sp.</i>	-	-	0.0015	-	-	-	-	-
	<i>Gomphonema sp.</i>	-	-	-	-	-	-	0.0002	-
	<i>Melosira sp.</i>	0.0276	-	-	-	-	-	-	0.1140
	<i>Navicula sp.</i>	0.0014	0.0064	0.0060	0.0397	0.0072	0.0816	-	0.0036
	<i>Nitzschia sp.</i>	0.0480	0.0480	0.0155	0.0155	0.0186	0.0046	0.0024	0.0218
	<i>Pinnularia sp.</i>	-	-	0.0108	-	0.0192	-	-	-
	<i>Rhizosolenia sp.</i>	0.0083	0.0083	-	-	-	-	-	0.0041
	<i>Rhopalodia gibba</i>	-	-	-	-	0.0096	-	-	-
	<i>Stephanodiscus sp.</i>	0.0432	-	-	-	-	-	-	0.0450
	<i>Surirella sp.</i>	-	-	-	-	-	0.0088	-	-
<i>Synedra sp.</i>	0.0467	0.7309	0.0467	0.0151	0.0010	0.0030	0.0042	0.0622	
<i>Tabellaria sp.</i>	0.0043	-	0.0101	-	-	-	-	0.0558	
<i>Tropidoneis sp.</i>	-	-	-	-	-	-	-	0.0008	
Bacillariophyceae Total		0.2147	0.8257	0.0927	1.1262	0.1161	0.1811	0.0147	0.3689
Chlorophyceae	<i>Actinastrum sp.</i>	-	-	-	-	-	-	0.0009	-
	<i>Ankistrodesmus spiralis</i>	-	0.0006	-	0.0134	-	-	-	-
	<i>Botryococcus sp.</i>	0.0256	0.0176	0.0378	0.2560	0.0108	0.0270	-	0.0864
	<i>Cosmarium sp.</i>	-	-	-	-	-	0.0021	-	-
	<i>Crucigenia quadrata</i>	-	-	0.0005	-	-	-	-	-
	<i>Crucigenia tetrapedia</i>	0.0002	-	0.0005	-	-	-	0.0005	0.0004
	<i>Dictyosphaerium sp.</i>	0.0324	-	-	-	-	-	-	-
	<i>Elakatothrix sp.</i>	0.0022	0.0104	0.0002	0.0089	-	0.0012	-	0.0005
	<i>Kirchneriella sp.</i>	-	-	-	-	-	-	-	0.0008
	<i>Monoraphidium sp.</i>	0.0023	0.0046	0.0013	0.0230	0.0092	0.0069	0.0007	0.0046
	<i>Mougeotia sp.</i>	0.1950	-	-	-	-	-	-	0.3250
	<i>Oedogonium sp.</i>	-	0.0046	0.0008	-	-	0.0027	-	0.0048
	<i>Oocystis sp.</i>	-	-	-	-	0.0027	-	-	0.0015
	<i>Pediastrum biradiatum</i>	0.0030	-	-	-	-	-	-	-
	<i>Pediastrum boryanum</i>	0.0799	0.0058	-	0.0216	-	-	-	0.0185
	<i>Pediastrum kawraiskyi</i>	0.0022	-	-	-	-	-	-	0.0080
	<i>Pediastrum tetras</i>	0.0019	0.0011	0.0033	0.0009	-	0.0003	0.0002	0.0003
	<i>Planktosphaeria sp.</i>	-	0.0108	-	0.1674	-	-	-	-
	<i>Quadrigula sp.</i>	0.0003	-	-	-	-	-	-	-
<i>Scenedesmus arcuatus</i>	-	-	0.0008	-	-	-	-	-	
<i>Scenedesmus quadricauda</i>	0.0307	-	0.0008	-	-	-	0.0003	0.0079	
Chlorophyceae (cont'd)	<i>Scenedesmus sp.</i>	-	0.0307	0.0061	0.0008	0.0016	0.0016	0.0001	0.0161
	<i>Selenastrum sp.</i>	-	0.0003	-	-	-	-	-	-
	<i>Staurastrum sp.</i>	0.0014	-	0.0001	-	-	-	-	0.0027
	<i>Tetraedron caudatum</i>	-	0.0008	-	0.0032	-	0.0098	-	-
	<i>Tetraedron minimum</i>	0.0003	0.0207	-	0.0013	-	0.0041	-	0.0026
	<i>Tetraedron muticum</i>	-	0.0041	0.0003	0.0027	-	0.0011	-	-
Chlorophyceae Total		0.3774	0.1122	0.0525	0.4992	0.0243	0.0568	0.0027	0.4801
Chrysophyceae	<i>Bitrichia sp.</i>	-	0.0276	0.0007	-	0.0003	0.0055	-	0.0003
	<i>Dinobryon bavaricum</i>	0.0311	-	-	-	-	-	-	0.0415
	<i>Dinobryon sp.</i>	0.1970	0.2903	0.1037	0.3110	0.1140	0.0311	0.0001	0.1140
	<i>Mallomonas sp.</i>	0.0384	-	-	-	-	-	-	-
	<i>Synura uvella (colonies)</i>	-	-	-	-	-	-	-	0.0432
	unidentified	0.0786	0.1180	0.1180	0.2765	0.1278	0.0836	0.0111	0.0762
Chrysophyceae Total		0.3451	0.4359	0.2224	0.5875	0.2422	0.1202	0.0111	0.2753
Cryptophyceae	<i>Cryptomonas sp.</i>	0.2532	0.6912	0.0372	1.1160	0.3576	0.2976	0.0888	0.4164
	<i>Rhodomonas sp.</i>	0.0484	0.0760	0.0899	0.0346	0.0484	0.0207	0.0622	0.1797
Cryptophyceae Total		0.3016	0.7672	0.1271	1.1506	0.4060	0.3183	0.1510	0.5961
Euglenophyceae	<i>Euglena sp.</i>	0.0168	-	-	-	-	-	-	-
	<i>Trachelomonas sp.</i>	0.0045	0.0024	-	-	-	-	0.0009	0.0009
Euglenophyceae Total		0.0213	0.0024	-	-	-	-	0.0009	0.0009
Myxophyceae	<i>Anabaena sp.</i>	0.0069	0.0216	-	0.0346	0.0026	-	-	0.0052
	<i>Aphanizomenon sp.</i>	-	-	-	-	-	-	-	0.0048
	<i>Aphanocapsa sp.</i>	0.1600	0.1536	0.0128	-	-	0.2592	-	0.1500
	<i>Aphanothece sp.</i>	0.0594	1.6896	0.1944	5.1840	0.1296	0.2592	0.0096	1.0368
	<i>Chroococcus sp.</i>	0.0081	0.0628	-	0.0372	0.0192	0.0089	-	-
	<i>Gomphosphaeria sp.</i>	0.0324	0.1674	-	0.0640	0.1350	0.2349	-	0.0324
	<i>Merismopedia sp.</i>	0.0003	0.0004	-	0.0008	0.0001	0.0006	-	-
	<i>Microcystis sp.</i>	-	0.3456	0.3456	7.0000	1.6000	1.2000	-	-
	<i>Microcystis wesenbergii</i>	0.0128	-	-	-	-	-	-	-
	<i>Oscillatoria sp.</i>	0.0029	-	-	-	-	-	-	0.0026
	<i>Planktolynbya sp.</i>	0.0461	0.1521	0.0645	0.2419	0.2580	0.6774	-	0.0760
	<i>Pseudoanabaena sp.</i>	0.0092	0.0003	0.0003	0.0045	0.0230	0.0484	0.0054	0.0369
Myxophyceae Total		0.3381	2.5933	0.6176	12.5669	2.1676	2.6886	0.0150	1.3447
Peridinea	<i>Ceratium rhomvodes</i>	-	-	-	-	-	0.0768	-	-
	<i>Glenodinium sp.</i>	0.0038	0.0225	0.0694	-	0.0120	0.0054	-	0.0189
	<i>Gymnodinium sp.</i>	0.0225	0.1953	0.1953	0.0375	0.0144	0.0113	-	-
	<i>Peridinium sp.</i>	-	0.0810	-	-	0.0048	-	-	-
Peridinea Total		0.0263	0.2988	0.2647	0.0375	0.0312	0.0935	-	0.0189
Grand Total		1.6245	5.0356	1.3769	15.9680	2.9874	3.4585	0.1954	3.0848

Notes:

Numbers shown are cubic millimetre per Litre.

- = not applicable

Table - 05 - Zooplankton Abundance (n/m³)

Class	Species	Reed Lake	Unnamed Lake 1	Unnamed Lake 2	Unnamed Lake 3	Unnamed Lake 4	Unnamed Lake 5	Whitehouse Creek	Grass River
Branchiopoda	<i>Alona sp.</i>	23.9	-	55.8	-	-	-	239.1	-
	<i>Bosmina sp.</i>	167.4	223.0	195.2	1,697.9	143.5	35.9	-	287.0
Branchiopoda Total		191.3	223.0	250.9	1,697.9	143.5	35.9	239.1	287.0
Ciliata	<i>Epistylis sp.</i>	-	167.3	-	167.4	526.1	215.2	-	-
	<i>Strobilidium sp.</i>	-	55.8	-	-	-	-	-	-
	<i>Trachelius sp.</i>	-	-	474.0	-	-	-	239.1	-
	<i>Vorticella sp.</i>	502.2	2,230.4	390.3	-	1,602.2	1,913.1	-	1,052.2
	unidentified	-	-	724.9	-	-	-	12.0	-
Ciliata Total		502.2	2,453.4	1,589.2	167.4	2,128.3	2,140.3	239.1	1,052.2
Copepoda	<i>Cyclops sp.</i>	-	-	27.9	382.6	-	12.0	-	-
	<i>Diaptomus sp.</i>	-	167.3	55.8	1,937.0	71.7	35.9	-	-
	Naupilii	95.7	2,732.2	1,031.6	382.6	884.8	119.6	-	215.2
	unidentified	23.9	-	27.9	-	-	-	478.3	71.7
Copepoda Total		119.6	2,899.5	1,143.1	2,702.3	956.6	167.4	478.3	287.0
Gastrotricha	<i>Chaetonotus sp.</i>	-	27.9	-	-	-	-	-	-
	Gastrotricha Total		-	27.9	-	-	-	-	-
Heliozoa	<i>Actinosphaerium sp.</i>	-	27.9	27.9	-	23.9	-	-	-
Heliozoa Total		-	27.9	27.9	-	23.9	-	-	-
Insecta	unidentified	-	-	-	-	23.9	-	-	-
Insecta Total		-	-	-	-	23.9	-	-	-
Monogononta	<i>Asplanchna sp.</i>	669.6	55.8	1,254.6	215.2	71.7	179.4	-	717.4
	<i>Collotheca sp.</i>	47.8	27.9	83.6	47.8	23.9	-	-	23.9
	<i>Colurella sp.</i>	-	-	27.9	-	-	-	239.1	23.9
	<i>Conochiloides sp.</i>	-	-	-	-	23.9	-	-	-
	<i>Conochilus sp.</i>	-	223.0	250.9	1,554.4	334.8	95.7	-	-
	<i>Gastropus sp.</i>	119.6	947.9	557.6	-	860.9	83.7	239.1	430.5
	<i>Kellicottia longispina</i>	71.7	501.8	167.3	1,124.0	-	-	-	167.4
	<i>Keratella sp.</i>	5,117.6	11,235.6	4,042.6	47.8	6,289.4	3,120.8	717.4	7,054.6
	<i>Lecane sp.</i>	-	27.9	27.9	-	-	-	-	-
	<i>Lepadella sp.</i>	-	-	-	-	23.9	-	239.1	23.9
	<i>Monostyla sp.</i>	-	55.8	-	-	47.8	12.0	239.1	23.9
	<i>Ploesoma sp.</i>	-	-	-	-	-	-	-	23.9
	<i>Polyarthra sp.</i>	2,582.7	1,868.0	306.7	167.4	10,856.9	1,506.6	239.1	3,204.5
	<i>Trichocerca sp.</i>	-	27.9	-	-	-	-	-	-
<i>Trichotria sp.</i>	71.7	-	55.8	-	47.8	23.9	-	47.8	
Monogononta Total		8,680.8	14,971.6	6,774.8	3,156.6	18,581.1	5,021.9	1,913.1	11,741.7
Oligochaeta	unidentified	-	-	-	-	-	-	239.1	-
Oligochaeta Total		-	-	-	-	-	-	239.1	-
Unidentified	unidentified	143.5	306.7	-	47.8	-	35.9	-	-
Unidentified Total		143.5	306.7	-	47.8	-	35.9	-	-
Grand Total		9,637.3	20,910.0	9,785.9	7,772.0	21,857.3	7,401.4	3,108.8	13,367.9

Notes:

Numbers shown are individuals per cubic metre.

- = not applicable

Table 06 - Benthic Invertebrate Abundance (n/m²)

Class	Order	Family	Species	Reed Lake						Unnamed Creek 2	Unnamed Creek 3	Unnamed Creek 4	Unnamed Lake 1		
				RDL-F10-BIC1A	RDL-F10-BIC2A	RDL-F10-BIC3A	RDL-F10-BIC4A	RDL-F10-BIC5A	RDL-F10-BIC6A	UC2-F10-BIC1A	UC3-F10-BIC1A	UC4-F10-BIC1A	UL1-F10-BIC1A	UL1-F10-BIC2A	
Annelida	Hirudinea	Erpobdellidae	<i>Dina sp.</i>	50	-	-	-	-	-	-	-	-	-	-	
			<i>Nepheleopsis obscura</i>	-	-	-	-	50	-	-	-	-	-	-	
		Glossiphoniidae	<i>Glossiphonia complanata</i>	-	-	-	-	-	-	50	-	-	-	-	-
			<i>Helobdella stagnalis</i>	650	200	-	50	-	-	-	-	-	-	-	-
	<i>Theromyzon sp.</i>		50	-	-	-	-	-	-	-	-	-	-	-	
	Oligochaeta	Lumbriculidae	<i>Lumbriculus sp.</i>	-	-	-	-	-	-	-	50	-	-	-	-
		Naididae	<i>Dero sp.</i>	100	-	-	-	-	-	-	-	-	-	-	-
			<i>Nais sp.</i>	-	-	-	-	50	-	-	-	-	-	-	-
			<i>Pristina sp.</i>	-	-	-	-	50	-	-	-	-	-	-	-
			<i>Slavina appendiculata</i>	-	50	-	-	-	-	50	-	-	-	-	-
<i>Stylaria lacustris</i>			150	-	-	-	-	-	-	-	-	-	-	-	
Tubificidae	unidentified	4,250	350	-	-	100	-	750	-	150	-	-			
Arachnoidea	Araneae	unidentified	-	-	-	-	-	-	-	-	-	-	-		
	Orbatida	Hydrozetidae	<i>Hydrozetes sp.</i>	-	-	-	-	-	-	-	-	-	-		
	Trombidiformes	Lebertiidae	<i>Oxus sp.</i>	-	-	-	-	-	-	-	-	-	-	-	
		Pionidae	<i>Forelia sp.</i>	50	50	-	-	-	50	-	-	-	-	-	
			<i>Piona sp.</i>	50	-	-	-	-	-	-	-	-	-	-	
		Sperchonidae	<i>Sperchon sp.</i>	-	-	-	-	-	-	-	-	-	-	-	
	Unionicolidae	<i>Neumania sp.</i>	-	-	-	-	-	-	-	-	-	50	-		
<i>Unionicola sp.</i>		-	-	-	-	-	50	-	-	100	-	-			
Crustacea	Amphipoda	Gammaridae	<i>Gammarus sp.</i>	-	-	-	-	50	-	-	-	100	-	50	
		Hyalellidae	<i>Hyalella azteca</i>	2,500	250	-	-	3,600	2,400	-	750	-	400	1,200	
	Cladocera	unidentified	2,550	200	-	50	-	-	-	-	450	-	-		
	Copepoda	Calanoida	unidentified	-	2,550	-	-	50	150	-	-	-	-	-	
		Cyclopoida	unidentified	150	300	-	-	-	150	100	400	1,350	50	50	
		Harpacticoida	unidentified	50	200	-	-	-	-	-	-	-	-	-	
Ostracoda	unidentified	800	350	100	100	600	750	-	2,100	200	-	150			
Gastropoda	Basommatophora	Physidae	<i>Physa sp.</i>	-	-	50	-	-	-	-	-	-	-		
		Planorbidae	<i>Gyraulus sp.</i>	850	-	-	-	-	50	-	-	-	-	-	
	Neotaenioglossa	Hydrobiidae	<i>Amnicola limosa</i>	250	200	-	-	-	-	-	-	-	-		
		unidentified	-	50	-	-	-	-	-	-	-	-	-		
	Prosobranchia	Valvatidae	unidentified	-	-	-	-	-	-	-	-	-	-	-	
			<i>Valvata sincera</i>	100	-	-	-	-	-	-	50	-	-	-	
			<i>Valvata sincera var. ontariensis</i>	-	-	-	-	-	-	-	-	-	-	-	
<i>Valvata sp.</i>			-	-	-	-	-	-	-	-	-	-	-		
<i>Valvata tricarinata</i>	700	250	-	-	-	-	-	-	-	-	-	-			
Insecta	Coleoptera	unidentified	-	-	-	-	-	-	-	-	-	-	-		
		Chrysomelidae	unidentified	-	-	-	-	-	-	50	-	-	-	-	
		Dytiscidae	<i>Hydroporus sp.</i>	-	-	-	-	-	-	-	-	-	-	-	
		Elmidae	<i>Dubiraphia sp.</i>	-	-	-	-	-	-	-	-	-	-	-	
		Haliplidae	<i>Haliplus sp.</i>	-	-	-	-	-	-	-	-	50	-	-	
	Staphylinidae	unidentified	-	-	-	-	-	-	-	-	-	-	-		
	Collembola	Isotomidae	<i>Isotoma sp.</i>	-	-	-	-	-	-	-	250	-	-	-	
			<i>Isotomurus tricolor</i>	-	-	100	-	-	-	-	-	-	-	-	
	Poduridae	unidentified	-	-	-	-	-	-	-	-	-	-	-		
	Diptera	unidentified	-	-	-	-	-	-	-	-	-	-	-	50	
Ceratopogonidae		unidentified	100	300	-	50	50	50	50	100	-	-	-		

Notes:
 Numbers shown are individuals per square metre.
 - = not applicable

Table 06 - Benthic Invertebrate Abundance (n/m²) (cont't)

Class	Order	Family	Species	Reed Lake						Unnamed Creek 2	Unnamed Creek 3	Unnamed Creek 4	Unnamed Lake 1		
				RDL-F10-BIC1A	RDL-F10-BIC2A	RDL-F10-BIC3A	RDL-F10-BIC4A	RDL-F10-BIC5A	RDL-F10-BIC6A	UC2-F10-BIC1A	UC3-F10-BIC1A	UC4-F10-BIC1A	UL1-F10-BIC1A	UL1-F10-BIC2A	
Insecta (cont'd)	Diptera (cont'd)	Chaoboridae	<i>Chaoborus sp.</i>	50	50	-	100	50	100	-	-	50	-	150	
		Chironomidae	unidentified	11,850	4,600	-	100	1,700	650	550	2,350	1,250	-	450	
		Simuliidae	<i>Simulium sp.</i>	-	-	-	-	-	-	-	-	-	-	-	-
		Tabanidae	unidentified	-	-	-	-	-	-	100	50	-	-	-	-
		Tipulidae	<i>Helius sp.</i> <i>Pilaria sp.</i>	-	-	-	-	-	-	-	-	50	-	-	-
	Ephemeroptera	unidentified	-	-	-	-	-	-	-	-	-	-	-	-	
		Baetidae	<i>Callibaetis sp.</i> unidentified	-	-	-	-	-	-	-	-	50	-	-	
		Caenidae	<i>Caenis sp.</i>	10,550	550	-	-	100	250	-	-	250	-	650	
		Ephemeridae	<i>Hexagenia limbata</i> <i>Hexagenia sp.</i>	50	150	-	50	-	-	-	-	-	-	-	
		Heptageniidae	unidentified	-	-	-	-	-	-	-	100	-	-	-	
	Hemiptera	Corixidae	<i>Sigara sp.</i> unidentified	-	50	-	-	-	-	-	-	-	-	-	
		Homoptera	unidentified	50	-	-	-	-	-	-	-	-	-	-	
	Hymenoptera	Psyllidae	unidentified	-	-	-	-	-	-	50	-	-	-	-	
		unidentified	-	-	-	-	-	-	-	-	-	-	-	50	
	Lepidoptera	unidentified	-	-	-	-	-	-	-	50	50	-	-	-	
	Megaloptera	Sialidae	<i>Sialis sp.</i>	50	-	-	-	-	-	-	-	-	-	-	
	Odonata - Anisoptera	Aeshnidae	<i>Aeshna sp.</i>	-	-	-	-	-	-	-	-	-	-	-	
	Trichoptera	Lepidostomatidae	<i>Lepidostoma sp.</i>	-	-	-	-	-	-	-	-	-	-	-	
		Leptoceridae	<i>Mystacides sp.</i>	50	-	-	-	-	-	-	-	-	-	-	
			<i>Nectopsyche sp.</i>	-	-	-	-	-	-	-	-	-	-	-	
			<i>Oecetis sp.</i>	200	-	-	-	-	150	-	-	-	-	-	
		Molannidae	<i>Molanna sp.</i>	-	-	-	-	-	-	-	-	-	-	-	
			<i>Molannodes sp.</i>	50	-	-	-	-	-	-	-	-	-	-	
		Phryganeidae	<i>Agrypnia sp.</i>	-	-	-	-	-	-	-	-	-	-	-	
			<i>Banksiola sp.</i>	-	-	-	-	-	50	-	-	-	-	-	
			<i>Fabria sp.</i>	-	-	-	-	-	-	-	-	-	-	-	
	Dipsuedopsidae	<i>Phylocentropus sp.</i>	-	-	-	-	-	-	-	-	-	-	-		
Nematoda	unidentified	-	50	1,400	100	-	100	400	900	-	-	50	-		
Pelecypoda	Veneroida	Pisiidae	<i>Pisidium sp.</i>	200	350	-	100	-	-	-	-	-	100	200	
		<i>Sphaerium sp.</i>	-	200	-	50	-	250	-	-	-	-	-	-	
		unidentified	400	-	50	-	50	-	-	900	-	-	-	50	
<i>Total Density</i>				36,950	12,950	400	650	6,600	5,500	3,000	6,850	4,050	650	3,050	

Notes:
Numbers shown are individuals per square metre.
- = not applicable

Table 06 - Benthic Invertebrate Abundance (n/m²) (con't)

Class	Order	Family	Species	Unnamed Lake 2		Unnamed Lake 3		Unnamed Lake 4		Unnamed Lake 5		Whitehouse Creek		Grass River		
				UL2-F10-BIC1A	UL2-F10-BIC2A	UL3-F10-BIC1A	UL3-F10-BIC2A	UL4-F10-BIC1A	UL4-F10-BIC2A	UL5-F10-BIC1A	UL5-F10-BIC2A	WHC-F10-BIC1A	WHC-F10-BIC2A	GRR-F10-BIC1A	GRR-F10-BIC2A	
Annelida	Hirudinea	Erpobdellidae	<i>Dina sp.</i>	50	-	-	-	-	-	-	-	-	-	-	-	
			<i>Nepheleopsis obscura</i>	-	-	-	-	-	-	-	-	-	-	100	-	
		Glossiphoniidae	<i>Glossiphonia complanata</i>	-	50	-	-	-	-	-	-	-	-	-	-	-
			<i>Helobdella stagnalis</i>	-	-	-	-	-	-	-	-	50	-	-	150	-
	<i>Theromyzon sp.</i>		-	-	-	-	-	-	-	-	-	-	-	-	-	
	Oligochaeta	Lumbriculidae	<i>Lumbriculus sp.</i>	-	-	-	-	-	-	-	-	-	50	-	100	
		Naididae	<i>Dero sp.</i>	-	-	-	-	-	-	-	-	-	-	-	-	50
			<i>Nais sp.</i>	-	-	-	-	-	-	-	-	-	-	-	-	-
			<i>Pristina sp.</i>	-	-	-	-	-	-	-	-	-	-	-	50	200
			<i>Slavina appendiculata</i>	-	-	-	-	-	-	-	50	-	-	-	-	-
<i>Stylaria lacustris</i>			50	-	-	-	-	-	-	-	-	-	-	-	-	
Tubificidae	unidentified	200	100	-	-	-	-	-	-	-	1,050	4,300	300			
Arachnoidea	Araneae	unidentified	-	50	150	-	-	50	-	50	-	-	-	-		
	Orbatida	Hydrozetidae	<i>Hydrozetes sp.</i>	100	-	-	-	-	-	-	-	-	-	-		
	Trombidiformes	Lebertiidae	<i>Oxus sp.</i>	-	-	-	-	-	50	-	-	-	-	-	-	
		Pionidae	<i>Forelia sp.</i>	-	-	-	-	-	-	-	-	-	-	-	-	
			<i>Piona sp.</i>	-	-	-	-	-	-	-	-	-	-	-	-	
		Sperchonidae	<i>Sperchon sp.</i>	-	50	-	-	-	-	-	-	-	-	-	-	
		Unionicolidae	<i>Neumania sp.</i>	-	-	-	-	-	-	50	-	-	-	-	-	
	<i>Unionicola sp.</i>	-	50	-	-	-	-	-	-	-	-	-	-			
Crustacea	Amphipoda	Gammaridae	<i>Gammarus sp.</i>	-	-	50	550	-	-	-	-	150	50	-		
		Hyaletidae	<i>Hyaletella azteca</i>	1,050	150	1,450	1,650	-	-	-	-	100	500	1,000	750	
	Cladocera	unidentified	-	800	300	-	-	-	-	-	-	-	-	300	35,400	
	Copepoda	Calanoida	unidentified	-	-	-	-	-	-	-	50	-	-	-	-	
		Cyclopoida	unidentified	50	50	550	-	-	-	-	-	-	-	1,900	200	
		Harpacticoida	unidentified	-	-	-	-	-	-	-	-	-	-	100	-	
Ostracoda	unidentified	-	300	100	-	-	-	-	-	-	-	150	50	100		
Gastropoda	Basommatophora	Physidae	<i>Physa sp.</i>	-	-	-	-	-	-	-	-	-	-	-		
		Planorbidae	<i>Gyraulus sp.</i>	-	-	-	-	-	300	100	-	-	-	-	-	
	Neotaenioglossa	Hydrobiidae	<i>Amnicola limosa</i>	-	-	-	-	-	-	-	-	-	200	1,300	-	
		unidentified	50	100	-	-	-	-	-	-	-	-	-	-		
	Prosobranchia	Valvatidae	unidentified	-	50	-	-	-	-	-	-	-	-	-	-	
			<i>Valvata sincera</i>	-	-	-	-	-	-	-	-	-	-	-	-	
			<i>Valvata sincera var. ontariensis</i>	-	-	-	50	-	-	50	-	-	-	-	-	
<i>Valvata sp.</i>			50	-	50	-	-	-	-	-	-	-	-	-		
	<i>Valvata tricarinata</i>	-	-	-	-	-	-	150	-	-	-	-	-			
Insecta	Coleoptera	unidentified	-	100	50	-	50	-	-	-	-	-	-	-		
		Chrysomelidae	unidentified	-	-	-	-	-	-	-	-	-	-	-		
		Dytiscidae	<i>Hydroporus sp.</i>	-	-	-	-	-	-	-	-	-	-	50		
		Elmidae	<i>Dubiraphia sp.</i>	-	-	-	-	-	-	-	-	-	150	-		
		Halipidae	<i>Halipus sp.</i>	-	-	-	-	-	-	-	-	-	-	-		
		Staphylinidae	unidentified	-	-	-	50	-	-	-	-	-	-	-		
	Collembola	Isotomidae	<i>Isotoma sp.</i>	100	-	-	-	-	-	-	-	-	-	-		
		<i>Isotomurus tricolor</i>	-	-	-	-	-	-	-	-	-	-	-	200		
		Poduridae	unidentified	50	-	-	-	-	-	-	-	-	-	-		
	Diptera	unidentified	-	-	50	-	-	-	-	50	-	-	-	-	50	
Ceratopogonidae		unidentified	100	-	50	-	-	-	-	-	-	200	200	200		

Notes:
 Numbers shown are individuals per square metre.
 - = not applicable

Table 06 - Benthic Invertebrate Abundance (n/m²) (con't)

Class	Order	Family	Species	Unnamed Lake 2		Unnamed Lake 3		Unnamed Lake 4		Unnamed Lake 5		Whitehouse Creek		Grass River	
				UL2-F10-BIC1A	UL2-F10-BIC2A	UL3-F10-BIC1A	UL3-F10-BIC2A	UL4-F10-BIC1A	UL4-F10-BIC2A	UL5-F10-BIC1A	UL5-F10-BIC2A	WHC-F10-BIC1A	WHC-F10-BIC2A	GRR-F10-BIC1A	GRR-F10-BIC2A
Insecta (cont'd)	Diptera (cont'd)	Chaoboridae	<i>Chaoborus sp.</i>	100	-	-	-	-	-	50	-	-	-	-	-
		Chironomidae	unidentified	7,050	10,650	850	450	50	50	100	-	2,150	750	900	600
		Simuliidae	<i>Simulium sp.</i>	-	-	-	-	-	-	-	-	-	50	-	-
		Tabanidae	unidentified	-	-	-	-	-	-	-	-	-	-	-	-
		Tipulidae	<i>Helius sp.</i>	-	-	-	-	-	-	-	-	-	-	-	-
				<i>Pilaria sp.</i>	-	-	-	-	-	-	-	50	-	-	
	Ephemeroptera			unidentified	-	-	-	-	-	-	-	-	50	-	50
		Baetidae	<i>Callibaetis sp.</i>	-	-	-	-	-	-	-	-	-	-	200	50
				unidentified	-	-	-	-	-	-	-	-	-	100	-
		Caenidae	<i>Caenis sp.</i>	100	150	50	-	-	-	50	-	100	-	-	-
		Ephemeridae	<i>Hexagenia limbata</i>	-	-	-	-	-	-	-	-	-	-	-	-
				<i>Hexagenia sp.</i>	-	-	-	-	-	-	-	-	200	200	-
	Hemiptera	Corixidae	<i>Sigara sp.</i>	-	-	-	-	-	-	-	-	-	-	-	50
			unidentified	-	-	-	-	-	-	-	-	-	-	-	-
	Homoptera		unidentified	-	-	-	-	-	-	-	-	-	-	-	-
		Psyllidae	unidentified	-	-	-	-	-	-	-	-	-	-	-	-
	Hymenoptera	unidentified	-	-	-	-	-	-	-	-	-	-	-	-	
	Lepidoptera	unidentified	-	50	-	-	-	-	-	-	-	-	-	-	
	Megaloptera	Sialidae	<i>Sialis sp.</i>	-	-	-	-	-	-	-	-	-	-	50	
	Odonata - Anisoptera	Aeshnidae	<i>Aeshna sp.</i>	-	-	-	-	-	-	-	-	-	-	-	50
	Trichoptera	Lepidostomatidae	<i>Lepidostoma sp.</i>	-	-	-	-	-	-	-	-	-	-	-	100
		Leptoceridae	<i>Mystacides sp.</i>	-	-	-	-	-	-	-	-	-	-	-	-
			<i>Nectopsyche sp.</i>	50	-	-	-	-	-	-	-	-	-	-	-
			<i>Oecetis sp.</i>	-	50	-	-	-	-	-	-	-	-	-	-
		Molannidae	<i>Molanna sp.</i>	-	-	-	-	-	-	-	-	-	-	-	50
			<i>Molannodes sp.</i>	-	-	-	-	-	-	-	-	-	-	-	-
		Phryganeidae	<i>Agrypnia sp.</i>	50	-	-	-	-	-	-	-	-	-	-	-
<i>Banksiola sp.</i>			-	-	-	-	-	-	-	-	-	-	-	-	
<i>Fabria sp.</i>			-	50	-	-	-	-	-	-	-	-	-	-	
Dipsuedopsidae	<i>Phyloctropus sp.</i>	-	-	-	-	-	-	-	-	-	100	50	-		
Nematoda	unidentified	-	50	50	-	-	-	-	50	-	50	50	600	300	
Pelecypoda	Veneroida	Pisiidae	<i>Pisidium sp.</i>	300	-	300	300	-	50	-	150	-	50	-	
		<i>Sphaerium sp.</i>	-	-	-	-	-	-	-	-	-	50	-	50	
		unidentified	300	50	-	-	-	200	300	-	450	-	200	-	
<i>Total Density</i>				11,000	12,350	3,400	3,050	200	800	900	150	3,050	3,700	11,800	38,950

Notes:
 Numbers shown are individuals per square metre.
 - = not applicable

Table 07 - Benthic Invertebrate Relative Abundance (%)

Class	Order	Reed Lake						Unnamed Creek 2	Unnamed Creek 3	Unnamed Creek 4	Unnamed Lake 1		Unnamed Lake 2		Unnamed Lake 3		Unnamed Lake 4		Unnamed Lake 5		Whitehouse Creek		Grass River	
		RDL-F10-BIC1A	RDL-F10-BIC2A	RDL-F10-BIC3A	RDL-F10-BIC4A	RDL-F10-BIC5A	RDL-F10-BIC6A	UC2-F10-BIC1A	UC3-F10-BIC1A	UC4-F10-BIC1A	UL1-F10-BIC1A	UL1-F10-BIC2A	UL2-F10-BIC1A	UL2-F10-BIC2A	UL3-F10-BIC1A	UL3-F10-BIC2A	UL4-F10-BIC1A	UL4-F10-BIC2A	UL5-F10-BIC1A	UL5-F10-BIC2A	WHC-F10-BIC1A	WHC-F10-BIC2A	GRR-F10-BIC1A	GRR-F10-BIC2A
Annelida	Hirudinea	2.0%	1.5%	-	7.7%	0.8%	-	1.7%	-	-	-	-	0.5%	0.4%	-	-	-	-	-	-	1.6%	-	2.1%	-
	Oligochaeta	12.2%	5.4%	-	-	3.0%	-	28.3%	-	3.7%	-	-	2.3%	0.8%	-	-	-	-	5.9%	-	-	29.7%	36.9%	1.9%
Arachnoidea	Araneae	-	-	-	-	-	-	-	-	-	-	-	0.5%	1.2%	-	-	25.0%	-	5.9%	-	-	-	-	-
	Orbatida	-	-	-	-	-	-	-	-	-	-	-	0.9%	-	-	-	-	-	-	-	-	-	-	-
Crustacea	Trombidiformes	0.3%	0.4%	-	-	-	1.8%	-	-	2.5%	7.7%	-	0.8%	-	-	25.0%	-	-	-	-	-	-	-	-
	Amphipoda	6.8%	1.9%	-	-	55.3%	43.6%	-	10.9%	2.5%	61.5%	41.0%	9.5%	1.2%	44.1%	72.1%	-	-	-	-	8.2%	14.9%	8.5%	1.9%
Crustacea	Cladocera	6.9%	1.5%	-	7.7%	-	-	-	-	11.1%	-	-	7.3%	2.4%	-	-	-	-	-	-	-	-	2.5%	90.9%
	Copepoda	0.5%	23.6%	-	-	0.8%	5.5%	3.3%	5.8%	33.3%	7.7%	1.6%	0.5%	0.4%	16.2%	-	-	-	5.9%	-	-	-	16.9%	0.5%
	Ostracoda	2.2%	2.7%	25.0%	15.4%	9.1%	13.6%	-	30.7%	4.9%	-	4.9%	2.7%	0.8%	-	-	-	-	-	-	-	4.1%	0.4%	0.3%
	Gastropoda	Basommatophora	2.3%	-	12.5%	-	-	0.9%	-	-	-	-	-	-	-	-	-	37.5%	11.8%	-	-	-	-	-
Gastropoda	Neotaenioglossa	0.7%	1.9%	-	-	-	-	-	-	-	-	-	0.5%	0.8%	-	-	-	-	-	-	-	5.4%	11.0%	-
	Prosobranchia	2.2%	1.9%	-	-	-	-	-	0.7%	-	-	-	0.5%	0.4%	1.5%	1.6%	-	18.8%	5.9%	-	-	-	-	-
	Coleoptera	-	-	-	-	-	-	1.7%	-	1.2%	-	-	-	0.8%	1.5%	1.6%	25.0%	-	-	-	-	4.1%	-	0.1%
Gastropoda	Collembola	-	-	25.0%	-	-	-	8.3%	-	-	-	-	1.4%	-	-	-	-	-	-	-	-	-	-	0.5%
	Diptera	32.5%	38.2%	-	38.5%	27.3%	14.5%	23.3%	36.5%	33.3%	-	21.3%	65.9%	86.6%	26.5%	14.8%	25.0%	12.5%	17.6%	-	70.5%	28.4%	9.3%	2.2%
	Ephemeroptera	28.7%	5.4%	-	7.7%	1.5%	4.5%	-	1.5%	7.4%	-	21.3%	0.9%	1.2%	1.5%	-	-	5.9%	-	3.3%	6.8%	4.2%	0.3%	0.3%
Insecta	Hemiptera	-	0.4%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1%
	Homoptera	0.1%	-	-	-	-	-	1.7%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Hymenoptera	-	-	-	-	-	-	-	-	-	-	1.6%	-	-	-	-	-	-	-	-	-	-	-	-
	Lepidoptera	-	-	-	-	-	-	1.7%	0.7%	-	-	-	-	0.4%	-	-	-	-	-	-	-	-	-	-
	Megaloptera	0.1%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.4%	-
	Odonata - Anisoptera	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.1%
Trichoptera	Trichoptera	0.8%	-	-	-	-	3.6%	-	-	-	-	-	0.9%	0.8%	-	-	-	-	-	-	-	2.7%	0.8%	0.3%
	unidentified	0.1%	10.8%	25.0%	-	1.5%	7.3%	30.0%	-	-	7.7%	-	0.5%	0.4%	-	-	-	5.9%	-	1.6%	1.4%	5.1%	0.8%	
Pelecypoda	Veneroida	1.6%	4.2%	12.5%	23.1%	0.8%	4.5%	-	13.1%	-	15.4%	8.2%	5.5%	0.4%	8.8%	9.8%	-	31.3%	35.3%	100%	14.8%	2.7%	1.7%	0.1%

Notes:
 Numbers are shown as a percentage of the total for each station.
 - = not applicable

Table - 08 - Fishing Effort

Waterbody	Fishing Method	Station	Start UTM (14U)		End UTM (14U)		Set		Finish		BKSB	BURB	EMSH	FTMW	JNDT	IWDT	LKTR	LKWF	LNDC	NRPK	PRDC	SLSC	STSH	WALL	WHSK	YLPR	
			Northing	Easting	Northing	Easting	Date	Time	Date	Time																	
Reed Lake	Baited Minnow Trap	RDL-F10-MT1	6053991	394084	-	-	18-Sep-10	10:58	19-Sep-10	10:43	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
		RDL-F10-MT5	6053656	394094	-	-	18-Sep-10	11:17	19-Sep-10	10:53	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		RDL-F10-MT6	6053617	394257	-	-	18-Sep-10	11:21	19-Sep-10	10:56	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		RDL-F10-MT7	6053391	394264	-	-	18-Sep-10	11:32	19-Sep-10	11:03	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Small Mesh Gill Net	RDL-F10-GN1	6054217	394276	6054242	394315	18-Sep-10	10:34	18-Sep-10	15:30	-	-	1	-	-	-	1	-	-	-	-	-	-	1	-	-	60
		RDL-F10-GN3	6054213	394263	6054254	394297	19-Sep-10	13:34	19-Sep-10	15:22	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	34
Large Mesh Gill Net	RDL-F10-GN2	6054519	394675	6054372	394617	18-Sep-10	10:53	18-Sep-10	16:22	-	-	-	-	-	-	-	3	-	11	-	-	-	-	26	6	2	
Unnamed Creek 2	Electrofisher	UC2-F10-EF1	6048155	396636	6048193	396625	15-Sep-10	16:26	15-Sep-10	17:37	8	-	-	-	-	-	-	-	-	-	25	-	-	-	-	-	
Unnamed Creek 3	Electrofisher	UC3-F10-EF1	6047934	391832	6047947	391829	16-Sep-10	13:30	16-Sep-10	14:28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Unnamed Creek 4	Electrofisher	UC4-F10-EF1	6050038	397489	6049886	397595	17-Sep-10	11:37	17-Sep-10	12:26	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Unnamed Lake 1	Baited Minnow Trap	UL1-F10-MT1	6051067	392950	-	-	14-Sep-10	14:25	15-Sep-10	11:30	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		UL1-F10-MT2	6050797	392863	-	-	14-Sep-10	14:33	15-Sep-10	11:30	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		UL1-F10-MT3	6050388	392547	-	-	14-Sep-10	14:38	15-Sep-10	11:30	93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		UL1-F10-MT4	6050658	392353	-	-	14-Sep-10	14:45	15-Sep-10	11:30	37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Large Mesh Gill Net	UL1-F10-GN1	6050663	392372	6050732	392499	14-Sep-10	15:01	15-Sep-10	13:00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Unnamed Lake 2	Baited Minnow Trap	UL2-F10-MT1	6049100	392347	-	-	13-Sep-10	11:28	14-Sep-10	15:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		UL2-F10-MT2	6048925	392460	-	-	13-Sep-10	13:16	14-Sep-10	15:05	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		UL2-F10-MT3	6048967	392606	-	-	13-Sep-10	13:23	14-Sep-10	15:09	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
		UL2-F10-MT4	6049121	392707	-	-	13-Sep-10	13:29	14-Sep-10	15:11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Large Mesh Gill Net	UL2-F10-GN1	6049083	392369	6049019	392491	13-Sep-10	11:25	14-Sep-10	14:18	-	-	-	-	-	-	-	-	7	-	-	-	-	-	3		
Unnamed Lake 3	Baited Minnow Trap	UL3-F10-MT1	6048547	393857	-	-	12-Sep-10	16:18	14-Sep-10	10:39	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		UL3-F10-MT2	6048424	393730	-	-	12-Sep-10	16:25	14-Sep-10	10:34	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		UL3-F10-MT3	6048497	393540	-	-	12-Sep-10	16:34	14-Sep-10	10:24	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		UL3-F10-MT4	6048770	393503	-	-	12-Sep-10	16:42	14-Sep-10	10:28	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	UL3-F10-MT5	6048709	393799	-	-	12-Sep-10	16:46	14-Sep-10	9:30	19	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-		
	Small Mesh Gill Net	UL3-F10-GN1	6048550	393517	6048525	393538	12-Sep-10	15:47	14-Sep-10	10:10	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Large Mesh Gill Net	UL3-F10-GN2	6048639	393630	6048524	393681	12-Sep-10	16:04	14-Sep-10	9:43	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Unnamed Lake 4	Baited Minnow Trap	UL4-F10-MT1	6045284	394659	-	-	10-Sep-10	16:34	12-Sep-10	10:22	15	-	-	101	-	-	-	-	-	-	-	-	-	-	-	-	
		UL4-F10-MT2	6045201	394772	-	-	10-Sep-10	16:36	12-Sep-10	10:27	-	-	-	99	-	-	-	-	-	-	-	-	-	-	-	-	
		UL4-F10-MT3	6045178	394939	-	-	10-Sep-10	16:40	12-Sep-10	10:31	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
		UL4-F10-MT4	6045594	394862	-	-	10-Sep-10	16:57	12-Sep-10	10:37	18	-	-	20	-	-	-	-	-	-	-	-	-	-	-	-	
		UL4-F10-MT5	6045577	394605	-	-	10-Sep-10	17:13	12-Sep-10	10:41	-	-	-	248	-	-	-	-	-	-	-	-	-	-	-	-	
	UL4-F10-MT6	6045496	394446	-	-	10-Sep-10	17:18	12-Sep-10	10:51	34	-	-	37	-	-	-	-	-	-	-	-	-	-	-	-		
Large Mesh Gill Net	UL4-F10-GN1	6045496	395072	6045386	394983	10-Sep-10	16:52	12-Sep-10	9:41	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Small Mesh Gill Net	UL4-F10-GN2	6045492	394765	6045488	394730	10-Sep-10	17:09	12-Sep-10	10:01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Unnamed Lake 5	Baited Minnow Trap	UL5-F10-MT1	6046902	395531	-	-	12-Sep-10	11:45	13-Sep-10	9:46	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		UL5-F10-MT2	6046627	396155	-	-	12-Sep-10	11:56	13-Sep-10	10:02	6	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
		UL5-F10-MT3	6046292	396207	-	-	12-Sep-10	12:04	13-Sep-10	10:08	37	-	-	7	-	-	-	-	-	-	-	-	-	-	-	-	
		UL5-F10-MT4	6045942	395519	-	-	12-Sep-10	12:12	13-Sep-10	10:18	13	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	
	UL5-F10-MT5	6046453	395555	-	-	12-Sep-10	12:19	13-Sep-10	10:26	16	-	-	87	-	-	-	-	-	-	-	-	-	-	-	-		
Small Mesh Gill Net	UL5-F10-GN1	6046572	395987	6046582	396014	12-Sep-10	11:16	13-Sep-10	9:56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

Notes:
 NFC= no fish captured; BRST=Brook Stickleback; FTMN = Fathead Minnow; WALL = Walleye; EMSH = Emerald Shiner; NRPK = Northern Pike; LKTR = Lake Trout; YLPR= Yellow Perch; WHSK = White Sucker; LKWH = Lake Whitefish; BURB = Burbot; SLSC = Slimy Sculpin; LNDC = Longnose Dace; PRDC = Pearl Dace; JHDR = Johnny Darter; STSH = Spottail Shiner; - = not applicable.

Table - 08 - Fishing Effort (con't)

Waterbody	Fishing Method	Station	Start UTM (14U)		End UTM (14U)		Set		Finish		BK	SE	BURE	EMSH	FTMN	JNDT	IWDT	LKTR	LWFL	LNDC	NRPK	PRDC	SLSC	STSH	WALL	WHSK	YLPR	
			Northing	Easting	Northing	Easting	Date	Time	Date	Time																		
Whitehouse Creek	Baited Minnow Trap	WHC-F10-MT1	6051058	390777	-	-	19-Sep-10	9:12	19-Sep-10	16:47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		WHC-F10-MT2	6051081	390741	-	-	19-Sep-10	9:12	19-Sep-10	16:47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Seine Net	WHC-F10-SN1-1	6047756	391482	6047758	391477	16-Sep-10	11:52	16-Sep-10	11:56	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		WHC-F10-SN1-2	6047748	391495	6047759	391477	16-Sep-10	11:59	16-Sep-10	12:02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Electrofisher	WHC-F10-EF1-1	6047753	391485	6047762	391484	16-Sep-10	10:21	16-Sep-10	11:48	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-
		WHC-F10-EF2-1	6053055	391731	6052896	391626	18-Sep-10	12:29	18-Sep-10	13:37	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		WHC-EF01	6051061	390779	6051055	390784	4-Jun-11	12:53	4-Jun-11	12:53	4	-	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-
		WHC-EF02	6051034	390768	6051032	390768	4-Jun-11	13:56	4-Jun-11	13:56	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		WHC-EF03	6050398	390592	6050398	390523	5-Jun-11	11:00	5-Jun-11	11:00	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Hoop Net	WHC-HN01	6049169	392089	-	-	3-Jun-11	12:30	4-Jun-11	9:38	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-
		WHC-HN02	6049189	392078	-	-	3-Jun-11	12:39	4-Jun-11	9:19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		WHC-HN03	6050375	390565	-	-	4-Jun-11	11:35	6-Jun-11	10:12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		WHC-HN04	6050401	390591	-	-	4-Jun-11	11:52	6-Jun-11	10:23	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-
	Grass River	Baited Minnow Trap	GRR-F10-MT2	6053878	393952	-	-	18-Sep-10	11:06	19-Sep-10	10:39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRR-F10-MT3			6053789	393926	-	-	18-Sep-10	11:08	19-Sep-10	10:37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRR-F10-MT4			6053738	393852	-	-	18-Sep-10	11:10	19-Sep-10	10:30	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRR-F10-MT8			6053661	393184	-	-	18-Sep-10	14:51	19-Sep-10	10:14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
GRR-F10-MT9			6053704	393230	-	-	18-Sep-10	14:53	19-Sep-10	10:09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Large Mesh Gill Net		GRR-F10-GN1	6053653	393144	6053704	393289	19-Sep-10	10:23	19-Sep-10	13:42	-	-	-	-	-	-	-	2	-	2	-	-	-	-	11	-	-	
Seine Net		GRR-F10-SN1	6052864	390339	6052874	390326	17-Sep-10	9:45	17-Sep-10	9:50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		GRR-F10-SN2	6052869	390324	6052874	390310	17-Sep-10	9:50	17-Sep-10	9:55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Electrofisher		GRR-F10-EF1	6052876	390360	6052865	390170	16-Sep-10	15:43	16-Sep-10	17:40	-	8	-	-	-	-	-	-	-	2	-	-	28	-	-	-	-	

Notes:
 NFC= no fish captured; BRST=Brook Stickleback; FTMN = Fathead Minnow; WALL = Walleye; EMSH = Emerald Shiner; NRPK = Northern Pike; LKTR = Lake Trout; YLPR= Yellow Perch; WHSK = White Sucker; LKWH = Lake Whitefish; BURB = Burbot; SLSC = Slimy Sculpin; LNDC = Longnose Dace; PRDC = Pearl Dace; JHDR = Johnny Darter; STSH = Spottail Shiner; - = not applicable.

Table - 08 - Fishing Effort (con't)

Waterbody	Fishing Method	Station	Habitat
Reed Lake	Baited Minnow Trap	RDL-F10-MT1	Emergent and submergent vegetation, over-hanging vegetation, silt/clay/organic bottom with cobble/boulder/bedrock.
		RDL-F10-MT5	Emergent and submergent vegetation, over-hanging vegetation, silt/clay/organic bottom with cobble/boulder/bedrock.
		RDL-F10-MT6	Emergent and submergent vegetation, over-hanging vegetation, silt/clay/organic bottom with cobble/boulder/bedrock.
		RDL-F10-MT7	Emergent and submergent vegetation, over-hanging vegetation, silt/clay/organic bottom with cobble/boulder/bedrock.
	Small Mesh Gill Net	RDL-F10-GN1	Cobble/boulder/bedrock.
		RDL-F10-GN3	Cobble/boulder/bedrock.
		RDL-F10-GN2	Boulder/bedrock.
Unnamed Creek 2	Electrofisher	UC2-F10-EF1	Organic bottom; some cobble/boulder; emergent and submergent vegetation; beaver ponds.
Unnamed Creek 3	Electrofisher	UC3-F10-EF1	Soft and organic bottom with submergent vegetation.
Unnamed Creek 4	Electrofisher	UC4-F10-EF1	Soft and organic bottom with submergent and emergent vegetation.
Unnamed Lake 1	Baited Minnow Trap	UL1-F10-MT1	Boulder/cobble.
		UL1-F10-MT2	Boulder/cobble.
		UL1-F10-MT3	Silt/organic; darker substrate.
		UL1-F10-MT4	Near island in boulder/cobble bed.
		UL1-F10-MT5	Organic substrate.
	Large Mesh Gill Net	UL1-F10-GN1	Near island in boulder/cobble bed extending through dark silt/organic substrate into lighter organic substrate.
Unnamed Lake 2	Baited Minnow Trap	UL2-F10-MT1	Clay/silt/organic bottom with a lot of aquatic vegetation; grassy shore.
		UL2-F10-MT2	Clay/silt/organic bottom with a lot of aquatic vegetation; grassy shore.
		UL2-F10-MT3	Clay/silt/organic bottom with a lot of aquatic vegetation; grassy shore.
		UL2-F10-MT4	Clay/silt/organic bottom with a lot of aquatic vegetation; grassy shore.
		UL2-F10-MT5	Clay/silt/organic bottom with a lot of aquatic vegetation; grassy shore.
	Large Mesh Gill Net	UL2-F10-GN1	Clay/silt/organic bottom with a lot of aquatic vegetation; grassy shore.
Unnamed Lake 3	Baited Minnow Trap	UL3-F10-MT1	Rocky area by tree.
		UL3-F10-MT2	Shore vegetation; peat soft organic sediment; overhanging vegetation.
		UL3-F10-MT3	Woody shore; peat and organic sediment.
		UL3-F10-MT4	Sandy shore; soft organic sediment; grassy shore.
		UL3-F10-MT5	Sandy shore; soft organic sediment; grassy shore.
	Small Mesh Gill Net	UL3-F10-GN1	Sandy shore; soft organic sediment; grassy shore.
	Large Mesh Gill Net	UL3-F10-GN2	Sandy shore; soft organic sediment; grassy shore.
Unnamed Lake 4	Baited Minnow Trap	UL4-F10-MT1	Over-hanging vegetation; small and large woody debris; organic/cobble bottom.
		UL4-F10-MT2	Over-hanging vegetation; submergent vegetation; small and large woody debris; organic/cobble bottom.
		UL4-F10-MT3	Over-hanging vegetation; submergent and emergent vegetation; cobble/boulder bottom.
		UL4-F10-MT4	Over-hanging vegetation; large woody debris; cobble/boulder bottom.
		UL4-F10-MT5	Over-hanging vegetation; small woody debris; organic/cobble bottom.
		UL4-F10-MT6	Deep small bay near shore; large and small woody debris; organic/cobble/boulder bottom.
	Large Mesh Gill Net	UL4-F10-GN1	Deep section near shore; organic/cobble bottom.
Small Mesh Gill Net	UL4-F10-GN2	Off island; organic/cobble/boulder bottom.	
Unnamed Lake 5	Baited Minnow Trap	UL5-F10-MT1	Organic soft bottom, some cobble; emergent and submergent vegetation, fen shore.
		UL5-F10-MT2	Organic soft bottom, some cobble; emergent and submergent vegetation, fen shore.
		UL5-F10-MT3	Organic soft bottom, some cobble; emergent and submergent vegetation, fen shore.
		UL5-F10-MT4	Organic soft bottom, some cobble; emergent and submergent vegetation, fen shore.
		UL5-F10-MT5	Organic soft bottom, some cobble; emergent and submergent vegetation, fen shore.
	Small Mesh Gill Net	UL5-F10-GN1	Near island, ending in rocky area.

Notes:

NFC= no fish captured; BRST=Brook Stickleback; FTMN = Fathead Minnow; WALL = Walleye; EMSH = Emerald Shiner; NRPK = Northern Pike; LKTR = Lake Trout; YLPR= Yellow Perch; WHSK = White Sucker; LKWH = Lake Whitefish; BURB = Burbot; SLSC = Slimy Sculpin; LNDC = Longnose Dace; PRDC = Pearl Dace; JHDR = Johnny Darter; STSH = Spottail Shiner; - = not applicable.

Table - 08 - Fishing Effort (con't)

Waterbody	Fishing Method	Station	Habitat
Whitehouse Creek	Baited Minnow Trap	WHC-F10-MT1	Beside culvert off of highway; overhanging vegetation; fast current; appeared >1 m deep; emergent vegetation.
		WHC-F10-MT2	Beside culvert off of highway; overhanging vegetation; fast current; appeared >1 m deep; emergent vegetation.
	Seine Net	WHC-F10-SN1-1	Large and small woody debris; organic silt bottom in channel; pools and riffles; cobble/boulder; beaver dams.
		WHC-F10-SN1-2	Large and small woody debris; organic silt bottom in channel; pools and riffles; cobble/boulder; beaver dams.
	Electrofisher	WHC-F10-EF1-1	Large and small woody debris; organic silt bottom in channel; pools and riffles; cobble/boulder; beaver dams.
		WHC-F10-EF2-1	Organic/clay; fen/bog with mature spruce forest.
		WHC-EF01	Riffle/run morphology; grass/shrub riparian; cover is boulder, undercut bank, pools, overhanging vegetation; substrate is boulder/cobble.
		WHC-EF02	Flat morphology; grass/shrub riparian; cover is overhanging vegetation, emergent vegetation; substrate is silt/sand/organics.
		WHC-EF03	Run morphology; shrub riparian; cover is undercut bank, pools, overhanging vegetation, emergent vegetation, submerged vegetation, small woody debris; substrate is silt/sand/gravel/boulder/organics.
	Hoop Net	WHC-HN01	Flat morphology; wetland riparian; cover is undercut bank, overhanging vegetation and submerged vegetation; substrate is silt/organics.
		WHC-HN02	Flat morphology; wetland riparian; cover is undercut bank, overhanging vegetation and submerged vegetation; substrate is silt/organics.
		WHC-HN03	Run morphology; grass riparian; cover is boulder, pools, overhanging vegetation, submerged vegetation and small woody debris; substrate is silt/cobble/organics.
WHC-HN04		Run morphology; grass/shrub riparian; cover is pools, overhanging vegetation, emergent vegetation and submerged vegetation; substrate is silt/sand/gravel.	
Grass River	Baited Minnow Trap	GRR-F10-MT2	Emergent and submergent vegetation, over-hanging vegetation, silt/clay/organic bottom with cobble/boulder/bedrock.
		GRR-F10-MT3	Emergent and submergent vegetation, over-hanging vegetation, silt/clay/organic bottom with cobble/boulder/bedrock.
		GRR-F10-MT4	Emergent and submergent vegetation, over-hanging vegetation, silt/clay/organic bottom with cobble/boulder/bedrock.
		GRR-F10-MT8	Emergent and submergent vegetation, over-hanging vegetation, silt/clay/organic bottom with cobble/boulder/bedrock.
		GRR-F10-MT9	Emergent and submergent vegetation, over-hanging vegetation, silt/clay/organic bottom with cobble/boulder/bedrock.
	Large Mesh Gill Net	GRR-F10-GN1	Mineral soils; organic content and grasses; boreal forest on shore.
	Seine Net	GRR-F10-SN1	Clay/silt bottom with cobble/boulder and vegetation; boreal forest on shore; beaver dams.
		GRR-F10-SN2	Clay/silt bottom with cobble/boulder and vegetation; boreal forest on shore; beaver dams.
	Electrofisher	GRR-F10-EF1	Clay/silt bottom with cobble/boulder and vegetation; boreal forest on shore; beaver dams.

Notes:

NFC= no fish captured; BRST=Brook Stickleback; FTMN = Fathead Minnow; WALL = Walleye; EMSH = Emerald Shiner; NRPK = Northern Pike; LKTR = Lake Trout; YLPR= Yellow Perch; WHSK = White Sucker; LKWH = Lake Whitefish; BURB = Burbot; SLSC = Slimy Sculpin; LNDC = Longnose Dace; PRDC = Pearl Dace; JHDR = Johnny Darter; STSH = Spottail Shiner; - = not applicable.

Table - 09 - Catch-Per-Unit-Effort and Species Diversity

Waterbody	Fishing Method	Total Effort ^(a)	Diversity (%)	Overall		BKSB		LOTA		EMSH		FHMW		JNDT		IWDT		LKTR		LKWF		LNDC		NRPK		PRDC		SLSC		STSH		WALL		WHSK		YLPR	
				n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE	n	CPUE
Reed Lake	Baited Minnow Trap	94.4	63%	2	0.02	1	0.01	-	-	-	-	-	-	1	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Small Mesh Gill Net	16.0		98	6.11	-	-	-	-	1	0.06	-	-	-	-	-	1	0.06	1	0.06	-	-	-	-	-	-	-	-	1	0.06	-	-	-	-	94	5.86	
	Large Mesh Gill Net	45.0		48	1.07	-	-	-	-	-	-	-	-	-	-	-	-	-	3	0.07	-	-	11	0.24	-	-	-	-	-	26	0.58	6	0.13	2	0.04	-	-
Unnamed Creek 2	Electrofisher	1480	13%	33	0.02	8	0.01	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	0.02	-	-	-	-	-	-	-	-	-	-	-	-
Unnamed Creek 3	Electrofisher	1425	0%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Unnamed Creek 4	Electrofisher	2634	6%	3	0.001	3	0.001	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Unnamed Lake 1	Baited Minnow Trap	104.0	6%	141	1.36	141	1.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Large Mesh Gill Net	11.2		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Unnamed Lake 2	Baited Minnow Trap	130.4	25%	11	0.08	6	0.05	-	-	-	-	5	0.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Large Mesh Gill Net	9.2		10	1.09	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	0.76	-	-	-	-	-	-	-	-	3	0.33	-	-	-	
Unnamed Lake 3	Baited Minnow Trap	208.8	6%	76	0.37	76	0.36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Small Mesh Gill Net	1.3		1	0.78	1	0.78	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Large Mesh Gill Net	5.9		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Unnamed Lake 4	Baited Minnow Trap	250.1	13%	573	2.29	67	0.27	-	-	-	-	506	2.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Large Mesh Gill Net	6.0		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Small Mesh Gill Net	1.3		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Unnamed Lake 5	Baited Minnow Trap	110.4	13%	173	1.57	77	0.70	-	-	-	-	96	0.87	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Small Mesh Gill Net	2.4		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Whitehouse Creek	Seine Net	198.1	31%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Baited Minnow Trap	15.2		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Electrofisher	647		19	0.03	12	0.02	1	0.002	-	-	-	-	-	7	0.011	-	-	-	-	-	-	-	-	1	0.002	-	-	-	-	-	-	-	-	-	-	
	Hoop Net	135		3	0.02	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	0.015	1	0.007	-	-	-	-	-	-	-	-	-	-	-	-	
Grass River	Baited Minnow Trap	109.0	44%	4	0.04	4	0.04	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Large Mesh Gill Net	74.6		15	0.20	-	-	-	-	-	-	-	-	-	-	-	2	0.03	-	-	2	0.03	-	-	-	-	-	-	11	0.15	-	-	-	-	-		
	Seine Net	236.2		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Electrofisher	1469		38	0.03	-	-	8	0.005	-	-	-	-	-	-	-	-	-	-	2	0.001	-	-	-	-	28	0.02	-	-	-	-	-	-	-	-		
Total				1248	-	396	-	9	-	1	-	607	-	1	-	7	-	1	-	6	-	2	-	22	-	27	-	28	-	1	-	37	-	9	-	96	

Notes:

(a) = Effort for Minnow Traps is in hours. Effort for Gill Nets is in metre squared per hour. Effort for Hoop Net is in hours. Effort for Seine Net is in metre squared. Effort for Electrofishing is in seconds.

% = percent; n = number of individuals; CPUE = Catch-Per-Unit-Effort; BRST=Brook Stickleback; FTMN = Fathead Minnow; WALL = Walleye; EMSH = Emerald Shiner; NRPK = Northern Pike; LKTR = Lake Trout; YLPR= Yellow Perch; WHSC = White Sucker; LKWH = Lake Whitefish; BURB = Burbot; SLSC = Slimy Sculpin; LNDC =

Table - 10 - Detailed Fish Health Information of Small-Bodied Fish

Waterbody	Station	Date	Species	Number	Biomarker	Length Type	Length (mm)	Weight (g)	Condition (g/mm ³)	Fate	Comments
Reed Lake	RDL-F10-GN1	18-Sep-10	STSH	001	-	FL	67	4.6	1.53	S (I)	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	EMSH	001	-	FL	90	9.2	1.26	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	LKTR	001	-	FL	90	5.4	0.74	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	001	RDL-F10-YLPR001	FL	96	9.5	1.07	S (A)	Fin erosion (net damage)
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	002	RDL-F10-YLPR002	FL	82	6.3	1.14	S (A)	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	003	RDL-F10-YLPR003	FL	75	5.1	1.21	S (A)	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	004	RDL-F10-YLPR004	FL	75	5.2	1.23	S (A)	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	005	-	FL	54	2.7	1.71	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	006	-	FL	57	3.2	1.73	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	007	-	FL	58	2.4	1.23	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	008	-	FL	56	2.3	1.31	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	009	-	FL	56	2.5	1.42	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	010	-	FL	57	2.7	1.46	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	011	-	FL	55	2.5	1.50	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	012	-	FL	50	2.2	1.76	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	013	-	FL	57	2.4	1.30	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	014	-	FL	57	2.5	1.35	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	015	-	FL	53	1.9	1.28	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	016	-	FL	57	1.9	1.03	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	017	-	FL	57	1.8	0.97	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	018	-	FL	57	1.8	0.97	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	019	-	FL	55	1.9	1.14	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	020	-	FL	55	1.7	1.02	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	021	-	FL	55	1.7	1.02	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	022	-	FL	54	1.7	1.08	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	023	-	FL	55	1.6	0.96	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	024	-	FL	54	1.7	1.08	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	025	-	FL	59	2.1	1.02	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	026	-	FL	55	1.7	1.02	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	027	-	FL	58	1.5	0.77	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	028	-	FL	57	1.3	0.70	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	029	-	FL	57	1.5	0.81	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	030	-	FL	58	1.6	0.82	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	031	-	FL	56	1.5	0.85	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	032	-	FL	56	1.5	0.85	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	033	-	FL	55	1.7	1.02	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	034	-	FL	56	1.5	0.85	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	035	-	FL	55	1.9	1.12	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	036	-	FL	55	1.5	0.90	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	037	-	FL	58	1.6	0.82	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	038	-	FL	55	1.6	0.96	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	039	-	FL	57	1.6	0.86	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	040	-	FL	60	1.7	0.79	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	041	-	FL	55	1.5	0.90	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	042	-	FL	55	1.5	0.90	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	043	-	FL	53	1.5	1.01	R	Good health

Table - 10 - Detailed Fish Health Information of Small-Bodied Fish

Waterbody	Station	Date	Species	Number	Biomarker	Length Type	Length (mm)	Weight (g)	Condition (g/mm ³)	Fate	Comments
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	044	-	FL	55	1.0	0.60	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	045	-	FL	56	1.3	0.74	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	046	-	FL	60	1.6	0.74	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	047	-	FL	58	1.6	0.82	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	048	-	FL	58	1.5	0.77	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	049	-	FL	58	1.5	0.77	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	050	-	FL	58	1.6	0.82	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	051	RDL-F10-YLPR051	FL	108	14.4	1.14	S (A)	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	052	-	FL	56	1.4	0.80	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	053	-	FL	56	1.4	0.80	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	054	-	FL	57	1.5	0.81	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	055	-	FL	56	1.5	0.85	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	056	-	FL	61	1.7	0.75	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	057	-	FL	57	1.4	0.76	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	058	-	FL	53	1.3	0.87	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	059	-	FL	58	1.5	0.77	R	Good health
Reed Lake	RDL-F10-GN1	18-Sep-10	YLPR	060	-	FL	56	1.3	0.74	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	LKWF	001	-	FL	266	-	-	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	LKWF	002	-	FL	388	-	-	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	LKWF	003	-	FL	419	-	-	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	NRPK	001	-	FL	800	2721.5	0.53	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	NRPK	002	-	FL	559	340.2	0.19	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	NRPK	003	-	FL	400	-	-	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	NRPK	003	-	FL	572	340.2	0.18	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	NRPK	004	-	FL	546	907.2	0.56	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	NRPK	005	-	FL	559	1474.2	0.84	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	NRPK	006	-	FL	559	1360.8	0.78	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	NRPK	007	-	FL	533	793.8	0.52	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	NRPK	008	-	FL	635	1360.8	0.53	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	NRPK	009	-	FL	724	2268.0	0.60	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	NRPK	009	-	FL	933	6350.3	0.78	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WALL	001	-	FL	610	2041.2	0.90	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WALL	002	-	FL	533	1360.8	0.90	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WALL	003	-	FL	584	1814.4	0.91	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WALL	004	-	FL	521	907.2	0.64	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WALL	005	-	FL	546	1133.9	0.70	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WALL	006	-	FL	356	340.2	0.75	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WALL	007	-	FL	432	453.6	0.56	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WALL	008	-	FL	483	907.2	0.81	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WALL	009	-	FL	444	907.2	1.04	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WALL	010	-	FL	584	2041.2	1.02	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WALL	011	-	FL	610	2267.9	1.00	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WALL	012	-	FL	483	907.2	0.81	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WALL	013	-	FL	483	907.2	0.81	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WALL	014	-	FL	571	1814.4	0.97	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WALL	015	-	FL	559	1814.4	1.04	R	Good health

Table - 10 - Detailed Fish Health Information of Small-Bodied Fish

Waterbody	Station	Date	Species	Number	Biomarker	Length Type	Length (mm)	Weight (g)	Condition (g/mm ³)	Fate	Comments
Reed Lake	RDL-F10-GN2	18-Sep-10	WALL	016	-	FL	546	1360.8	0.84	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WALL	017	-	FL	470	907.2	0.87	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WALL	018	-	FL	457	907.2	0.95	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WALL	019	-	FL	508	1360.8	1.04	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WALL	020	-	FL	432	793.8	0.98	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WALL	021	-	FL	495	1133.9	0.93	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WALL	022	-	FL	457	680.4	0.71	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WALL	023	-	FL	419	680.4	0.92	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WALL	024	-	FL	559	1927.7	1.10	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WALL	025	-	FL	521	1360.8	0.96	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WALL	026	-	FL	584	2041.2	1.02	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WHSK	001	-	FL	394	-	-	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WHSK	002	-	FL	381	-	-	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WHSK	003	-	FL	444	-	-	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WHSK	004	-	FL	381	-	-	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WHSK	005	-	FL	343	-	-	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	WHSK	006	-	FL	419	-	-	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	YLPR	061	-	FL	170	-	-	R	Good health
Reed Lake	RDL-F10-GN2	18-Sep-10	YLPR	062	-	FL	141	-	-	R	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	LKWF	001	-	FL	60	1.7	0.79	S (I)	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	063	RDL-F10-YLPR063	FL	88	7.3	1.07	S (A)	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	064	RDL-F10-YLPR064	FL	93	8.4	1.04	S (A)	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	065	RDL-F10-YLPR065	FL	58	2.0	1.03	S (A)	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	066	RDL-F10-YLPR066	FL	60	1.9	0.88	S (A)	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	067	RDL-F10-YLPR067	FL	59	2.1	1.02	S (A)	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	068	RDL-F10-YLPR068	FL	59	1.7	0.83	S (A)	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	069	RDL-F10-YLPR069	FL	58	1.5	0.77	S (A)	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	070	-	FL	57	1.5	0.81	R	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	071	-	FL	59	1.9	0.93	R	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	072	-	FL	58	1.7	0.87	R	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	073	-	FL	59	1.8	0.88	R	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	074	-	FL	56	1.5	0.85	R	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	075	-	FL	55	1.5	0.90	R	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	076	-	FL	55	1.4	0.84	R	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	077	-	FL	57	1.7	0.92	R	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	078	-	FL	58	1.8	0.92	R	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	079	-	FL	56	1.6	0.91	R	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	080	-	FL	59	1.9	0.93	R	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	081	-	FL	56	1.8	1.02	R	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	082	-	FL	55	1.2	0.72	R	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	083	-	FL	60	1.7	0.79	R	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	084	-	FL	54	1.3	0.83	R	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	085	-	FL	55	1.3	0.78	R	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	086	-	FL	60	1.7	0.79	R	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	087	-	FL	58	1.6	0.82	R	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	088	-	FL	52	1.3	0.92	R	Good health

Table - 10 - Detailed Fish Health Information of Small-Bodied Fish

Waterbody	Station	Date	Species	Number	Biomarker	Length Type	Length (mm)	Weight (g)	Condition (g/mm ³)	Fate	Comments
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	089	-	FL	57	1.1	0.59	R	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	090	-	FL	55	1.3	0.78	R	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	091	-	FL	59	1.7	0.83	R	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	092	-	FL	55	1.5	0.90	R	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	093	-	FL	57	1.6	0.86	R	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	094	-	FL	59	1.7	0.83	R	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	095	-	FL	59	1.8	0.88	R	Good health
Reed Lake	RDL-F10-GN3	19-Sep-10	YLPR	096	-	FL	52	1.3	0.92	R	Good health
Reed Lake	RDL-F10-MT1	19-Sep-10	JNDT	001	-	TL	59	1.4	0.68	R	Good health
Reed Lake	RDL-F10-MT6	19-Sep-10	BKSB	005	-	TL	55	0.9	0.54	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	BKSB	001	-	TL	65	2.3	0.84	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	BKSB	002	-	TL	49	0.8	0.68	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	BKSB	003	-	TL	46	0.7	0.72	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	BKSB	004	-	TL	62	2.1	0.88	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	BKSB	005	-	TL	31	0.2	0.67	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	BKSB	006	-	TL	33	0.5	1.39	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	BKSB	007	-	TL	55	1.4	0.84	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	BKSB	008	-	TL	39	0.22	0.37	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	PRDC	001	-	TL	36	0.4	0.86	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	PRDC	002	-	TL	39	0.4	0.67	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	PRDC	003	-	TL	31	0.2	0.67	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	PRDC	004	-	TL	33	0.2	0.56	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	PRDC	005	-	TL	39	0.6	1.01	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	PRDC	006	-	TL	39	0.5	0.84	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	PRDC	007	-	TL	32	0.3	0.92	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	PRDC	008	-	TL	40	0.6	0.94	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	PRDC	009	-	TL	36	0.4	0.86	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	PRDC	010	-	TL	42	0.5	0.67	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	PRDC	011	-	TL	77	4.8	1.05	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	PRDC	012	-	TL	79	4.8	0.97	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	PRDC	013	-	TL	70	3.0	0.87	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	PRDC	014	-	TL	42	0.6	0.81	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	PRDC	015	-	TL	102	11.1	1.05	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	PRDC	016	-	TL	92	8.4	1.08	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	PRDC	017	-	TL	37	0.5	0.99	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	PRDC	018	-	TL	37	0.5	0.99	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	PRDC	019	-	TL	40	0.6	0.94	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	PRDC	020	-	TL	89	8.2	1.16	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	PRDC	021	-	TL	81	8.1	1.52	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	PRDC	022	-	TL	91	8.1	1.07	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	PRDC	023	-	TL	92	7.4	0.95	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	PRDC	024	-	TL	65	2.1	0.76	R	Good health
Unnamed Creek 2	UC2-F10-EF1	15-Sep-10	PRDC	025	-	TL	76	4.9	1.12	R	Good health
Unnamed Creek 4	UC4-F10-EF1	17-Sep-10	PRDC	001	-	TL	50	0.7	0.56	R	Good health
Unnamed Creek 4	UC4-F10-EF1	17-Sep-10	PRDC	002	-	TL	45	0.7	0.77	R	Good health
Unnamed Creek 4	UC4-F10-EF1	17-Sep-10	PRDC	003	-	TL	48	0.7	0.63	R	Good health

Table - 10 - Detailed Fish Health Information of Small-Bodied Fish

Waterbody	Station	Date	Species	Number	Biomarker	Length Type	Length (mm)	Weight (g)	Condition (g/mm ³)	Fate	Comments
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	001	-	TL	65	1.8	0.66	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	002	-	TL	54	0.8	0.51	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	003	UL1-F10-BRST003	TL	73	2.3	0.59	S (A)	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	004	UL1-F10-BRST004	TL	68	2.6	0.83	S (A)	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	005	-	TL	49	0.8	0.68	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	006	UL1-F10-BRST006	TL	68	2.4	0.76	S (A)	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	007	UL1-F10-BRST007	TL	70	2.5	0.73	S (A)	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	008	-	TL	68	2.1	0.67	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	009	-	TL	65	1.9	0.69	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	010	-	TL	54	0.9	0.57	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	011	UL1-F10-BRST011	TL	72	3.3	0.88	S (A)	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	012	-	TL	61	1.7	0.75	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	013	-	TL	55	1.4	0.84	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	014	-	TL	52	1.1	0.78	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	015	-	TL	57	1.4	0.76	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	016	UL1-F10-BRST016	TL	74	3.4	0.84	S (A)	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	017	UL1-F10-BRST017	TL	75	2.4	0.57	S (A)	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	018	UL1-F10-BRST018	TL	71	2.0	0.56	S (A)	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	019	UL1-F10-BRST019	TL	70	2.6	0.76	S (A)	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	020	-	TL	57	1.1	0.59	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	021	-	TL	63	1.3	0.52	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	022	-	TL	59	1.6	0.78	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	023	-	TL	65	1.6	0.58	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	024	-	TL	57	1.0	0.54	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	025	-	TL	58	1.2	0.62	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	026	-	TL	64	1.9	0.72	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	027	-	TL	63	-	-	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	028	-	TL	58	1.0	0.51	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	029	-	TL	64	1.5	0.57	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	030	UL1-F10-BRST030	TL	74	2.4	0.59	S (A)	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	031	-	TL	71	3.0	0.84	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	032	-	TL	63	1.5	0.60	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	033	-	TL	65	2.0	0.73	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	034	-	TL	69	2.9	0.88	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	035	-	TL	61	2.0	0.88	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	036	-	TL	66	2.1	0.73	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	037	-	TL	56	2.1	1.20	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	038	-	TL	68	1.8	0.57	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	039	-	TL	61	1.5	0.66	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	040	-	TL	62	2.1	0.88	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	041	-	TL	66	1.8	0.63	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	042	-	TL	86	3.6	0.57	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	043	-	TL	64	1.4	0.53	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	044	-	TL	72	2.7	0.72	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	045	-	TL	75	2.8	0.66	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	046	-	TL	59	1.6	0.78	R	Good health

Table - 10 - Detailed Fish Health Information of Small-Bodied Fish

Waterbody	Station	Date	Species	Number	Biomarker	Length Type	Length (mm)	Weight (g)	Condition (g/mm ³)	Fate	Comments
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	047	-	TL	62	1.1	0.46	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	048	-	TL	75	2.4	0.57	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	049	-	TL	57	1.0	0.54	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	050	-	TL	68	1.5	0.48	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	051	-	TL	67	1.1	0.37	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	052	-	TL	66	1.9	0.66	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	053	-	TL	67	1.5	0.50	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	054	-	TL	77	3.1	0.68	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	055	-	TL	67	1.8	0.60	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	056	-	TL	65	1.9	0.69	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	057	-	TL	55	1.0	0.60	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	058	-	TL	66	1.4	0.49	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	059	-	TL	75	2.3	0.55	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	060	-	TL	61	1.5	0.66	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	061	-	TL	72	1.8	0.48	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	062	-	TL	62	1.2	0.50	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	063	-	TL	65	1.5	0.55	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	064	-	TL	70	1.9	0.55	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	065	-	TL	65	1.7	0.62	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	066	-	TL	61	1.0	0.44	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	067	-	TL	60	1.2	0.56	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	068	-	TL	61	1.1	0.48	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	069	-	TL	64	1.5	0.57	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	070	-	TL	59	1.0	0.49	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	071	-	TL	61	1.8	0.79	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	072	-	TL	57	0.9	0.49	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	073	-	TL	68	1.7	0.54	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	074	-	TL	69	1.7	0.52	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	075	-	TL	66	1.3	0.45	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	076	-	TL	65	1.5	0.55	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	077	-	TL	61	-	-	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	078	-	TL	52	1.0	0.71	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	079	-	TL	68	1.9	0.60	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	080	-	TL	62	1.4	0.59	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	081	-	TL	52	0.9	0.64	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	082	-	TL	47	0.7	0.67	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	083	-	TL	56	0.9	0.51	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	084	-	TL	51	1.0	0.75	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	085	-	TL	70	1.7	0.50	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	086	-	TL	55	0.9	0.54	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	087	-	TL	70	1.6	0.47	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	088	-	TL	55	1.0	0.60	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	089	-	TL	57	0.9	0.49	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	090	-	TL	59	1.3	0.63	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	091	-	TL	65	1.6	0.58	R	Good health
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	092	-	TL	66	1.9	0.66	R	Good health

Table - 10 - Detailed Fish Health Information of Small-Bodied Fish

Waterbody	Station	Date	Species	Number	Biomarker	Length Type	Length (mm)	Weight (g)	Condition (g/mm ³)	Fate	Comments
Unnamed Lake 1	UL1-F10-MT3	15-Sep-10	BKSB	093	-	TL	61	1.3	0.57	R	Good health
Unnamed Lake 1	UL1-F10-MT2	15-Sep-10	BKSB	094	-	TL	64	2.5	0.95	R	Parasite (photo in Appendix C)
Unnamed Lake 1	UL1-F10-MT2	15-Sep-10	BKSB	095	-	TL	71	2.5	0.70	R	Good health
Unnamed Lake 1	UL1-F10-MT2	15-Sep-10	BKSB	096	-	TL	71	2.4	0.67	R	Good health
Unnamed Lake 1	UL1-F10-MT2	15-Sep-10	BKSB	097	-	TL	71	2.2	0.61	R	Good health
Unnamed Lake 1	UL1-F10-MT2	15-Sep-10	BKSB	098	-	TL	73	3.0	0.77	R	Good health
Unnamed Lake 1	UL1-F10-MT2	15-Sep-10	BKSB	099	-	TL	70	2.5	0.73	R	Good health
Unnamed Lake 1	UL1-F10-MT2	15-Sep-10	BKSB	100	-	TL	72	2.3	0.62	R	Good health
Unnamed Lake 2	UL2-F10-GN1	14-Sep-10	NRPK	001	-	FL	252	124.7	0.78	R	Good health
Unnamed Lake 2	UL2-F10-GN1	14-Sep-10	NRPK	002	-	FL	270	158.4	0.80	R	Good health
Unnamed Lake 2	UL2-F10-GN1	14-Sep-10	NRPK	003	UL2-F10-NRPK003	FL	222	85.1 (1.4)	0.78	S (A); M	Adult male; FR&CL
Unnamed Lake 2	UL2-F10-GN1	14-Sep-10	NRPK	004	UL2-F10-NRPK004	FL	253	123.1 (2.4)	0.76	S (A); M	Adult male; FR&CL; Good health
Unnamed Lake 2	UL2-F10-GN1	14-Sep-10	NRPK	005	UL2-F10-NRPK005	FL	250	114.4 (1.4)	0.73	S (A); M	Adult male; FR&CL; fin erosion (net damage)
Unnamed Lake 2	UL2-F10-GN1	14-Sep-10	NRPK	006	UL2-F10-NRPK006	FL	219	86.8 (1.1)	0.83	S (A); M	Adult male; FR&CL; fin erosion (net damage)
Unnamed Lake 2	UL2-F10-GN1	14-Sep-10	NRPK	007	UL2-F10-NRPK007	FL	194	57.1 (0.9)	0.78	S (A); M	Adult male; FR&CL; Good health
Unnamed Lake 2	UL2-F10-GN1	14-Sep-10	WHSK	001	-	FL	243	186.8	1.30	R	Good health
Unnamed Lake 2	UL2-F10-GN1	14-Sep-10	WHSK	002	UL2-F10-WHSC002	FL	405	1003.8 (8.5)	1.51	S (A); M	Adult female; FR&SC; fin erosion (net damage)
Unnamed Lake 2	UL2-F10-GN1	14-Sep-10	WHSK	003	UL2-F10-WHSC003	FL	274	283.6 (2.2)	1.38	S (A); M	Adult female; FR&SC; fin erosion (net damage)
Unnamed Lake 2	UL2-F10-MT2	14-Sep-10	BKSB	005	-	TL	45	0.7	0.77	R	Black spot
Unnamed Lake 2	UL2-F10-MT3	14-Sep-10	FTMW	005	-	FL	55	1.6	0.96	R	Good health
Unnamed Lake 2	UL2-F10-MT5	14-Sep-10	BKSB	001	-	TL	62	1.8	0.76	R	Black spot
Unnamed Lake 2	UL2-F10-MT5	14-Sep-10	BKSB	002	-	TL	51	1.0	0.75	R	Black spot
Unnamed Lake 2	UL2-F10-MT5	14-Sep-10	BKSB	003	-	TL	61	1.5	0.66	R	Black spot
Unnamed Lake 2	UL2-F10-MT5	14-Sep-10	BKSB	004	-	TL	62	1.8	0.76	R	Black spot
Unnamed Lake 2	UL2-F10-MT5	14-Sep-10	FTMW	001	-	FL	47	0.9	0.87	R	Good health
Unnamed Lake 2	UL2-F10-MT5	14-Sep-10	FTMW	002	-	FL	40	0.8	1.25	R	Good health
Unnamed Lake 2	UL2-F10-MT5	14-Sep-10	FTMW	003	-	FL	46	1.0	1.03	R	Good health
Unnamed Lake 2	UL2-F10-MT5	14-Sep-10	FTMW	004	-	FL	43	0.7	0.88	R	Good health
Unnamed Lake 3	UL3-F10-GN1	14-Sep-10	BKSB	001	UL3-F10-BRST001	TL	67	2.1	0.70	S (A)	Good health
Unnamed Lake 3	UL3-F10-MT1	14-Sep-10	BKSB	021	-	TL	60	1.6	0.74	R	Good health
Unnamed Lake 3	UL3-F10-MT1	14-Sep-10	BKSB	022	-	TL	61	1.6	0.70	R	Good health
Unnamed Lake 3	UL3-F10-MT1	14-Sep-10	BKSB	023	UL3-F10-BRST023	TL	65	1.7	0.62	S (A)	Good health
Unnamed Lake 3	UL3-F10-MT1	14-Sep-10	BKSB	024	-	TL	61	1.9	0.84	R	Good health
Unnamed Lake 3	UL3-F10-MT1	14-Sep-10	BKSB	025	UL3-F10-BRST025	TL	63	1.7	0.68	S (A)	Good health
Unnamed Lake 3	UL3-F10-MT1	14-Sep-10	BKSB	026	UL3-F10-BRST026	TL	71	2.4	0.67	S (A)	Good health
Unnamed Lake 3	UL3-F10-MT1	14-Sep-10	BKSB	027	-	TL	64	1.4	0.53	R	Good health
Unnamed Lake 3	UL3-F10-MT1	14-Sep-10	BKSB	028	-	TL	55	1.1	0.66	R	Good health
Unnamed Lake 3	UL3-F10-MT1	14-Sep-10	BKSB	029	-	TL	64	1.6	0.61	R	Good health
Unnamed Lake 3	UL3-F10-MT1	14-Sep-10	BKSB	030	-	TL	58	1.1	0.56	R	Good health

Table - 10 - Detailed Fish Health Information of Small-Bodied Fish

Waterbody	Station	Date	Species	Number	Biomarker	Length Type	Length (mm)	Weight (g)	Condition (g/mm ³)	Fate	Comments
Unnamed Lake 3	UL3-F10-MT1	14-Sep-10	BKSB	031	-	TL	55	1.1	0.66	R	Good health
Unnamed Lake 3	UL3-F10-MT1	14-Sep-10	BKSB	032	-	TL	55	1.0	0.60	R	Good health
Unnamed Lake 3	UL3-F10-MT1	14-Sep-10	BKSB	033	-	TL	58	1.2	0.62	R	Good health
Unnamed Lake 3	UL3-F10-MT1	14-Sep-10	BKSB	034	-	TL	58	1.2	0.62	R	Good health
Unnamed Lake 3	UL3-F10-MT1	14-Sep-10	BKSB	035	-	TL	53	1.2	0.81	R	Good health
Unnamed Lake 3	UL3-F10-MT1	14-Sep-10	BKSB	036	-	TL	54	1.2	0.76	R	Good health
Unnamed Lake 3	UL3-F10-MT1	14-Sep-10	BKSB	037	-	TL	58	1.1	0.56	R	Good health
Unnamed Lake 3	UL3-F10-MT1	14-Sep-10	BKSB	038	-	TL	57	1.0	0.54	R	Good health
Unnamed Lake 3	UL3-F10-MT1	14-Sep-10	BKSB	039	-	TL	70	2.2	0.64	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	041	-	TL	61	1.1	0.48	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	042	-	TL	63	1.0	0.40	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	043	-	TL	65	1.6	0.58	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	044	-	TL	60	1.1	0.53	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	045	-	TL	66	1.8	0.63	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	046	-	TL	66	1.8	0.63	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	047	-	TL	65	1.6	0.58	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	048	-	TL	65	1.5	0.55	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	049	-	TL	65	1.8	0.66	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	050	-	TL	63	1.5	0.60	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	051	-	TL	65	1.8	0.66	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	052	-	TL	65	1.8	0.66	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	053	-	TL	69	1.7	0.52	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	054	-	TL	75	2.8	0.66	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	055	-	TL	59	0.6	0.29	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	056	-	TL	66	1.6	0.56	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	057	-	TL	64	1.5	0.57	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	058	-	TL	65	1.4	0.51	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	059	-	TL	62	1.2	0.50	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	060	-	TL	71	2.3	0.64	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	061	-	TL	54	1.0	0.64	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	062	-	TL	70	2.3	0.67	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	063	-	TL	63	1.7	0.68	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	064	-	TL	61	1.3	0.57	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	065	-	TL	68	1.8	0.57	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	066	-	TL	61	2.1	0.93	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	067	-	TL	69	1.7	0.52	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	068	-	TL	65	1.4	0.51	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	069	-	TL	65	1.6	0.58	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	070	-	TL	68	1.8	0.57	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	071	-	TL	60	1.5	0.69	R	Good health
Unnamed Lake 3	UL3-F10-MT2	14-Sep-10	BKSB	072	-	TL	55	1.0	0.60	R	Good health
Unnamed Lake 3	UL3-F10-MT3	14-Sep-10	BKSB	040	-	TL	64	1.9	0.72	R	Good health
Unnamed Lake 3	UL3-F10-MT5	14-Sep-10	BKSB	002	UL3-F10-BRST002	TL	69	2.1	0.64	S (A)	Good health
Unnamed Lake 3	UL3-F10-MT5	14-Sep-10	BKSB	003	UL3-F10-BRST003	TL	64	2.4	0.92	S (A)	Good health
Unnamed Lake 3	UL3-F10-MT5	14-Sep-10	BKSB	004	-	TL	55	1.2	0.72	R	Good health
Unnamed Lake 3	UL3-F10-MT5	14-Sep-10	BKSB	005	-	TL	54	1.1	0.70	R	Good health

Table - 10 - Detailed Fish Health Information of Small-Bodied Fish

Waterbody	Station	Date	Species	Number	Biomarker	Length Type	Length (mm)	Weight (g)	Condition (g/mm ³)	Fate	Comments
Unnamed Lake 3	UL3-F10-MT5	14-Sep-10	BKSB	006	-	TL	59	1.4	0.68	R	Good health
Unnamed Lake 3	UL3-F10-MT5	14-Sep-10	BKSB	007	-	TL	61	1.4	0.62	R	Good health
Unnamed Lake 3	UL3-F10-MT5	14-Sep-10	BKSB	008	-	TL	54	1.0	0.64	R	Good health
Unnamed Lake 3	UL3-F10-MT5	14-Sep-10	BKSB	009	-	TL	56	1.1	0.63	R	Good health
Unnamed Lake 3	UL3-F10-MT5	14-Sep-10	BKSB	010	-	TL	60	1.2	0.56	R	Good health
Unnamed Lake 3	UL3-F10-MT5	14-Sep-10	BKSB	011	-	TL	55	1.2	0.72	R	Good health
Unnamed Lake 3	UL3-F10-MT5	14-Sep-10	BKSB	012	UL3-F10-BRST012	TL	65	2.0	0.73	S (A)	Good health
Unnamed Lake 3	UL3-F10-MT5	14-Sep-10	BKSB	013	-	TL	54	1.0	0.64	R	Good health
Unnamed Lake 3	UL3-F10-MT5	14-Sep-10	BKSB	014	-	TL	59	1.3	0.63	R	Good health
Unnamed Lake 3	UL3-F10-MT5	14-Sep-10	BKSB	015	UL3-F10-BRST015	TL	62	1.8	0.76	S (A)	Good health
Unnamed Lake 3	UL3-F10-MT5	14-Sep-10	BKSB	016	-	TL	57	1.2	0.65	R	Good health
Unnamed Lake 3	UL3-F10-MT5	14-Sep-10	BKSB	017	UL3-F10-BRST017	TL	69	1.8	0.55	S (A)	Good health
Unnamed Lake 3	UL3-F10-MT5	14-Sep-10	BKSB	018	UL3-F10-BRST018	TL	69	1.7	0.52	S (A)	Good health
Unnamed Lake 3	UL3-F10-MT5	14-Sep-10	BKSB	019	-	TL	56	1.2	0.68	R	Good health
Unnamed Lake 3	UL3-F10-MT5	14-Sep-10	BKSB	020	-	TL	57	1.3	0.70	R	Good health
Unnamed Lake 4	UL4-F10-MT1	12-Sep-10	BKSB	019	-	TL	65	1.8	0.66	R	Good health
Unnamed Lake 4	UL4-F10-MT1	12-Sep-10	BKSB	020	-	TL	53	0.7	0.47	R	Good health
Unnamed Lake 4	UL4-F10-MT1	12-Sep-10	BKSB	021	-	TL	45	0.4	0.44	R	Good health
Unnamed Lake 4	UL4-F10-MT1	12-Sep-10	BKSB	022	-	TL	62	2.2	0.92	R	Good health
Unnamed Lake 4	UL4-F10-MT1	12-Sep-10	BKSB	023	-	TL	51	0.9	0.68	R	Good health
Unnamed Lake 4	UL4-F10-MT1	12-Sep-10	BKSB	024	-	TL	60	1.8	0.83	R	Good health
Unnamed Lake 4	UL4-F10-MT1	12-Sep-10	BKSB	025	-	TL	57	1.2	0.65	R	Good health
Unnamed Lake 4	UL4-F10-MT1	12-Sep-10	BKSB	026	-	TL	50	0.9	0.72	R	Good health
Unnamed Lake 4	UL4-F10-MT1	12-Sep-10	BKSB	027	-	TL	47	0.8	0.77	R	Good health
Unnamed Lake 4	UL4-F10-MT1	12-Sep-10	BKSB	028	-	TL	50	0.9	0.72	R	Good health
Unnamed Lake 4	UL4-F10-MT1	12-Sep-10	BKSB	029	-	TL	47	0.7	0.67	R	Good health
Unnamed Lake 4	UL4-F10-MT1	12-Sep-10	BKSB	030	-	TL	50	1.1	0.88	R	Good health
Unnamed Lake 4	UL4-F10-MT1	12-Sep-10	BKSB	031	-	TL	50	0.7	0.56	R	Good health
Unnamed Lake 4	UL4-F10-MT1	12-Sep-10	BKSB	032	-	TL	45	0.5	0.55	R	Good health
Unnamed Lake 4	UL4-F10-MT1	12-Sep-10	BKSB	033	-	TL	46	0.6	0.62	R	Good health
Unnamed Lake 4	UL4-F10-MT3	12-Sep-10	FTMW	001	UL4-F10-FTMN001	FL	65	2.6	0.95	S (A)	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	BKSB	001	-	TL	49	0.1	0.08	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	BKSB	002	-	TL	71	1.2	0.34	M	-
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	BKSB	003	-	TL	55	1.1	0.66	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	BKSB	004	-	TL	50	1.0	0.80	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	BKSB	005	-	TL	52	0.6	0.43	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	BKSB	006	-	TL	53	0.8	0.54	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	BKSB	007	-	TL	50	0.7	0.56	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	BKSB	008	-	TL	54	2.1	1.33	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	BKSB	009	-	TL	49	1.0	0.85	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	BKSB	010	-	TL	49	0.9	0.76	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	BKSB	011	-	TL	54	1.0	0.64	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	BKSB	012	-	TL	56	1.1	0.63	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	BKSB	013	-	TL	47	0.4	0.39	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	BKSB	014	-	TL	47	0.9	0.87	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	BKSB	015	-	TL	54	1.3	0.83	R	Good health

Table - 10 - Detailed Fish Health Information of Small-Bodied Fish

Waterbody	Station	Date	Species	Number	Biomarker	Length Type	Length (mm)	Weight (g)	Condition (g/mm ³)	Fate	Comments
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	BKSB	016	-	TL	50	0.8	0.64	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	BKSB	017	-	TL	50	0.8	0.64	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	BKSB	018	-	TL	49	0.7	0.59	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	FTMW	002	-	FL	54	1.2	0.76	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	FTMW	003	UL4-F10-FTMN003	FL	71	3.8	1.06	S (A)	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	FTMW	004	UL4-F10-FTMN004	FL	62	3.1	1.30	S (A)	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	FTMW	005	-	FL	57	2.3	1.24	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	FTMW	006	-	FL	66	3.2	1.11	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	FTMW	007	-	FL	57	1.9	1.03	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	FTMW	008	-	FL	61	3.1	1.37	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	FTMW	009	-	FL	59	2.4	1.17	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	FTMW	010	-	FL	119	7.1	0.42	R	Swollen anus
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	FTMW	011	-	FL	60	2.8	1.30	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	FTMW	012	-	FL	50	1.3	1.04	R	Fin erosion
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	FTMW	013	-	FL	56	1.7	0.97	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	FTMW	014	-	FL	54	1.4	0.89	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	FTMW	015	-	FL	57	2.1	1.13	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	FTMW	016	-	FL	60	2.9	1.34	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	FTMW	017	-	FL	60	2.2	1.02	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	FTMW	018	-	FL	59	2.5	1.22	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	FTMW	019	-	FL	53	1.5	1.01	R	Good health
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	FTMW	020	-	FL	61	2.5	1.10	R	Black spot
Unnamed Lake 4	UL4-F10-MT4	12-Sep-10	FTMW	021	-	FL	56	1.8	1.02	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	022	-	FL	66	3.0	1.04	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	023	UL4-F10-FTMN023	FL	78	6.0	1.26	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	024	-	FL	56	2.0	1.14	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	025	-	FL	52	1.4	1.00	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	026	-	FL	60	2.7	1.25	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	027	-	FL	57	2.0	1.08	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	028	-	FL	55	1.9	1.14	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	029	-	FL	54	1.5	0.95	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	030	-	FL	60	2.0	0.93	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	031	UL4-F10-FTMN031	FL	79	5.7	1.16	S (A)	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	032	-	FL	59	1.8	0.88	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	033	-	FL	69	3.7	1.13	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	034	-	FL	53	1.5	1.01	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	035	-	FL	59	1.9	0.93	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	036	-	FL	61	2.6	1.15	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	037	-	FL	65	3.0	1.09	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	038	-	FL	56	1.7	0.97	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	039	-	FL	53	1.4	0.94	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	040	-	FL	57	2.0	1.08	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	041	-	FL	71	4.0	1.12	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	042	-	FL	73	4.4	1.13	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	043	-	FL	59	2.3	1.12	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	044	-	FL	73	4.3	1.11	R	Black spot

Table - 10 - Detailed Fish Health Information of Small-Bodied Fish

Waterbody	Station	Date	Species	Number	Biomarker	Length Type	Length (mm)	Weight (g)	Condition (g/mm ³)	Fate	Comments
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	045	-	FL	63	-	-	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	046	-	FL	62	2.6	1.09	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	047	-	FL	63	2.8	1.12	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	048	-	FL	69	3.8	1.16	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	049	-	FL	57	2.1	1.13	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	050	UL4-F10-FTMN050	FL	75	5.3	1.26	S (A)	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	051	-	FL	55	1.8	1.08	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	052	-	FL	62	2.5	1.05	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	053	-	FL	59	2.5	1.22	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	054	-	FL	54	1.4	0.89	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	055	-	FL	59	2.5	1.22	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	056	-	FL	59	2.2	1.07	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	057	-	FL	56	1.7	0.97	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	058	-	FL	56	1.7	0.97	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	059	-	FL	56	1.6	0.91	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	060	-	FL	57	1.5	0.81	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	061	-	FL	60	1.9	0.88	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	062	-	FL	54	1.4	0.89	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	063	-	FL	63	2.5	1.00	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	064	-	FL	57	2.0	1.08	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	065	-	FL	65	2.9	1.06	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	066	-	FL	63	2.8	1.12	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	067	-	FL	65	2.9	1.06	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	068	-	FL	56	1.6	0.91	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	069	-	FL	58	2.2	1.13	R	Parasite
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	070	-	FL	60	2.5	1.16	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	071	-	FL	61	2.0	0.88	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	072	-	FL	60	2.3	1.06	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	073	-	FL	58	2.3	1.18	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	074	-	FL	60	2.3	1.06	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	075	-	FL	59	2.1	1.02	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	076	-	FL	59	2.1	1.02	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	077	-	FL	58	1.9	0.97	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	078	-	FL	59	2.0	0.97	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	079	-	FL	57	2.0	1.08	R	Parasite
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	080	-	FL	54	1.6	1.02	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	081	-	FL	71	4.6	1.29	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	082	-	FL	66	3.6	1.25	R	Black spot
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	083	-	FL	58	2.0	1.03	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	084	-	FL	71	4.4	1.23	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	085	-	FL	66	2.4	0.83	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	086	-	FL	60	2.3	1.06	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	087	-	FL	57	1.7	0.92	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	088	UL4-F10-FTMN088	FL	75	4.9	1.16	S (A)	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	089	-	FL	57	2.2	1.19	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	090	-	FL	57	1.9	1.03	R	Good health

Table - 10 - Detailed Fish Health Information of Small-Bodied Fish

Waterbody	Station	Date	Species	Number	Biomarker	Length Type	Length (mm)	Weight (g)	Condition (g/mm ³)	Fate	Comments
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	091	-	FL	71	3.3	0.92	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	092	-	FL	67	3.5	1.16	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	093	-	FL	64	3.1	1.18	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	094	-	FL	56	1.8	1.02	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	095	-	FL	60	2.2	1.02	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	096	-	FL	73	4.2	1.08	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	097	-	FL	61	2.1	0.93	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	098	-	FL	56	2.0	1.14	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	099	-	FL	65	2.6	0.95	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	100	-	FL	59	2.2	1.07	R	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	101	UL4-F10-FTMN101	FL	78	6.2	1.31	S (A)	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	102	UL4-F10-FTMN102	FL	79	5.8	1.18	S (A)	Good health
Unnamed Lake 4	UL4-F10-MT5	12-Sep-10	FTMW	103	UL4-F10-FTMN103	FL	78	4.9	1.03	S (A)	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	034	-	TL	52	1.1	0.78	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	035	-	TL	49	0.7	0.59	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	036	-	TL	50	0.8	0.64	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	037	-	TL	53	0.9	0.60	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	038	-	TL	50	0.7	0.56	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	039	-	TL	47	0.5	0.48	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	040	-	TL	45	0.9	0.99	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	041	-	TL	54	1.0	0.64	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	042	-	TL	47	0.8	0.77	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	043	-	TL	50	1.1	0.88	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	044	-	TL	61	1.5	0.66	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	045	-	TL	64	1.0	0.38	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	046	-	TL	49	0.8	0.68	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	047	-	TL	59	1.2	0.58	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	048	-	TL	59	1.0	0.49	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	049	-	TL	45	0.5	0.55	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	050	-	TL	47	0.9	0.87	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	051	-	TL	50	0.8	0.64	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	052	-	TL	55	0.9	0.54	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	053	-	TL	67	2.2	0.73	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	054	-	TL	55	1.2	0.72	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	055	-	TL	45	0.7	0.77	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	056	-	TL	51	1.1	0.83	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	057	-	TL	62	1.3	0.55	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	058	-	TL	49	0.9	0.76	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	059	-	TL	57	1.7	0.92	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	060	-	TL	46	1.6	1.64	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	061	-	TL	50	0.9	0.72	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	062	-	TL	46	0.8	0.82	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	063	-	TL	48	0.8	0.72	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	064	-	TL	45	0.6	0.66	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	065	-	TL	68	0.9	0.29	R	Good health
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	066	-	TL	48	0.8	0.72	R	Good health

Table - 10 - Detailed Fish Health Information of Small-Bodied Fish

Waterbody	Station	Date	Species	Number	Biomarker	Length Type	Length (mm)	Weight (g)	Condition (g/mm ³)	Fate	Comments
Unnamed Lake 4	UL4-F10-MT6	12-Sep-10	BKSB	067	-	TL	51	1.1	0.83	R	Good health
Unnamed Lake 5	UL5-F10-MT1	13-Sep-10	BKSB	013	-	TL	53	1.2	0.81	R	Good health
Unnamed Lake 5	UL5-F10-MT1	13-Sep-10	BKSB	014	-	TL	54	1.0	0.64	R	Good health
Unnamed Lake 5	UL5-F10-MT1	13-Sep-10	BKSB	015	-	TL	53	1.0	0.67	R	Good health
Unnamed Lake 5	UL5-F10-MT1	13-Sep-10	BKSB	016	-	TL	52	0.9	0.64	R	Good health
Unnamed Lake 5	UL5-F10-MT1	13-Sep-10	BKSB	017	-	TL	56	1.1	0.63	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	018	-	TL	54	0.9	0.57	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	019	-	TL	52	0.6	0.43	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	020	-	TL	57	1.2	0.65	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	021	-	TL	54	1.1	0.70	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	022	-	TL	53	0.6	0.40	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	023	-	TL	59	0.9	0.44	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	024	-	TL	53	0.7	0.47	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	025	-	TL	55	1.1	0.66	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	026	-	TL	53	0.9	0.60	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	027	-	TL	56	0.9	0.51	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	028	-	TL	54	0.6	0.38	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	029	-	TL	52	1.0	0.71	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	030	-	TL	52	0.7	0.50	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	032	-	TL	52	0.8	0.57	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	033	-	TL	55	1.2	0.72	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	034	-	TL	51	0.8	0.60	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	035	-	TL	46	0.7	0.72	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	036	-	TL	57	1.1	0.59	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	037	-	TL	50	0.6	0.48	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	038	-	TL	48	0.9	0.81	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	039	-	TL	57	1.3	0.70	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	040	-	TL	57	1.4	0.76	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	041	-	TL	51	1.1	0.83	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	042	-	TL	55	1.2	0.72	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	043	-	TL	46	0.9	0.92	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	044	-	TL	48	1.0	0.90	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	045	-	TL	50	0.9	0.72	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	046	-	TL	55	1.1	0.66	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	047	-	TL	57	1.2	0.65	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	048	-	TL	55	1.0	0.60	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	049	-	TL	57	1.2	0.65	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	050	-	TL	49	0.7	0.59	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	051	-	TL	52	0.5	0.36	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	052	-	TL	52	0.8	0.57	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	053	-	TL	49	0.8	0.68	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	054	-	TL	58	1.3	0.67	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	BKSB	055	-	TL	59	1.3	0.63	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	FTMW	002	UL5-F10-FTMN002	FL	69	3.5	1.07	S (A)	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	FTMW	003	UL5-F10-FTMN003	FL	66	3.3	1.15	S (A)	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	FTMW	004	-	FL	45	0.9	0.99	R	Good health

Table - 10 - Detailed Fish Health Information of Small-Bodied Fish

Waterbody	Station	Date	Species	Number	Biomarker	Length Type	Length (mm)	Weight (g)	Condition (g/mm ³)	Fate	Comments
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	FTMW	005	-	FL	52	1.2	0.85	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	FTMW	006	-	FL	56	1.9	1.08	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	FTMW	007	-	FL	64	3.0	1.14	R	Good health
Unnamed Lake 5	UL5-F10-MT3	13-Sep-10	FTMW	008	-	FL	62	2.8	1.17	R	Good health
Unnamed Lake 5	UL5-F10-MT4	13-Sep-10	BKSB	001	-	TL	60	1.5	0.69	M	-
Unnamed Lake 5	UL5-F10-MT4	13-Sep-10	BKSB	002	-	TL	55	1.1	0.66	R	Good health
Unnamed Lake 5	UL5-F10-MT4	13-Sep-10	BKSB	003	-	TL	47	0.9	0.87	R	Good health
Unnamed Lake 5	UL5-F10-MT4	13-Sep-10	BKSB	004	-	TL	54	1.8	1.14	R	Good health
Unnamed Lake 5	UL5-F10-MT4	13-Sep-10	BKSB	005	-	TL	53	0.9	0.60	R	Good health
Unnamed Lake 5	UL5-F10-MT4	13-Sep-10	BKSB	006	-	TL	57	1.0	0.54	R	Good health
Unnamed Lake 5	UL5-F10-MT4	13-Sep-10	BKSB	007	-	TL	48	0.6	0.54	R	Good health
Unnamed Lake 5	UL5-F10-MT4	13-Sep-10	BKSB	008	-	TL	57	1.2	0.65	R	Good health
Unnamed Lake 5	UL5-F10-MT4	13-Sep-10	BKSB	009	-	TL	48	0.7	0.63	R	Good health
Unnamed Lake 5	UL5-F10-MT4	13-Sep-10	BKSB	010	-	TL	54	1.1	0.70	R	Good health
Unnamed Lake 5	UL5-F10-MT4	13-Sep-10	BKSB	011	-	TL	46	0.6	0.62	R	Good health
Unnamed Lake 5	UL5-F10-MT4	13-Sep-10	BKSB	012	-	TL	50	1.0	0.80	R	Good health
Unnamed Lake 5	UL5-F10-MT4	13-Sep-10	FTMW	001	UL5-F10-FTMN001	FL	73	4.2	1.08	S (A)	Good health
Unnamed Lake 5	UL5-F10-MT4	13-Sep-10	BKSB	072	-	FL	54	1.2	0.76	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	BKSB	056	-	TL	52	1.0	0.71	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	BKSB	057	-	TL	49	0.8	0.68	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	BKSB	058	-	TL	54	1.0	0.64	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	BKSB	059	-	TL	42	0.7	0.94	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	BKSB	060	-	TL	47	0.8	0.77	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	BKSB	061	-	TL	62	1.4	0.59	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	BKSB	062	-	TL	55	1.1	0.66	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	BKSB	063	-	TL	56	1.1	0.63	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	BKSB	064	-	TL	46	0.7	0.72	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	BKSB	065	-	TL	52	0.9	0.64	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	BKSB	066	-	TL	54	1.0	0.64	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	BKSB	067	-	TL	52	0.7	0.50	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	BKSB	068	-	TL	60	1.4	0.65	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	BKSB	069	-	TL	50	1.2	0.96	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	BKSB	070	-	TL	51	1.1	0.83	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	BKSB	071	-	TL	55	1.1	0.66	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	009	-	FL	54	1.7	1.08	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	010	-	FL	53	1.5	1.01	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	011	-	FL	53	1.6	1.07	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	012	-	FL	48	1.2	1.09	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	013	-	FL	52	0.5	0.36	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	014	-	FL	53	1.7	1.14	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	015	UL5-F10-FTMN015	FL	78	5.5	1.16	S (A)	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	016	-	FL	50	1.2	0.96	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	017	-	FL	50	1.3	1.04	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	018	-	FL	56	1.3	0.74	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	019	-	FL	55	1.7	1.02	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	020	-	FL	50	1.2	0.96	R	Good health

Table - 10 - Detailed Fish Health Information of Small-Bodied Fish

Waterbody	Station	Date	Species	Number	Biomarker	Length Type	Length (mm)	Weight (g)	Condition (g/mm ³)	Fate	Comments
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	021	-	FL	53	1.6	1.07	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	022	-	FL	51	1.3	0.98	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	023	-	FL	55	1.5	0.90	R	Caudal fin erosion
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	024	-	FL	53	1.5	1.01	R	Caudal fin erosion
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	025	-	FL	52	1.7	1.21	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	026	-	FL	51	1.6	1.21	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	027	-	FL	47	1.1	1.06	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	028	-	FL	58	2.3	1.18	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	029	UL5-F10-FTMN029	FL	66	5.2	1.81	S (A)	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	030	-	FL	51	1.6	1.21	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	031	-	FL	56	1.7	0.97	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	032	-	FL	45	0.9	0.99	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	033	-	FL	54	1.6	1.02	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	034	-	FL	48	1.0	0.90	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	035	-	FL	47	1.0	0.96	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	036	-	FL	53	1.5	1.01	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	037	-	FL	51	1.2	0.90	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	038	-	FL	46	1.0	1.03	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	039	-	FL	50	1.2	0.96	R	Caudal fin erosion
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	040	-	FL	51	1.5	1.13	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	041	-	FL	51	1.5	1.13	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	042	UL5-F10-FTMN042	FL	74	4.9	1.21	S (A)	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	043	UL5-F10-FTMN043	FL	66	3.0	1.04	S (A)	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	044	-	FL	54	1.4	0.89	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	045	-	FL	52	1.4	1.00	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	046	-	FL	47	1.1	1.06	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	047	-	FL	63	2.6	1.04	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	047	-	FL	50	1.1	0.88	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	049	-	FL	49	1.0	0.85	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	050	-	FL	54	1.6	1.02	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	051	-	FL	52	1.4	1.00	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	052	-	FL	46	0.9	0.92	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	053	-	FL	52	1.4	1.00	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	054	UL5-F10-FTMN054	FL	68	3.3	1.05	S (A)	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	055	-	FL	49	1.0	0.85	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	056	-	FL	54	1.5	0.95	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	057	-	FL	47	0.9	0.87	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	058	-	FL	47	0.9	0.87	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	059	-	FL	52	1.4	1.00	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	060	-	FL	51	1.1	0.83	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	061	UL5-F10-FTMN061	FL	69	3.3	1.00	S (A)	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	062	-	FL	46	1.0	1.03	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	063	-	FL	50	1.2	0.96	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	064	-	FL	48	1.2	1.09	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	065	-	FL	54	1.5	0.95	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	066	-	FL	55	1.7	1.02	R	Good health

Table - 10 - Detailed Fish Health Information of Small-Bodied Fish

Waterbody	Station	Date	Species	Number	Biomarker	Length Type	Length (mm)	Weight (g)	Condition (g/mm ³)	Fate	Comments
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	067	-	FL	48	1.1	0.99	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	068	-	FL	52	1.3	0.92	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	069	-	FL	66	2.9	1.01	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	070	-	FL	69	4.1	1.25	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	071	UL5-F10-FTMN071	FL	82	5.9	1.07	S (A)	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	072	-	FL	44	0.8	0.94	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	073	-	FL	60	2.4	1.11	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	074	-	FL	52	1.4	1.00	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	075	-	FL	57	2.0	1.08	R	Fin Erosion
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	076	-	FL	51	1.3	0.98	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	077	-	FL	63	2.8	1.12	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	078	-	FL	52	1.5	1.07	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	079	-	FL	72	4.1	1.10	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	080	-	FL	68	3.3	1.05	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	081	-	FL	50	1.1	0.88	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	082	-	FL	46	1.0	1.03	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	083	-	FL	53	1.6	1.07	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	084	-	FL	46	0.9	0.92	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	085	-	FL	52	1.7	1.21	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	086	-	FL	49	1.3	1.10	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	087	-	FL	73	4.4	1.12	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	088	-	FL	47	1.1	1.06	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	089	-	FL	53	1.6	1.07	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	090	-	FL	47	1.0	0.96	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	091	-	FL	52	1.5	1.07	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	092	-	FL	67	3.4	1.13	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	093	-	FL	46	0.9	0.92	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	094	-	FL	65	3.0	1.09	R	Good health
Unnamed Lake 5	UL5-F10-MT5	13-Sep-10	FTMW	095	-	FL	65	2.7	0.98	R	Good health
Whitehouse Creek	WHC-F10-EF1-1	16-Sep-10	PRDC	001	-	FL	135	26.8	1.09	S (I)	-
Whitehouse Creek	WHC-F10-EF1-1	16-Sep-10	PRDC	002	-	FL	84	5.9	1.00	S (I)	-
Whitehouse Creek	WHC-F10-EF1-1	16-Sep-10	PRDC	003	-	FL	48	0.9	0.81	S (I)	-
Whitehouse Creek	WHC-F10-EF2-1	18-Sep-10	LOTA	001	-	TL	145	16.9	0.55	R	-
Whitehouse Creek	WHC-HN01	4-Jun-11	NRPK	001	-	FL	171	41.2	0.82	R	
Whitehouse Creek	WHC-HN01	4-Jun-11	NRPK	002	-	FL	167	35.4	0.76	R	
Whitehouse Creek	WHC-HN04	6-Jun-11	PRDC	001	-	FL	154	34.5	0.94	R	
Whitehouse Creek	WHC-EF01	4-Jun-11	BKSB	001	-	TL	50	1.2	0.96	R	Heavy black spot.
Whitehouse Creek	WHC-EF01	4-Jun-11	IWDT	001	-	FL	42	0.6	0.81	R	
Whitehouse Creek	WHC-EF01	4-Jun-11	BKSB	002	-	TL	42	0.9	1.21	R	Distended belly.
Whitehouse Creek	WHC-EF01	4-Jun-11	BKSB	003	-	TL	44	0.7	0.82	R	Heavy black spot.
Whitehouse Creek	WHC-EF01	4-Jun-11	BKSB	004	-	TL	42	0.8	1.08	R	Distended belly.
Whitehouse Creek	WHC-EF01	4-Jun-11	IWDT	002	-	FL	47	0.9	0.87	R	
Whitehouse Creek	WHC-EF01	4-Jun-11	IWDT	003	-	FL	32	0.1	0.31	R	Weighed less than scale limit.
Whitehouse Creek	WHC-EF01	4-Jun-11	IWDT	004	-	FL	46	0.7	0.72	R	
Whitehouse Creek	WHC-EF01	4-Jun-11	IWDT	005	-	FL	46	0.5	0.51	R	

Table - 10 - Detailed Fish Health Information of Small-Bodied Fish

Waterbody	Station	Date	Species	Number	Biomarker	Length Type	Length (mm)	Weight (g)	Condition (g/mm ³)	Fate	Comments
Whitehouse Creek	WHC-EF01	4-Jun-11	IWDT	006	-	FL	42	0.4	0.54	R	
Whitehouse Creek	WHC-EF01	4-Jun-11	IWDT	007	-	FL	35	0.4	0.93	R	
Whitehouse Creek	WHC-EF02	4-Jun-11	BKSB	005	-	TL	45	0.8	0.88	R	Heavy black spot.
Whitehouse Creek	WHC-EF03	5-Jun-11	BKSB	006	-	TL	32	0.3	0.92	R	
Whitehouse Creek	WHC-EF03	5-Jun-11	BKSB	007	-	TL	41	0.6	0.87	R	
Whitehouse Creek	WHC-EF03	5-Jun-11	BKSB	008	-	TL	48	0.9	0.81	R	
Whitehouse Creek	WHC-EF03	5-Jun-11	BKSB	009	-	TL	44	1.1	1.29	R	
Whitehouse Creek	WHC-EF03	5-Jun-11	BKSB	010	-	TL	41	0.8	1.16	R	Heavy black spot; caudal fin
Whitehouse Creek	WHC-EF03	5-Jun-11	BKSB	011	-	TL	36	0.5	1.07	R	
Whitehouse Creek	WHC-EF03	5-Jun-11	BKSB	012	-	TL	54	1.3	0.83	R	Heavy black spot.
Grass River	GRR-F10-EF1	16-Sep-10	LOTA	001	-	TL	98	6.0	0.64	R	Good health
Grass River	GRR-F10-EF1	16-Sep-10	LOTA	002	-	TL	119	11.4	0.68	R	Good health
Grass River	GRR-F10-EF1	16-Sep-10	LOTA	003	-	TL	160	25.1	0.61	R	Good health
Grass River	GRR-F10-EF1	16-Sep-10	LOTA	004	-	TL	97	5.7	0.62	R	Good health
Grass River	GRR-F10-EF1	16-Sep-10	LOTA	005	-	TL	111	7.5	0.55	R	Good health
Grass River	GRR-F10-EF1	16-Sep-10	LOTA	006	-	TL	93	5.5	0.68	R	Good health
Grass River	GRR-F10-EF1	16-Sep-10	LOTA	007	-	TL	99	6.5	0.67	R	Good health
Grass River	GRR-F10-EF1	16-Sep-10	LOTA	008	-	TL	185	34.7	0.55	R	Good health
Grass River	GRR-F10-EF1	16-Sep-10	LNDC	001	-	FL	70	3.4	0.99	R	Good health
Grass River	GRR-F10-EF1	16-Sep-10	LNDC	002	-	FL	40	0.8	1.25	R	Good health
Grass River	GRR-F10-EF1	16-Sep-10	SLSC	001	GRR-F10-SLSC001	TL	72	4.6	1.23	S (A)	Good health
Grass River	GRR-F10-EF1	16-Sep-10	SLSC	002	-	TL	40	1.0	1.56	R	Good health
Grass River	GRR-F10-EF1	16-Sep-10	SLSC	003	GRR-F10-SLSC003	TL	72	4.7	1.26	S (A)	Good health
Grass River	GRR-F10-EF1	16-Sep-10	SLSC	004	-	TL	44	1.0	1.17	R	Good health
Grass River	GRR-F10-EF1	16-Sep-10	SLSC	005	-	TL	43	0.9	1.13	R	Good health
Grass River	GRR-F10-EF1	16-Sep-10	SLSC	006	-	TL	38	0.5	0.91	R	Good health
Grass River	GRR-F10-EF1	16-Sep-10	SLSC	007	-	TL	34	0.4	1.02	R	Good health
Grass River	GRR-F10-EF1	16-Sep-10	SLSC	008	GRR-F10-SLSC008	TL	73	5.2	1.34	S (A)	Good health
Grass River	GRR-F10-EF1	16-Sep-10	SLSC	009	-	TL	44	1.0	1.17	R	Good health
Grass River	GRR-F10-EF1	16-Sep-10	SLSC	010	-	TL	45	1.2	1.32	R	Good health
Grass River	GRR-F10-EF1	16-Sep-10	SLSC	011	-	TL	46	1.2	1.23	R	Good health
Grass River	GRR-F10-EF1	16-Sep-10	SLSC	012	-	TL	36	0.5	1.07	R	Good health
Grass River	GRR-F10-EF1	16-Sep-10	SLSC	013	-	TL	37	0.6	1.18	R	Good health
Grass River	GRR-F10-EF1	16-Sep-10	SLSC	014	GRR-F10-SLSC014	TL	81	6.7	1.26	S (A)	Good health
Grass River	GRR-F10-EF1	16-Sep-10	SLSC	015	GRR-F10-SLSC015	TL	81	6.7	1.26	S (A)	Good health
Grass River	GRR-F10-EF1	16-Sep-10	SLSC	016	GRR-F10-SLSC016	TL	88	8.6	1.26	S (A)	Good health
Grass River	GRR-F10-EF1	16-Sep-10	SLSC	017	GRR-F10-SLSC017	TL	88	8.5	1.25	S (A)	Good health
Grass River	GRR-F10-EF1	16-Sep-10	SLSC	018	-	TL	63	2.8	1.12	R	Good health
Grass River	GRR-F10-EF1	16-Sep-10	SLSC	019	-	TL	35	0.4	0.93	R	Good health
Grass River	GRR-F10-EF1	16-Sep-10	SLSC	020	-	TL	46	1.1	1.13	R	Good health
Grass River	GRR-F10-EF1	16-Sep-10	SLSC	021	-	TL	44	0.8	0.94	R	Good health
Grass River	GRR-F10-EF1	16-Sep-10	SLSC	022	-	TL	32	0.2	0.61	R	Good health
Grass River	GRR-F10-EF1	16-Sep-10	SLSC	023	GRR-F10-SLSC023	TL	79	5.0	1.01	S (A)	Good health
Grass River	GRR-F10-EF1	16-Sep-10	SLSC	024	GRR-F10-SLSC024	TL	73	4.4	1.13	S (A)	Good health
Grass River	GRR-F10-EF1	16-Sep-10	SLSC	025	GRR-F10-SLSC025	TL	68	4.2	1.34	S (A)	Good health

Table - 10 - Detailed Fish Health Information of Small-Bodied Fish

Waterbody	Station	Date	Species	Number	Biomarker	Length Type	Length (mm)	Weight (g)	Condition (g/mm ³)	Fate	Comments
Grass River	GRR-F10-EF1	16-Sep-10	SLSC	026	-	TL	45	1.0	1.10	R	Good health
Grass River	GRR-F10-EF1	16-Sep-10	SLSC	027	-	TL	42	0.8	1.08	R	Good health
Grass River	GRR-F10-EF1	16-Sep-10	SLSC	028	-	TL	48	1.2	1.09	R	Good health
Grass River	GRR-F10-GN1	19-Sep-10	LKWF	001	-	FL	394	340.2	0.56	R	-
Grass River	GRR-F10-GN1	19-Sep-10	LKWF	002	-	FL	343	226.8	0.56	R	-
Grass River	GRR-F10-GN1	19-Sep-10	NRPK	001	-	FL	800	2041.2	0.40	R	-
Grass River	GRR-F10-GN1	19-Sep-10	NRPK	002	-	FL	597	1133.9	0.53	R	-
Grass River	GRR-F10-GN1	19-Sep-10	WALL	001	-	FL	660	3175.1	1.10	R	-
Grass River	GRR-F10-GN1	19-Sep-10	WALL	002	-	FL	457	1133.9	1.19	R	-
Grass River	GRR-F10-GN1	19-Sep-10	WALL	003	-	FL	610	1814.4	0.80	R	-
Grass River	GRR-F10-GN1	19-Sep-10	WALL	004	-	FL	730	3855.5	0.99	R	-
Grass River	GRR-F10-GN1	19-Sep-10	WALL	005	-	FL	483	907.2	0.81	R	-
Grass River	GRR-F10-GN1	19-Sep-10	WALL	006	-	FL	559	1133.9	0.65	R	-
Grass River	GRR-F10-GN1	19-Sep-10	WALL	007	-	FL	508	907.2	0.69	R	-
Grass River	GRR-F10-GN1	19-Sep-10	WALL	008	-	FL	584	1814.4	0.91	R	-
Grass River	GRR-F10-GN1	19-Sep-10	WALL	009	-	FL	520	1360.8	0.97	R	-
Grass River	GRR-F10-GN1	19-Sep-10	WALL	010	-	FL	457	680.4	0.71	R	-
Grass River	GRR-F10-GN1	19-Sep-10	WALL	011	-	FL	457	680.4	0.71	R	-
Grass River	GRR-F10-MT4	19-Sep-10	BKSB	001	-	TL	47	0.8	0.77	R	Good health
Grass River	GRR-F10-MT4	19-Sep-10	BKSB	002	-	TL	46	0.7	0.72	R	Good health
Grass River	GRR-F10-MT4	19-Sep-10	BKSB	003	-	TL	48	0.9	0.81	R	Good health
Grass River	GRR-F10-MT4	19-Sep-10	BKSB	004	-	TL	46	0.8	0.82	R	Good health

Notes:

Numbers in parentheses indicate liver weights for large-bodied fish.

S (A) = sacrificed for metals analysis; S (I) = sacrificed and kept for identification; M = mortality; R = released alive; FL = fork length; TL = total length; BRST = Brook Stickleback; BURB = Burbot; EMSH = Emerald Shiner; FTMN = fathead minnow; JHDR = Johnny Darter; LKTR = Lake Trout; LKWH = Lake Whitefish; LNDC = Longnose Dace; NRPK = Northern Pike; PRDC = Pearl Dace; SLSC = Slimy Sculpin; SPSH = Spottail Shiner; WALL = Walleye; WHSC = White Sucker; YLPR = Yellow Perc; - = not applicable; FR = pectoral fin ray collected as ageing structures; CL = cleithrum collected as ageing structures; SC = scales collected as ageing structures.

Table - 11 - Fish Summary Statistics

Species	Waterbody	n	Length (mm)				Body Weight (g)				Condition (g/mm ³)			
			Min	Max	Mean	SD	Min	Max	Mean	SD	Min	Max	Mean	SD
Brook Stickleback	Reed Lake	1	55	-	-	-	0.9	-	-	-	0.54	-	-	-
	Unnamed Creek 2	8	31	65	48	12.72	0.2	2.3	1.14	0.81	0.67	1.39	0.86	0.249
	Unnamed Creek 4	3	45	50	48	2.52	0.7	0.7	0.70	0.00	0.56	0.77	0.65	0.106
	Unnamed Lake 1	100	47	86	64	6.95	0.7	3.6	1.7	0.66	0.37	1.20	0.64	0.133
	Unnamed Lake 2	5	45	62	56	7.79	0.7	1.8	1.36	0.49	0.66	0.77	0.74	0.044
	Unnamed Lake 3	72	53	75	62	5.21	0.6	2.8	1.52	0.42	0.29	0.93	0.63	0.101
	Unnamed Lake 4	67	45	71	52	6.08	0.4	2.2	0.99	0.39	0.29	1.64	0.69	0.208
	Unnamed Lake 5	70	42	62	53	3.93	0.5	1.8	0.98	0.25	0.36	1.14	0.66	0.138
	Whitehouse Creek	12	32	54	43.3	5.9	0.3	1.3	0.8	0.3	0.81	1.29	0.99	0.17
Grass River	4	46	48	47	0.96	0.7	0.9	0.80	0.08	0.72	0.82	0.78	0.047	
Burbot	Whitehouse Creek	1	145	-	-	-	16.9	-	-	-	0.55	-	-	-
	Grass River	8	93	185	120	33.99	5.5	34.7	12.80	11.02	0.55	0.68	0.63	0.054
Emerald Shiner	Reed Lake	1	90	-	-	-	9.2	-	-	-	1.26	-	-	-
Fathead Minnow	Unnamed Lake 2	5	40	55	46	5.63	0.7	1.6	1.00	0.35	0.87	1.25	1.00	0.155
	Unnamed Lake 4	103	50	119	62	8.74	1.2	7.1	2.64	1.19	0.42	1.37	1.06	0.139
	Unnamed Lake 5	95	44	82	55	8.39	0.5	5.9	1.88	1.14	0.36	1.81	1.03	0.145
Iowa Darter	Whitehouse Creek	7	32	47	41.4	5.8	0.4	0.9	0.5	0.3	0.31	0.93	0.67	0.23
Johnny Darter	Reed Lake	1	59	-	-	-	1.4	-	-	-	0.68	-	-	-
Lake Trout	Reed Lake	1	90	-	-	-	5.4	-	-	-	0.74	-	-	-
Lake Whitefish	Reed Lake	4	60	419	283	162.83	1.7	-	-	-	0.79	-	-	-
	Grass River	2	343	394	369	36.06	226.8	340.2	283.5	80.2	0.56	0.56	0.56	0.004
Longnose Dace	Grass River	2	40	70	55	21.21	0.8	3.4	2.10	1.84	0.99	1.25	1.12	0.183
Northern Pike	Reed Lake	11	400	933	620	147.08	340.2	6350.3	1791.7	1774.4	0.18	0.84	0.55	0.226
	Unnamed Lake 2	7	194	270	237	26.26	57.1	158.4	107.1	33.3	0.73	0.83	0.78	0.030
	Whitehouse Creek	2	167	171	-	2.80	35.4	41.2	-	4.1	0.76	0.82	-	0.05
	Grass River	2	597	800	699	143.54	1133.9	2041.2	1587.6	641.6	0.40	0.53	0.47	0.095
Pearl Dace	Unnamed Creek 2	25	31	102	57	24.38	0.2	11.1	3.1	3.5	0.56	1.52	0.93	0.197
	Whitehouse Creek	4	105	48	154	48.27	17.025	0.9	34.50	16.2	0.96	0.81	1.09	0.115
Slimy Sculpin	Grass River	28	32	88	55	18.48	0.2	8.6	2.69	2.63	0.61	1.56	1.15	0.176
Spottail Shiner	Reed Lake	1	67	-	-	-	4.6	-	-	-	1.53	-	-	-
Walleye	Reed Lake	26	356	610	510	65.26	340.2	2267.9	1260.5	549.3	0.56	1.10	0.89	0.137
	Grass River	11	457	730	548	90.76	680.4	3855.5	1587.6	1039.3	0.65	1.19	0.87	0.179
White Sucker	Reed Lake	6	343	444	394	34.82	-	-	-	-	-	-	-	-
	Unnamed Lake 2	3	243	405	307	85.99	186.8	1003.8	491.4	446.4	1.30	1.51	1.40	0.106
Yellow Perch	Reed Lake	96	50	170	61	16.67	1	14.4	2.17	1.90	0.59	1.76	0.96	0.229

Notes:

n = number of individuals; *mm* = millimetres; *g* = grams; *g/mm³* = grams per cubic millimetre; *SD* = standard deviation; - = not applicable

Table - 12 - Log-10 Transformed Length-Weight Regression Equation and Correlation Coeff

Species	Waterbody	n	Regression Equation	r ²
Brook Stickleback	Unnamed Creek 2	8	Log10-L = 3.10*Log10-W - 5.29	0.85
	Unnamed Lake 1	100	Log10-L = 2.93*Log10-W - 5.08	0.73
	Unnamed Lake 2	5	Log10-L = 2.85*Log10-W - 4.82	0.92
	Unnamed Lake 3	72	Log10-L = 2.67*Log10-W - 4.61	0.64
	Unnamed Lake 4	67	Log10-L = 2.19*Log10-W - 3.78	0.44
	Unnamed Lake 5	70	Log10-L = 2.18*Log10-W - 3.78	0.40
	Whitehouse Creek	12	Log10-L = 2.67*Log10-W - 4.47	0.85
Burbot	Grass River	8	Log10-L = 2.79*Log10-W - 4.78	0.99
Fathead Minnow	Unnamed Lake 2	5	Log10-L = 2.42*Log10-W - 4.04	0.83
	Unnamed Lake 4	103	Log10-L = 2.91*Log10-W - 4.81	0.86
	Unnamed Lake 5	95	Log10-L = 3.37*Log10-W - 5.63	0.91
Iowa Darter	Whitehouse Creek	7	Log10-L = 4.17*Log10-W - 7.08	0.76
Northern Pike	Reed Lake	11	Log10-L = 3.87*Log10-W - 7.73	0.67
	Unnamed Lake 2	7	Log10-L = 2.92*Log10-W - 4.93	0.99
Pearl Dace	Unnamed Creek 2	25	Log10-L = 3.31*Log10-W - 5.57	0.99
Slimy Sculpin	Grass River	28	Log10-L = 3.25*Log10-W - 5.38	0.98
Walleye	Reed Lake	26	Log10-L = 3.46*Log10-W - 6.30	0.90
	Grass River	11	Log10-L = 3.41*Log10-W - 6.20	0.89
Yellow Perch	Reed Lake	96	Log10-L = 3.21*Log10-W - 5.39	0.78

Notes:

r² = correlation coefficient; L = length; W = weight; - = insufficient data.

Regression performed only when at least five (5) individuals had both length and weight measured.

Table - 13 - Detailed Fish Tissue Chemistry Results

Waterbody	DL	MWQSOG	Reed Lake									
			RDL-F10-YLPR001	RDL-F10-YLPR002	RDL-F10-YLPR003	RDL-F10-YLPR004	RDL-F10-YLPR051	RDL-F10-YLPR063	RDL-F10-YLPR064	RDL-F10-YLPR065	RDL-F10-YLPR066	RDL-F10-YLPR067
Length (mm)	1	-	96	82	75	75	108	88	93	58	60	59
Weight (g)	0.1	-	9.5	6.3	5.1	5.2	14.4	7.3	8.4	2.0	1.9	2.1
Moisture (%)	0.10	-	72.9	75.7	74.3	75.3	74.3	73.7	75.1	76.2	75.4	75.2
Aluminum	0.60	-	2.32	1.02	<2.0	10.1	1.85	6.25	27.8	<2.0	2.40	<2.0
Antimony	0.010	-	<0.010	<0.010	<0.020	<0.020	<0.010	<0.010	<0.010	<0.040	<0.040	<0.040
Arsenic	0.010	3.5	0.047	0.047	0.054	0.081	0.037	0.044	0.045	0.109	0.094	0.098
Barium	0.040	-	0.619	1.16	0.773	1.67	0.572	0.847	0.773	0.664	0.810	0.928
Beryllium	0.010	-	<0.010	<0.010	<0.020	<0.020	<0.010	<0.010	<0.010	<0.040	<0.040	<0.040
Bismuth	0.0040	-	<0.0050	<0.0040	<0.0060	<0.0070	<0.0040	<0.0040	<0.0040	<0.020	<0.020	<0.020
Boron	0.20	-	<0.20	<0.20	<0.30	<0.40	<0.20	<0.20	<0.20	<0.80	2.25	<0.80
Cadmium	0.0040	-	0.0056	0.0092	0.0074	0.0072	0.0076	0.0076	0.0069	<0.020	<0.020	<0.020
Calcium	10	-	10,800	10,600	12,600	10,900	10,600	11,000	10,000	9,880	10,800	10,900
Cesium	0.0040	-	0.0042	<0.0040	0.0246	<0.0050	<0.0040	<0.0040	0.0048	<0.020	<0.020	<0.020
Chromium	0.10	-	0.39	0.25	0.67	0.44	0.33	0.30	0.50	1.85	0.96	1.03
Cobalt	0.020	-	<0.020	<0.020	<0.030	<0.030	<0.020	<0.020	<0.020	<0.080	<0.080	<0.080
Copper	0.020	-	0.454	0.436	0.572	0.573	0.364	0.552	0.540	0.715	0.645	0.653
Iron	4.0	-	16.1	16.5	23.6	32.2	14.7	26.4	61.6	27.3	19.2	19.9
Lead	0.040	0.5	<0.050	<0.040	<0.060	<0.070	<0.040	<0.040	0.052	<0.20	<0.20	<0.20
Lithium	0.20	-	<0.20	<0.20	<0.30	<0.30	<0.20	<0.20	<0.20	<0.80	<0.80	<0.80
Magnesium	2.0	-	415	387	441	411	388	410	395	357	392	364
Manganese	0.040	-	6.19	5.94	5.58	20.9	4.20	4.69	10.5	3.97	5.74	6.14
Mercury	0.0010	0.5	0.0117	0.0084	0.0134	0.0115	0.0136	0.0131	0.0113	0.0058	0.0061	0.0054
Molybdenum	0.010	-	0.011	0.012	0.013	<0.020	<0.010	0.031	0.024	<0.040	<0.040	0.025
Nickel	0.10	-	<0.10	<0.10	0.24	<0.20	0.10	<0.10	0.14	0.46	<0.40	0.30
Phosphorus	4.0	-	7,500	7,390	8,650	7,530	7,390	7,770	7,280	6,590	7,050	7,130
Potassium	4.0	-	3,560	3,290	3,180	2,990	3,360	3,190	3,360	3,090	3,270	2,970
Selenium	0.10	-	0.38	0.42	0.37	0.29	0.38	0.36	0.26	0.41	<0.40	0.36
Silicon	4.00	-	-	-	-	-	-	-	-	-	-	-
Silver	0.020	-	<0.020	<0.020	<0.030	<0.030	<0.020	<0.020	<0.020	<0.080	<0.080	<0.080
Sodium	2.0	-	763	892	908	890	768	936	845	825	806	817
Strontium	0.010	-	4.17	4.75	4.49	4.66	3.97	4.66	3.91	4.01	4.19	3.76
Tellurium	0.040	-	<0.050	<0.040	<0.060	<0.070	<0.040	<0.040	<0.040	<0.20	<0.20	<0.20
Thallium	0.0060	-	<0.0070	<0.0060	<0.0090	<0.010	<0.0060	<0.0060	<0.0060	<0.020	<0.020	<0.020
Thorium	0.010	-	<0.010	<0.010	<0.020	<0.020	<0.010	<0.010	<0.010	<0.040	<0.040	<0.040
Tin	0.040	-	<0.050	<0.040	<0.060	<0.070	<0.040	<0.040	<0.040	<0.20	<0.20	<0.20
Titanium	0.020	-	0.164	0.138	0.165	0.590	0.160	0.359	1.53	0.153	0.176	0.115
Uranium	0.0020	-	<0.0020	<0.0020	<0.0030	<0.0030	<0.0020	0.0023	0.0038	<0.0080	<0.010	<0.0080
Vanadium	0.10	-	0.12	0.14	0.14	<0.20	0.12	0.12	0.17	<0.40	<0.50	<0.40
Zinc	0.20	-	21.2	20.0	24.7	25.1	19.3	22.3	19.4	24.9	28.9	23.5
Zirconium	0.60	-	<0.60	<0.60	<0.90	<1.0	<0.60	<0.60	<0.60	<2.0	<2.0	<2.0

Notes:

All concentrations are in wet weight mg/kg, except where noted.

DL = detection limit; mm = millimetre; g = gram; % = percent; MWQSOG = Manitoba Water Quality Standards, Objectives and Guidelines (Williamson 2002); YLPR = Yellow Perch; BRST = Brook Stickleback; FTMN = Fathead Minnow; SLSC = Slimy Sculpin; - = not applicable; < = less than.

Table - 13 - Detailed Fish Tissue Chemistry Results

Waterbody	DL	MWQSOG	Reed Lake		Unnamed Lake 1							
			RDL-F10-YLPR068	RDL-F10-YLPR069	UL1-F10-BRST003	UL1-F10-BRST004	UL1-F10-BRST006	UL1-F10-BRST007	UL1-F10-BRST011	UL1-F10-BRST016	UL1-F10-BRST017	UL1-F10-BRST018
Length (mm)	1	-	59	58	73	68	68	70	72	74	75	71
Weight (g)	0.1	-	1.7	1.5	2.3	2.6	2.4	2.5	3.3	3.4	2.4	2.0
Moisture (%)	0.10	-	74.1	77.1	63.6	75.6	73.5	73.3	73.2	76.2	75.6	76.2
Aluminum	0.60	-	<3.0	<3.0	3.50	2.66	2.00	<2.0	3.74	4.25	3.43	3.88
Antimony	0.010	-	<0.040	<0.040	<0.040	<0.020	<0.030	<0.030	<0.020	<0.020	<0.030	<0.030
Arsenic	0.010	3.5	0.112	0.100	0.143	0.072	0.079	0.088	0.211	0.125	0.129	0.074
Barium	0.040	-	1.16	0.736	2.11	1.47	1.27	1.70	1.30	1.13	1.57	1.22
Beryllium	0.010	-	<0.040	<0.040	<0.040	<0.020	<0.030	<0.030	<0.020	<0.020	<0.030	<0.030
Bismuth	0.0040	-	<0.020	<0.020	<0.010	<0.010	<0.010	<0.010	<0.0080	<0.0090	<0.020	<0.010
Boron	0.20	-	<0.90	<0.80	<0.70	<0.50	<0.60	<0.60	1.14	<0.40	<0.60	<0.60
Cadmium	0.0040	-	<0.020	<0.020	0.0169	0.0105	<0.010	<0.010	0.0099	0.0140	<0.020	0.0113
Calcium	10	-	11,700	9,720	12,300	9,350	8,390	10,900	8,720	8,920	9,760	7,980
Cesium	0.0040	-	<0.020	<0.020	0.0214	0.0141	0.0165	0.0170	0.0200	0.0205	0.0205	0.0189
Chromium	0.10	-	1.58	1.77	1.54	0.69	1.55	0.76	1.12	0.65	0.88	0.90
Cobalt	0.020	-	<0.090	<0.080	<0.070	<0.050	<0.060	<0.060	<0.040	<0.040	<0.060	<0.060
Copper	0.020	-	0.712	0.544	4.13	3.24	3.63	3.31	3.06	3.90	4.64	2.55
Iron	4.0	-	25.2	25.4	34.4	27.5	37.3	28.7	26.9	33.8	27.9	23.1
Lead	0.040	0.5	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10	<0.080	<0.090	<0.10	<0.10
Lithium	0.20	-	<0.90	<0.80	<0.70	<0.50	<0.60	<0.60	<0.40	<0.40	<0.60	<0.60
Magnesium	2.0	-	388	375	539	396	492	523	407	370	412	524
Manganese	0.040	-	8.34	3.59	10.7	8.52	7.33	10.3	8.22	7.83	8.46	7.65
Mercury	0.0010	0.5	0.0063	0.0051	0.0225	0.0191	0.0137	0.0187	0.0184	0.0305	0.0366	0.0143
Molybdenum	0.010	-	0.018	0.013	0.051	0.042	0.030	0.044	0.042	0.050	0.048	0.038
Nickel	0.10	-	0.52	0.67	0.45	<0.20	0.38	<0.30	0.40	<0.20	<0.30	<0.30
Phosphorus	4.0	-	7,360	6,540	8,310	6,300	6,110	6,500	5,970	6,150	5,980	5,470
Potassium	4.0	-	3,160	3,160	3,920	2,650	2,990	2,480	2,700	2,520	3,080	2,940
Selenium	0.10	-	<0.40	0.42	0.73	0.47	0.44	0.45	0.71	0.52	0.56	0.40
Silicon	4.00	-	-	-	-	-	-	-	-	-	-	-
Silver	0.020	-	<0.090	<0.080	<0.070	<0.050	<0.060	<0.060	<0.040	<0.040	<0.060	<0.060
Sodium	2.0	-	859	824	1,650	1,170	1,220	1,190	1,070	1,220	1,260	1,100
Strontium	0.010	-	4.74	4.07	9.21	5.98	5.68	7.61	6.17	5.35	6.80	5.44
Tellurium	0.040	-	<0.20	<0.20	<0.20	<0.10	<0.10	<0.10	<0.080	<0.090	<0.10	<0.10
Thallium	0.0060	-	<0.030	<0.030	<0.020	<0.010	<0.020	<0.020	<0.010	<0.010	<0.020	<0.020
Thorium	0.010	-	<0.040	<0.040	<0.040	<0.020	<0.030	<0.030	<0.020	<0.020	<0.030	<0.030
Tin	0.040	-	<0.20	0.171	<0.10	<0.10	<0.10	<0.10	<0.080	<0.090	<0.10	<0.10
Titanium	0.020	-	0.189	0.252	0.293	0.175	0.158	0.159	0.188	0.187	0.214	0.178
Uranium	0.0020	-	<0.0090	<0.0080	<0.0070	<0.0050	<0.0060	<0.0060	<0.0040	<0.0040	<0.0060	<0.0060
Vanadium	0.10	-	<0.40	<0.40	<0.40	<0.20	<0.30	<0.30	<0.20	<0.20	<0.30	<0.30
Zinc	0.20	-	28.1	23.9	58.1	49.7	34.1	50.9	36.8	29.8	34.0	35.8
Zirconium	0.60	-	<3.0	<3.0	<2.0	<1.0	<2.0	<2.0	<1.0	<1.0	<2.0	<2.0

Notes:

All concentrations are in wet weight mg/kg, except where noted.

DL = detection limit; mm = millimetre; g = gram; % = percent; MWQSOG = Manitoba Water Quality Standards, Objectives and Guidelines (Williamson 2002); YLPR = Yellow Perch; BRST = Brook Stickleback; FTMN = Fathead Minnow; SLSC = Slimy Sculpin; - = not applicable; < = less than.

Table - 13 - Detailed Fish Tissue Chemistry Results

Waterbody	DL	MWQSOG	Unnamed Lake 1				Unnamed Lake 3						
			UL1-F10-BRST019	UL1-F10-BRST030	UL3-F10-BRST001	UL3-F10-BRST002	UL3-F10-BRST003	UL3-F10-BRST012	UL3-F10-BRST015	UL3-F10-BRST017	UL3-F10-BRST018	UL3-F10-BRST023	
Length (mm)	1	-	70	74	67	69	64	65	62	69	69	65	
Weight (g)	0.1	-	2.6	2.4	2.1	2.1	2.4	2.0	1.8	1.8	1.7	1.7	
Moisture (%)	0.10	-	73.1	75.6	76.5	76.0	82.1	76.5	77.2	92.0	77.5	76.3	
Aluminum	0.60	-	2.92	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<0.70	<2.0	<2.0	
Antimony	0.010	-	<0.030	<0.030	<0.030	<0.030	0.064	<0.030	<0.040	<0.010	<0.040	<0.040	
Arsenic	0.010	3.5	0.092	0.092	0.085	0.108	0.072	0.091	0.135	0.025	0.091	0.094	
Barium	0.040	-	1.89	1.73	1.11	1.19	1.12	1.15	1.57	0.372	1.31	1.03	
Beryllium	0.010	-	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.040	<0.010	<0.040	<0.030	
Bismuth	0.0040	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020	<0.0040	<0.010	<0.010	
Boron	0.20	-	<0.60	<0.60	<0.60	<0.70	<0.60	<0.60	<0.80	<0.20	<0.70	<0.70	
Cadmium	0.0040	-	<0.010	0.0135	0.0143	0.0160	<0.010	0.0148	0.0214	<0.0040	0.0122	0.0159	
Calcium	10	-	10,600	8,840	7,310	8,200	5,210	8,060	8,100	2,420	8,480	7,760	
Cesium	0.0040	-	0.0157	0.0152	0.0118	0.0118	<0.010	0.0129	<0.020	<0.0040	0.0103	0.0122	
Chromium	0.10	-	1.20	1.76	1.17	1.45	0.40	1.58	0.87	0.54	0.78	0.81	
Cobalt	0.020	-	<0.060	<0.060	<0.060	<0.070	<0.060	<0.060	<0.080	<0.020	<0.070	<0.070	
Copper	0.020	-	2.74	3.22	2.00	2.18	1.71	2.62	2.59	0.637	1.94	1.96	
Iron	4.0	-	24.6	29.3	22.5	24.8	26.1	24.8	20.6	8.7	29.3	23.2	
Lead	0.040	0.5	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.040	<0.10	<0.10	
Lithium	0.20	-	<0.60	<0.60	<0.60	<0.70	<0.60	<0.60	<0.80	<0.20	<0.70	<0.70	
Magnesium	2.0	-	443	392	345	369	259	342	342	114	390	352	
Manganese	0.040	-	11.2	12.6	6.56	6.78	4.85	7.59	5.41	1.65	8.74	6.40	
Mercury	0.0010	0.5	0.0153	0.0189	0.0118	0.0125	0.0076	0.0142	0.0099	0.0035	0.0104	0.0114	
Molybdenum	0.010	-	0.037	0.041	0.037	0.037	0.038	0.047	0.044	0.011	0.036	0.040	
Nickel	0.10	-	0.33	0.54	<0.30	0.38	<0.30	0.57	<0.40	0.12	<0.40	<0.30	
Phosphorus	4.0	-	6,320	5,470	5,150	5,490	3,660	4,810	4,980	1,770	5,420	5,730	
Potassium	4.0	-	3,280	2,900	2,860	2,910	2,020	2,750	2,770	912	2,770	2,810	
Selenium	0.10	-	0.48	0.45	0.41	0.43	0.34	0.42	0.53	0.15	0.44	0.46	
Silicon	4.00	-	-	-	-	-	-	-	-	-	-	-	
Silver	0.020	-	<0.060	<0.060	<0.060	<0.070	<0.060	<0.060	<0.080	<0.020	<0.070	<0.070	
Sodium	2.0	-	1,120	1,280	934	1,110	1,510	1,090	1,040	321	954	1,020	
Strontium	0.010	-	7.14	6.24	3.34	3.76	2.25	3.86	3.74	1.14	3.89	3.57	
Tellurium	0.040	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.040	<0.10	<0.10	
Thallium	0.0060	-	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.0070	<0.020	<0.020	
Thorium	0.010	-	<0.030	<0.030	<0.030	<0.030	<0.030	<0.030	<0.040	<0.010	<0.040	<0.030	
Tin	0.040	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.040	<0.10	<0.10	
Titanium	0.020	-	0.190	0.198	0.119	0.154	0.066	0.116	0.121	0.032	0.140	0.163	
Uranium	0.0020	-	<0.0060	<0.0060	<0.0060	<0.0070	<0.0060	<0.0060	<0.0080	<0.0020	<0.0070	<0.0070	
Vanadium	0.10	-	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.40	<0.10	<0.40	<0.30	
Zinc	0.20	-	39.3	43.7	32.7	33.5	22.7	35.3	30.6	9.10	33.1	29.6	
Zirconium	0.60	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<0.70	<2.0	<2.0	

Notes:

All concentrations are in wet weight mg/kg, except where noted.

DL = detection limit; mm = millimetre; g = gram; % = percent; MWQSOG = Manitoba Water Quality Standards, Objectives and Guidelines (Williamson 2002); YLPR = Yellow Perch; BRST = Brook Stickleback; FTMN = Fathead Minnow; SLSC = Slimy Sculpin; - = not applicable; < = less than.

Table - 13 - Detailed Fish Tissue Chemistry Results

Waterbody	DL	MWQSOG	Unnamed Lake 3		Unnamed Lake 4							
			UL3-F10-BRST025	UL3-F10-BRST026	UL4-F10-FTMN001	UL4-F10-FTMN003	UL4-F10-FTMN004	UL4-F10-FTMN023	UL4-F10-FTMN031	UL4-F10-FTMN050	UL4-F10-FTMN088	UL4-F10-FTMN101
Length (mm)	1	-	63	71	65	71	62	78	79	75	75	78
Weight (g)	0.1	-	1.7	2.4	2.6	3.8	3.1	6.0	5.7	5.3	4.9	6.2
Moisture (%)	0.10	-	75.9	78.3	75.9	75.3	76.3	73.0	74.4	74.4	76.5	74.3
Aluminum	0.60	-	<3.0	<2.0	<2.0	1.75	2.33	0.87	<0.70	0.86	1.58	2.25
Antimony	0.010	-	<0.050	<0.030	<0.030	<0.020	<0.020	<0.010	<0.010	<0.010	<0.010	<0.010
Arsenic	0.010	3.5	0.090	0.082	0.063	0.047	0.084	0.074	0.041	0.041	0.067	0.068
Barium	0.040	-	1.49	0.965	12.2	12.6	4.99	3.34	2.38	4.20	4.80	3.62
Beryllium	0.010	-	<0.050	<0.030	<0.030	<0.020	<0.020	<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth	0.0040	-	<0.020	<0.010	<0.010	<0.0080	<0.0090	<0.0040	<0.0050	<0.0060	<0.0060	<0.0040
Boron	0.20	-	<0.90	<0.50	<0.60	0.24	<0.40	<0.20	<0.20	<0.30	<0.20	<0.20
Cadmium	0.0040	-	<0.020	0.0132	0.0137	0.0147	0.0117	0.0129	0.0071	0.0103	0.0122	0.0068
Calcium	10	-	9,030	6,970	7,840	10,300	8,340	8,200	9,330	8,870	9,310	9,110
Cesium	0.0040	-	<0.020	0.0117	<0.010	<0.0080	<0.0090	0.0057	0.0060	0.0053	<0.0060	0.0074
Chromium	0.10	-	1.47	0.88	0.89	0.24	1.34	0.49	0.28	0.57	0.23	0.50
Cobalt	0.020	-	<0.090	<0.050	<0.060	<0.040	<0.040	<0.020	<0.020	<0.030	<0.030	<0.020
Copper	0.020	-	1.72	2.16	1.04	0.797	1.39	0.917	1.01	1.36	1.25	1.19
Iron	4.0	-	29.5	17.8	33.1	33.2	44.4	31.7	24.9	37.5	34.5	39.7
Lead	0.040	0.5	<0.20	<0.10	<0.10	<0.080	<0.090	<0.040	<0.050	<0.060	<0.060	<0.040
Lithium	0.20	-	<0.90	<0.50	<0.60	<0.40	<0.40	<0.20	<0.20	<0.30	<0.30	<0.20
Magnesium	2.0	-	389	319	348	384	377	373	363	370	395	395
Manganese	0.040	-	9.60	4.90	2.78	3.09	5.06	2.19	2.11	3.22	3.11	2.93
Mercury	0.0010	0.5	0.0081	0.0117	0.0149	0.0486	0.0180	0.0405	0.0508	0.0431	0.0375	0.0407
Molybdenum	0.010	-	0.037	0.036	0.037	0.030	0.034	0.027	0.023	0.027	0.026	0.028
Nickel	0.10	-	<0.50	<0.30	<0.30	<0.20	0.42	0.15	<0.10	0.17	<0.10	0.15
Phosphorus	4.0	-	5,980	5,060	4,160	6,130	5,240	5,660	6,690	6,070	6,390	6,070
Potassium	4.0	-	3,120	2,610	2,760	2,280	2,570	2,680	2,890	2,820	2,920	2,720
Selenium	0.10	-	<0.50	0.40	0.30	0.31	0.33	0.35	0.31	0.30	0.26	0.33
Silicon	4.00	-	-	-	-	-	-	7.2	-	-	-	15.0
Silver	0.020	-	<0.090	<0.050	<0.060	<0.040	<0.040	<0.020	<0.020	<0.030	<0.030	<0.020
Sodium	2.0	-	1,030	1,070	1,010	998	1,080	1,050	1,030	964	1,140	1,040
Strontium	0.010	-	3.84	3.29	3.11	2.70	2.50	2.18	2.04	2.52	2.87	2.80
Tellurium	0.040	-	<0.20	<0.10	<0.10	<0.080	<0.090	<0.040	<0.040	<0.060	<0.060	<0.040
Thallium	0.0060	-	<0.030	<0.020	<0.020	<0.010	<0.010	<0.0060	<0.0070	<0.0080	<0.0080	<0.0060
Thorium	0.010	-	<0.050	<0.030	<0.030	<0.020	<0.020	<0.010	<0.010	<0.010	<0.010	<0.010
Tin	0.040	-	<0.20	0.189	<0.10	<0.080	<0.090	<0.040	<0.050	<0.060	<0.060	<0.040
Titanium	0.020	-	0.146	0.124	0.163	0.144	0.181	0.147	0.078	0.121	0.113	0.154
Uranium	0.0020	-	<0.0090	<0.0050	<0.0060	<0.0040	<0.0040	<0.0020	<0.0020	<0.0030	<0.0030	<0.0020
Vanadium	0.10	-	<0.50	<0.30	<0.30	<0.20	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10
Zinc	0.20	-	34.6	28.9	30.2	42.4	37.4	43.6	33.1	28.6	35.4	34.1
Zirconium	0.60	-	<3.0	<2.0	<2.0	<1.0	<1.0	<0.60	<0.70	<0.80	<0.80	<0.60

Notes:

All concentrations are in wet weight mg/kg, except where noted.

DL = detection limit; mm = millimetre; g = gram; % = percent; MWQSOG = Manitoba Water Quality Standards, Objectives and Guidelines (Williamson 2002); YLPR = Yellow Perch; BRST = Brook Stickleback; FTMN = Fathead Minnow; SLSC = Slimy Sculpin; - = not applicable; < = less than.

Table - 13 - Detailed Fish Tissue Chemistry Results

Waterbody	DL	MWQSOG	Unnamed Lake 4				Unnamed Lake 5						
			UL4-F10-FTMN102	UL4-F10-FTMN103	UL5-F10-FTMN001	UL5-F10-FTMN002	UL5-F10-FTMN003	UL5-F10-FTMN015	UL5-F10-FTMN029	UL5-F10-FTMN042	UL5-F10-FTMN043	UL5-F10-FTMN 054	
Length (mm)	1	-	79	78	69	66	73	78	66	74	66	68	
Weight (g)	0.1	-	5.8	4.9	3.5	3.3	4.2	5.5	5.2	4.9	3.0	3.3	
Moisture (%)	0.10	-	74.0	73.8	74.7	76.5	75.1	73.3	75.3	75.2	78.0	76.6	
Aluminum	0.60	-	0.86	1.59	1.90	3.66	3.51	3.45	4.64	1.94	5.75	2.23	
Antimony	0.010	-	<0.010	<0.010	<0.010	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
Arsenic	0.010	3.5	0.042	0.043	0.100	0.095	0.073	0.046	0.086	0.051	0.095	0.070	
Barium	0.040	-	4.17	4.74	2.66	4.10	2.58	3.05	4.14	2.15	7.63	4.98	
Beryllium	0.010	-	<0.010	<0.010	<0.010	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
Bismuth	0.0040	-	<0.0050	<0.0060	<0.0060	<0.0070	<0.0090	<0.010	<0.0080	<0.0060	<0.010	<0.0080	
Boron	0.20	-	<0.20	0.21	<0.30	<0.40	<0.40	<0.50	<0.40	<0.30	0.38	<0.40	
Cadmium	0.0040	-	0.0063	0.0117	0.0163	0.0184	0.0171	0.0138	0.0151	0.0117	0.0287	0.0145	
Calcium	10	-	8,690	8,520	9,480	10,000	8,980	7,700	9,150	9,180	12,100	9,770	
Cesium	0.0040	-	0.0055	<0.0060	<0.0060	<0.0070	<0.0090	<0.010	<0.0080	<0.0060	<0.020	<0.0080	
Chromium	0.10	-	0.45	0.42	0.23	0.29	0.43	0.26	0.36	0.33	1.30	0.84	
Cobalt	0.020	-	<0.020	<0.030	<0.030	<0.040	<0.040	<0.050	<0.040	<0.030	<0.050	<0.040	
Copper	0.020	-	0.880	0.780	1.37	0.868	1.29	0.831	0.816	0.759	1.12	0.997	
Iron	4.0	-	32.3	43.5	42.3	60.9	30.3	25.8	55.0	32.0	73.2	34.6	
Lead	0.040	0.5	<0.050	<0.060	<0.060	<0.070	<0.090	<0.10	<0.080	<0.060	<0.10	<0.080	
Lithium	0.20	-	<0.20	<0.30	<0.30	<0.40	<0.40	<0.50	<0.40	<0.30	<0.50	<0.40	
Magnesium	2.0	-	366	364	371	365	353	340	362	360	410	359	
Manganese	0.040	-	2.58	2.79	3.16	6.35	4.78	3.65	5.62	4.03	8.15	3.13	
Mercury	0.0010	0.5	0.0395	0.0454	0.0228	0.0117	0.0140	0.0141	0.0147	0.0125	0.0264	0.0141	
Molybdenum	0.010	-	0.025	0.032	0.029	0.026	0.054	0.039	0.032	0.029	0.044	0.040	
Nickel	0.10	-	0.16	0.15	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20	0.51	0.32	
Phosphorus	4.0	-	6,210	6,410	6,090	6,430	6,140	5,370	5,520	6,270	6,630	6,380	
Potassium	4.0	-	2,710	2,830	2,600	2,550	2,510	2,700	2,210	2,350	2,500	2,210	
Selenium	0.10	-	0.31	0.32	0.30	0.29	0.28	0.30	0.23	0.25	0.31	0.24	
Silicon	4.00	-	-	-	-	-	-	-	-	-	-	-	
Silver	0.020	-	<0.020	<0.030	<0.030	<0.040	<0.040	<0.050	<0.040	<0.030	<0.050	<0.040	
Sodium	2.0	-	974	1,060	1,070	1,100	995	858	953	903	1,240	940	
Strontium	0.010	-	2.99	2.25	1.95	2.61	2.00	1.91	2.15	2.26	2.73	2.54	
Tellurium	0.040	-	<0.050	<0.060	<0.060	<0.070	<0.090	<0.10	<0.080	<0.060	<0.10	<0.080	
Thallium	0.0060	-	<0.0070	<0.0090	<0.0080	<0.010	<0.010	<0.020	<0.010	<0.0090	<0.020	<0.010	
Thorium	0.010	-	<0.010	<0.010	<0.010	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	
Tin	0.040	-	<0.050	<0.060	<0.060	<0.070	<0.090	<0.10	<0.080	<0.060	<0.10	<0.080	
Titanium	0.020	-	0.120	0.101	0.128	0.166	0.196	0.216	0.251	0.130	0.241	0.150	
Uranium	0.0020	-	<0.0020	<0.0030	<0.0030	<0.0040	<0.0040	<0.0050	<0.0040	<0.0030	<0.0050	<0.0040	
Vanadium	0.10	-	<0.10	<0.10	<0.10	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20	
Zinc	0.20	-	37.1	46.3	32.4	38.1	42.8	34.2	35.9	32.0	28.7	40.6	
Zirconium	0.60	-	<0.70	<0.90	<0.80	<1.0	<1.0	<2.0	<1.0	<0.90	<2.0	<1.0	

Notes:

All concentrations are in wet weight mg/kg, except where noted.

DL = detection limit; mm = millimetre; g = gram; % = percent; MWQSOG = Manitoba Water Quality Standards, Objectives and Guidelines (Williamson 2002); YLPR = Yellow Perch; BRST = Brook Stickleback; FTMN = Fathead Minnow; SLSC = Slimy Sculpin; - = not applicable; < = less than.

Table - 13 - Detailed Fish Tissue Chemistry Results

Waterbody	DL	MWQSOG	Unnamed Lake 5		Grass River					
			UL5-F10-FTMN061	UL5-F10-FTMN071	GRR-F10-SLSC001	GRR-F10-SLSC003	GRR-F10-SLSC008	GRR-F10-SLSC014	GRR-F10-SLSC015	GRR-F10-SLSC016
Length (mm)	1	-	69	82	72	72	73	81	81	88
Weight (g)	0.1	-	3.3	5.9	4.6	4.7	5.2	6.7	6.7	8.6
Moisture (%)	0.10	-	77.9	73.9	75.1	75.9	75.6	75.9	76.7	76.8
Aluminum	0.60	-	4.31	1.43	2.57	18.3	7.32	41.2	1.72	79.3
Antimony	0.010	-	<0.020	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Arsenic	0.010	3.5	0.198	0.077	0.042	0.054	0.039	0.032	0.022	0.030
Barium	0.040	-	5.48	2.44	2.52	2.83	1.97	2.18	2.32	1.67
Beryllium	0.010	-	<0.020	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Bismuth	0.0040	-	<0.010	<0.0040	<0.0050	<0.0050	<0.0050	<0.0040	<0.0040	<0.0040
Boron	0.20	-	1.27	<0.20	<0.30	<0.30	<0.20	<0.20	<0.20	<0.20
Cadmium	0.0040	-	0.0320	0.0179	<0.0050	<0.0050	<0.0050	<0.0040	<0.0040	<0.0040
Calcium	10	-	13,700	9,260	11,300	11,300	12,900	9,850	10,400	7,870
Cesium	0.0040	-	<0.010	0.0045	<0.0050	<0.0050	<0.0050	<0.0040	<0.0040	<0.0040
Chromium	0.10	-	0.87	0.43	0.38	0.64	0.35	0.42	0.31	0.36
Cobalt	0.020	-	<0.050	<0.020	<0.030	<0.030	<0.020	0.031	<0.020	0.052
Copper	0.020	-	1.38	0.988	0.894	1.01	0.747	0.743	0.657	0.500
Iron	4.0	-	88.1	33.5	21.8	50.9	25.3	66.5	14.6	139
Lead	0.040	0.5	<0.10	<0.040	<0.050	<0.050	<0.050	<0.040	<0.040	<0.040
Lithium	0.20	-	<0.50	<0.20	<0.30	<0.30	<0.20	<0.20	<0.20	<0.20
Magnesium	2.0	-	434	359	369	398	382	338	348	324
Manganese	0.040	-	6.64	2.56	13.9	13.2	13.4	8.63	14.5	10.2
Mercury	0.0010	0.5	0.0259	0.0210	0.0087	0.0103	0.0103	0.0115	0.0093	0.0064
Molybdenum	0.010	-	0.073	0.052	0.020	0.044	0.027	0.023	0.017	0.014
Nickel	0.10	-	0.27	0.17	<0.10	0.23	<0.10	0.14	<0.10	<0.10
Phosphorus	4.0	-	7,610	6,510	7,680	7,760	8,680	6,250	6,980	5,400
Potassium	4.0	-	2,600	2,630	2,800	2,620	2,930	2,410	2,640	2,150
Selenium	0.10	-	0.37	0.28	0.22	0.22	0.18	0.20	0.20	0.15
Silicon	4.00	-	-	-	-	-	-	-	-	-
Silver	0.020	-	<0.050	<0.020	<0.030	<0.020	<0.020	<0.020	<0.020	<0.020
Sodium	2.0	-	1,280	1,030	1,250	1,330	1,200	1,020	1,170	922
Strontium	0.010	-	3.11	1.94	9.36	9.39	11.0	8.08	9.60	7.02
Tellurium	0.040	-	<0.10	<0.040	<0.050	<0.050	<0.050	<0.040	<0.040	<0.040
Thallium	0.0060	-	<0.020	<0.0070	<0.0080	<0.0080	<0.0070	<0.0060	<0.0060	<0.0060
Thorium	0.010	-	<0.020	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Tin	0.040	-	<0.10	<0.040	0.051	<0.050	<0.050	0.486	<0.040	<0.040
Titanium	0.020	-	0.194	0.116	0.179	1.03	0.593	1.92	0.192	2.51
Uranium	0.0020	-	<0.0050	<0.0020	<0.0030	<0.0030	<0.0020	0.0022	<0.0020	0.0022
Vanadium	0.10	-	<0.20	<0.10	<0.10	0.17	0.11	0.21	<0.10	0.32
Zinc	0.20	-	33.8	36.6	25.0	23.9	29.0	18.8	20.3	15.5
Zirconium	0.60	-	<2.0	<0.70	<0.80	<0.80	<0.70	<0.60	<0.60	<0.60

Notes:

All concentrations are in wet weight mg/kg, except where noted.

DL = detection limit; mm = millimetre; g = gram; % = percent; MWQSOG = Manitoba Water Quality Standards, Objectives and Guidelines (Williamson 2002); YLPR = Yellow Perch; BRST = Brook Stickleback; FTMN = Fathead Minnow; SLSC = Slimy Sculpin; - = not applicable; < = less than.

Table - 13 - Detailed Fish Tissue Chemistry Results

Waterbody	DL	MWQSOG	Grass River			
			GRR-F10-SLSC017	GRR-F10-SLSC023	GRR-F10-SLSC024	GRR-F10-SLSC025
Length (mm)	1	-	88	79	73	68
Weight (g)	0.1	-	8.5	5.0	4.4	4.2
Moisture (%)	0.10	-	75.2	77.3	75.2	76.7
Aluminum	0.60	-	14.1	72.0	112	34.1
Antimony	0.010	-	<0.010	<0.010	<0.010	<0.020
Arsenic	0.010	3.5	0.042	0.062	0.065	0.051
Barium	0.040	-	3.05	2.28	2.60	1.85
Beryllium	0.010	-	<0.010	<0.010	<0.010	<0.020
Bismuth	0.0040	-	<0.0040	<0.0040	<0.0060	<0.0060
Boron	0.20	-	<0.20	<0.20	<0.30	<0.30
Cadmium	0.0040	-	<0.0040	<0.0040	<0.0060	<0.0060
Calcium	10	-	10,000	11,500	15,100	11,400
Cesium	0.0040	-	<0.0040	<0.0040	<0.0060	<0.0060
Chromium	0.10	-	0.19	0.34	0.89	0.30
Cobalt	0.020	-	<0.020	0.049	0.080	<0.030
Copper	0.020	-	0.791	0.803	0.796	0.602
Iron	4.0	-	35.3	116	201	50.6
Lead	0.040	0.5	<0.040	<0.040	<0.060	<0.060
Lithium	0.20	-	<0.20	<0.20	<0.30	<0.30
Magnesium	2.0	-	362	415	475	385
Manganese	0.040	-	18.1	13.3	20.1	12.5
Mercury	0.0010	0.5	0.0095	0.0277	0.0105	0.0109
Molybdenum	0.010	-	0.021	0.019	0.028	<0.020
Nickel	0.10	-	<0.10	<0.10	0.26	<0.20
Phosphorus	4.0	-	6,800	7,520	8,290	8,000
Potassium	4.0	-	2,760	2,520	2,380	2,490
Selenium	0.10	-	0.21	0.23	0.23	0.19
Silicon	4.00	-	-	-	-	-
Silver	0.020	-	<0.020	<0.020	<0.030	<0.030
Sodium	2.0	-	1,190	1,150	1,270	1,130
Strontium	0.010	-	9.52	10.1	12.1	10.1
Tellurium	0.040	-	<0.040	<0.040	<0.060	<0.060
Thallium	0.0060	-	<0.0060	<0.0070	<0.0080	<0.0090
Thorium	0.010	-	<0.010	<0.010	0.015	<0.020
Tin	0.040	-	<0.040	<0.040	<0.060	<0.060
Titanium	0.020	-	0.985	1.36	3.03	0.714
Uranium	0.0020	-	0.0021	<0.0020	0.0044	<0.0030
Vanadium	0.10	-	0.13	0.26	0.45	<0.20
Zinc	0.20	-	23.2	30.3	21.8	23.3
Zirconium	0.60	-	<0.60	<0.70	<0.80	<0.90

Notes:

All concentrations are in wet weight mg/kg, except where noted.

DL = detection limit; mm = millimetre; g = gram; % = percent; MWQSOG = Manitoba Water Quality Standards, Objectives and Guidelines (Williamson 2002); YLPR = Yellow Perch; BRST = Brook Stickleback; FTMN = Fathead Minnow; SLSC = Slimy Sculpin; - = not applicable; < = less than.

Table - 14 - Muscle and Liver Tissue From Northern Pike and White Sucker in Unnamed Lake 2.

Biomarker Tissue Type	DL	MWQSOG	UL2-F10-NRPK003		UL2-F10-NRPK004		UL2-F10-NRPK005		UL2-F10-NRPK006		UL2-F10-NRPK007		UL2-F10-WHSC002		UL2-F10-WHSC003	
			Muscle	Liver	Muscle	Liver	Muscle	Liver	Muscle	Liver	Muscle	Liver	Muscle	Liver	Muscle	Liver
Length (mm)	1	-	222		253		250		219		194		405		274	
Body Weight (g)	0.1	-	85.1		123.1		114.4		86.8		57.1		1003.8		283.6	
Moisture (%)	0.10	-	80.4	72.9	80.3	70.8	81.3	71.6	79.9	73.9	82.2	73.1	82.6	82.7	79.3	78.0
Aluminum	0.60	-	1.10	<4.0	<0.60	2.64	<0.60	<3.0	<0.80	<4.0	<0.70	<6.0	0.68	0.74	0.79	<2.0
Antimony	0.010	-	<0.010	<0.080	<0.010	<0.030	<0.010	<0.050	<0.010	<0.070	<0.010	<0.10	<0.010	<0.010	<0.010	<0.030
Arsenic	0.010	3.5	0.016	<0.080	0.016	0.052	0.014	0.097	0.014	<0.070	0.014	<0.10	0.031	0.040	0.060	0.062
Barium	0.040	-	0.052	<0.30	0.046	<0.10	<0.040	<0.20	<0.060	<0.30	<0.050	<0.40	0.046	0.050	0.096	0.130
Beryllium	0.010	-	<0.010	<0.080	<0.010	<0.030	<0.010	<0.050	<0.010	<0.070	<0.010	<0.10	<0.010	<0.010	<0.010	<0.030
Bismuth	0.0040	-	<0.0040	<0.030	<0.0040	<0.010	<0.0040	<0.020	<0.0060	<0.030	<0.0050	<0.040	<0.0040	0.0066	<0.0040	<0.010
Boron	0.20	-	<0.20	<2.0	<0.20	<0.60	<0.20	<1.0	<0.30	<1.0	<0.20	<2.0	<0.20	<0.20	<0.20	<0.60
Cadmium	0.0040	-	<0.0040	<0.030	<0.0040	<0.010	<0.0040	<0.020	<0.0060	<0.030	<0.0050	<0.040	<0.0040	0.287	<0.0040	0.0256
Calcium	10	-	304	<80	295	101	248	172	423	83	258	130	358	129	2,590	148
Cesium	0.0040	-	0.0063	<0.030	0.0069	<0.010	0.0061	<0.020	0.0064	<0.030	<0.0050	<0.040	<0.0040	<0.0040	<0.0040	<0.010
Chromium	0.10	-	0.24	<0.80	<0.10	<0.30	<0.10	<0.50	<0.10	<0.70	0.18	<1.0	0.18	<0.10	<0.10	<0.30
Cobalt	0.020	-	<0.020	<0.20	<0.020	<0.060	<0.020	<0.10	<0.030	<0.10	<0.020	<2.0	<0.020	0.075	<0.020	0.223
Copper	0.020	-	0.277	5.46	0.189	4.53	0.220	3.86	0.198	6.09	0.216	9.27	0.185	1.53	0.335	1.74
Iron	4.0	-	5.2	38.3	<4.0	69.2	<4.0	192	<6.0	55.7	<5.0	33.0	4.7	110	<4.0	130
Lead	0.040	0.5	<0.040	<0.30	<0.040	<0.10	<0.040	<0.20	<0.060	<0.30	<0.050	<0.40	<0.040	<0.040	<0.040	<0.10
Lithium	0.20	-	<0.20	<2.0	<0.20	<0.60	<0.20	<1.0	<0.30	<1.0	<0.20	<0.20	<0.20	<0.20	<0.20	<0.60
Magnesium	2.0	-	310	198	307	181	286	319	319	219	281	252	262	158	336	184
Manganese	0.040	-	0.468	1.31	0.258	1.12	0.237	1.82	0.506	1.29	0.491	1.30	0.257	0.557	0.628	0.711
Mercury	0.0010	0.5	0.0353	0.0382	0.0396	0.0284	0.0394	0.0359	0.0453	0.0365	0.0317	0.0349	0.0729	0.0573	0.0397	0.0132
Molybdenum	0.010	-	<0.010	0.157	<0.010	0.162	<0.010	0.294	<0.010	0.195	<0.010	0.163	<0.010	0.126	<0.010	0.098
Nickel	0.10	-	<0.10	<0.80	<0.10	<0.30	<0.10	<0.50	<0.10	<0.70	<0.10	<1.0	<0.10	<0.10	<0.10	<0.30
Phosphorus	4.0	-	2,490	3,270	2,520	3,080	2,370	5,070	2,480	3,620	2,200	3,700	2,240	2,820	3,470	3,210
Potassium	4.0	-	4,320	2,990	4,120	2,910	3,970	4,180	3,990	3,100	3,480	3,090	4,110	2,970	4,290	3,520
Selenium	0.10	-	0.15	0.85	0.14	0.78	0.13	1.29	0.14	0.95	0.12	<1.0	0.16	0.55	0.13	0.51
Silver	0.020	-	<0.020	<0.20	<0.020	<0.060	<0.020	<0.10	<0.030	<0.10	<0.020	<0.20	<0.020	<0.020	<0.020	<0.060
Sodium	2.0	-	171	657	276	1,300	149	1,100	138	908	215	590	355	1,340	307	1,040
Strontium	0.010	-	0.059	<0.080	0.052	<0.030	0.045	-	0.076	<0.070	0.049	<0.10	0.127	0.062	0.738	0.089
Tellurium	0.040	-	<0.040	<0.30	<0.040	<0.10	<0.040	<0.20	<0.060	<0.30	<0.050	<0.40	<0.040	<0.040	<0.040	<0.10
Thallium	0.0060	-	<0.0060	<0.050	<0.0060	<0.020	<0.0060	<0.030	<0.0080	<0.040	<0.0070	0.0061	<0.0060	<0.0060	<0.0060	<0.020
Thorium	0.010	-	<0.010	<0.080	<0.010	<0.030	<0.010	<0.050	<0.010	<0.070	<0.010	<0.10	<0.010	<0.010	<0.010	<0.030
Tin	0.040	-	<0.040	<0.30	<0.040	<0.10	<0.040	<0.20	<0.060	<0.30	<0.050	0.051	<0.040	<0.040	<0.040	<0.10
Titanium	0.020	-	0.043	0.048	0.052	<0.060	0.044	<0.10	0.029	<0.10	0.029	<0.20	0.048	0.061	0.065	0.097
Uranium	0.0020	-	<0.0020	<0.020	<0.0020	<0.0060	<0.0020	<0.010	<0.0030	<0.010	<0.0020	<0.020	<0.0020	0.0034	<0.0020	<0.0060
Vanadium	0.10	-	<0.10	<0.80	<0.10	<0.30	<0.10	<0.50	<0.10	<0.70	<0.10	<1.0	<0.10	<0.10	<0.10	<0.30
Zinc	0.20	-	4.43	33.3	4.14	42.8	4.11	56.9	4.27	48.5	4.14	31.5	2.97	23.5	4.68	28.2
Zirconium	0.60	-	<0.60	<4.0	<0.60	<2.0	<0.60	<3.0	<0.80	<4.0	<0.70	<6.0	<0.60	<0.60	<0.60	<2.0

Notes:

All concentrations are in wet weight mg/kg, except where noted.

DL = detection limit; mm = millimetre; g = gram; % = percent; MWQSOG = Manitoba Water Quality Standards, Objectives and Guidelines (Williamson 2002); - = not applicable; < = less than.

Table - 15 - QA/QC Summary of Water Chemistry

Sample ID	Unit	DL	UC4-F10-WQ2	BLANKS	PRSD
QA/QC Type			Field Blank	Trip Blank	
Conventional Parameters					
Field-Measured Temperature	°C	0.01	-	-	0%
Field-Measured pH	pH units	0.1	-	-	0%
Laboratory-Measured pH	pH units	0.10	6.18	5.88	0%
Conductivity	umhos/cm	0.40	17.4	0.83	0%
Hardness (as CaCO ₃)	mg/L	0.20	0.43	<0.30	1%
True Color	T.C.U.	5.0	<5.0	<5.0	2%
TSS	mg/L	5.0	<5.0	<5.0	-
TDS	mg/L	5.0	<5.0	<5.0	17%
Turbidity	NTU	0.10	<0.10	<0.10	16%
Anions and Nutrients					
Acidity (as CaCO ₃)	mg/L	1.0	1.1	1.5	-
Total Alkalinity (as CaCO ₃)	mg/L	1.0	<1.0	1.9	0%
Bicarbonate	mg/L	2.0	<2.0	2.4	0%
Bromide	mg/L	0.10	<0.10	-	-
Carbonate	mg/L	0.60	<0.60	<0.60	-
Chloride	mg/L	0.50	<0.50	<0.50	-
Fluoride	mg/L	0.10	<0.10	<0.10	-
Hydroxide	mg/L	0.40	<0.40	<0.40	-
Silicate (as SiO ₂)	mg/L	1.0	<1 (6.8)	<1.0	-
Sulfate	mg/L	0.50	<0.50	<0.50	-
Ammonia as N	mg/L	0.050	<0.050	<0.050	-
Nitrate and Nitrite as N	mg/L	0.071	<0.071 (0.551)	<0.071	-
Nitrate-N	mg/L	0.050	<0.050 (0.551)	<0.050	-
Nitrite-N	mg/L	0.050	<0.050	<0.050	-
TKN	mg/L	0.20	<0.20	<0.20	-
TP	mg/L	0.0020	<0.010	<0.010	13%
Organic / Inorganic Carbon					
DOC	mg/L	1.0	1.8	<1.0	4%
TIC	mg/L	1.0	-	-	-
TOC	mg/L	1.0	1.5	1.2	1%
Aggregate Organics					
BOD Carbonaceous	mg/L	1.0	1.1	<1.0	-
Organic Parameters					
Chlorophyll <i>a</i>	ug/L	1.0	<1.0	<1.0	-
Phaeophytin <i>a</i>	ug/L	1.0	<1.0	<1.0	-
Total Metals					
Aluminum	mg/L	0.0050	<0.0050	<0.0050	5%
Antimony	mg/L	0.00020	<0.00020	<0.00020	-
Arsenic	mg/L	0.00020	<0.00020	<0.00020	-
Barium	mg/L	0.00020	0.00024	<0.00020	1%
Beryllium	mg/L	0.00020	<0.00020	<0.00020	-
Bismuth	mg/L	0.00020	<0.00020	<0.00020	-
Boron	mg/L	0.010	<0.010	<0.010	-
Cadmium	mg/L	0.000010	<0.000010	<0.000010	-
Calcium	mg/L	0.10	0.13	<0.10	2%
Cesium	mg/L	0.00010	<0.00010	<0.00010	-
Chromium	mg/L	0.0010	<0.0010	<0.0010	-
Cobalt	mg/L	0.00020	<0.00020	<0.00020	-
Copper	mg/L	0.00020	<0.00020	<0.00020	-
Iron	mg/L	0.020	<0.020	0.036	2%
Lead	mg/L	0.000090	<0.000090	<0.000090	-
Lithium	mg/L	0.0020	<0.0020	<0.0020	17%

Table - 15 - QA/QC Summary of Water Chemistry

Sample ID QA/QC Type	Unit	DL	UC4-F10-WQ2	BLANKS	PRSD
			Field Blank	Trip Blank	
Magnesium	mg/L	0.010	0.022	<0.010	1%
Manganese	mg/L	0.00030	<0.00030	<0.00030	1%
Mercury	mg/L	0.000050	<0.000050	<0.000050	-
Molybdenum	mg/L	0.00020	<0.00020	<0.00020	-
Nickel	mg/L	0.0020	<0.0020	<0.0020	-
Phosphorus	mg/L	0.20	<0.20	<0.20	-
Potassium	mg/L	0.020	0.038	<0.020	1%
Rubidium	mg/L	0.00020	<0.00020	<0.00020	0%
Selenium	mg/L	0.0010	<0.0010	<0.0010	-
Silicon	mg/L	0.050	<0.050	<0.050	18%
Silver	mg/L	0.00010	<0.00010	<0.00010	-
Sodium	mg/L	0.030	<0.03 (0.286)	<0.030	1%
Strontium	mg/L	0.00010	<0.0001 (0.00259)	<0.00010	0%
Tellurium	mg/L	0.00020	<0.00020	<0.00020	-
Thallium	mg/L	0.00010	<0.00010	<0.00010	-
Thorium	mg/L	0.00010	<0.00010	<0.00010	-
Tin	mg/L	0.00020	<0.00020	<0.00020	-
Titanium	mg/L	0.00020	<0.00020	<0.00020	3%
Tungsten	mg/L	0.0010	<0.0010	<0.0010	-
Uranium	mg/L	0.00010	<0.00010	<0.00010	-
Vanadium	mg/L	0.00020	<0.00020	<0.00020	3%
Zinc	mg/L	0.0050	<0.0050	<0.0050	-
Zirconium	mg/L	0.00040	<0.00040	<0.00040	-
Dissolved Metals					
Aluminum	mg/L	0.0020	<0.0020	<0.0020	7%
Antimony	mg/L	0.00020	<0.00020	<0.00020	-
Arsenic	mg/L	0.00020	<0.00020	<0.00020	1%
Barium	mg/L	0.00020	<0.00020	<0.00020	1%
Beryllium	mg/L	0.00020	<0.00020	<0.00020	-
Bismuth	mg/L	0.00020	<0.00020	<0.00020	-
Boron	mg/L	0.010	<0.010	<0.010	-
Cadmium	mg/L	0.000010	<0.000010	0.000019	-
Calcium	mg/L	0.050	0.091	0.108	1%
Cesium	mg/L	0.00010	<0.00010	<0.00010	-
Chromium	mg/L	0.00020	<0.00020	<0.0020	-
Cobalt	mg/L	0.00020	<0.00020	<0.00020	-
Copper	mg/L	0.00020	<0.00020	<0.00020	5%
Iron	mg/L	0.010	<0.010	<0.010	-
Lead	mg/L	0.000090	<0.000090	<0.000090	-
Lithium	mg/L	0.0020	<0.0020	<0.0020	13%
Magnesium	mg/L	0.010	<0.010	<0.010	1%
Manganese	mg/L	0.00020	<0.00020	<0.00010	4%
Mercury	mg/L	0.000050	<0.000050	<0.000050	-
Molybdenum	mg/L	0.00010	<0.00010	<0.00010	-
Nickel	mg/L	0.00020	<0.00020	<0.0010	-
Phosphorus	mg/L	0.10	<0.10	<0.10	-
Potassium	mg/L	0.020	<0.020	<0.020	2%
Rubidium	mg/L	0.00020	<0.00020	<0.00020	2%
Selenium	mg/L	0.0010	<0.0010	<0.0010	-
Silicon	mg/L	0.050	<0.050	<0.050	6%
Silver	mg/L	0.00010	<0.00010	<0.00010	-
Sodium	mg/L	0.020	<0.020	<0.020	1%
Strontium	mg/L	0.00010	0.00012	<0.00010	1%
Tellurium	mg/L	0.00020	<0.00020	<0.00020	-
Thallium	mg/L	0.00010	<0.00010	<0.00010	-

Table - 15 - QA/QC Summary of Water Chemistry

Sample ID	Unit	DL	UC4-F10-WQ2	BLANKS	PRSD
QA/QC Type			Field Blank	Trip Blank	
Thorium	mg/L	0.00010	<0.00010	<0.00010	-
Tin	mg/L	0.00020	<0.00020	<0.00020	-
Titanium	mg/L	0.00020	<0.00020	<0.00020	-
Tungsten	mg/L	0.0010	<0.0010	<0.00020	-
Uranium	mg/L	0.00010	<0.00010	<0.00010	-
Vanadium	mg/L	0.00020	<0.00020	<0.00020	4%
Zinc	mg/L	0.0020	<0.0020	<0.0020	-
Zirconium	mg/L	0.00040	<0.00040	<0.00040	-

Notes:

PRSD values calculated only when all values are greater than 5 times the detection limit; four replicate samples collected at Reed Lake station WQ1 (RDL-F10-WQ1).

Values in parentheses are original analytical values that failed QA/QC checks and were re-analysis was requested.

DL = detection limit; BOD = biochemical oxygen demand; TDS = total dissolved solids; TSS = total suspended solids; TKN = total Kjeldahl nitrogen; TP = total phosphorus; TIC = total inorganic carbon; TOC = total organic carbon; μ hos/cm = micromhos per centimetre; mg/L = milligrams per litre; TCU = true color unit; NTU = Nephelometric Turbidity Units; μ g/L = micrograms per litre; - = not applicable; % = percent; < = less than.

Table - 16 - Summary of Percent Relative Standard Deviation for Sediment Replicates

Waterbody	Reed Lake						Unnamed Creek 2	Unnamed Creek 3	Unnamed Creek 4	Unnamed Lake 1		Unnamed Lake 2		Unnamed Lake 3		Unnamed Lake 4		Unnamed Lake 5	
	Station	RDL-SQ1	RDL-SQ2	RDL-SQ3	RDL-SQ4	RDL-SQ5				RDL-SQ6	UC2-SQ1	UC3-SQ1	UC4-SQ1	UL1-SQ1	UL1-SQ2	UL2-SQ1	UL4-SQ1	UL3-SQ1	UL3-SQ2
Physical Tests																			
% Moisture	15%	4%	1%	2%	3%	2%	3%	11%	1%	1%	0.1%	4%	0.1%	1%	0.4%	0.1%	0.3%	0.2%	0.3%
Anions & Nutrients																			
CaCO ₃ Equivalent	---	---	---	---	---	---	---	---	27%	25%	20%	---	21%	---	---	30%	---	92%	8%
Inorganic Carbon	---	---	---	---	---	---	---	---	---	30%	---	---	23%	---	---	37%	---	102%	8%
Total Carbon by Combustion	48%	8%	1%	4%	3%	2%	3%	17%	7%	5%	1%	15%	2%	6%	2%	5%	1%	13%	1%
Total Organic Carbon	46%	8%	1%	4%	3%	1%	3%	16%	7%	5%	1%	18%	3%	6%	2%	6%	1%	19%	1%
Total Nitrogen by LECO	---	9%	2%	4%	5%	5%	14%	69%	9%	5%	3%	28%	1%	8%	2%	5%	2%	19%	2%
Total Phosphorus	21%	6%	2%	2%	4%	18%	12%	24%	19%	10%	3%	14%	10%	9%	13%	7%	2%	17%	3%
Metals																			
Aluminum	39%	2%	6%	9%	0.4%	6%	32%	30%	63%	15%	19%	24%	3%	52%	17%	18%	3%	16%	15%
Antimony	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Arsenic	39%	7%	5%	5%	3%	8%	8%	31%	21%	29%	21%	87%	10%	8%	27%	27%	12%	40%	16%
Barium	41%	5%	6%	8%	5%	4%	35%	22%	19%	10%	7%	42%	5%	7%	4%	22%	1%	14%	18%
Beryllium	---	---	7%	16%	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Bismuth	---	7%	9%	7%	11%	2%	---	---	---	---	---	---	8%	---	27%	---	---	---	---
Boron	---	3%	6%	9%	6%	12%	29%	62%	50%	6%	8%	29%	6%	12%	9%	6%	6%	6%	12%
Cadmium	---	4%	13%	8%	12%	12%	47%	21%	---	26%	27%	64%	6%	5%	51%	67%	3%	27%	14%
Calcium	38%	4%	4%	4%	2%	9%	26%	19%	8%	29%	19%	61%	3%	3%	8%	42%	9%	93%	21%
Cesium	47%	4%	6%	11%	1%	8%	46%	24%	---	11%	12%	29%	5%	57%	10%	25%	1%	17%	17%
Chromium	---	4%	5%	7%	3%	8%	---	---	---	6%	18%	---	6%	---	---	---	---	---	---
Cobalt	29%	3%	5%	6%	3%	10%	33%	21%	24%	8%	13%	31%	11%	29%	10%	8%	4%	14%	12%
Copper	---	5%	3%	7%	7%	5%	17%	20%	---	12%	7%	16%	6%	25%	42%	34%	7%	18%	14%
Iron	37%	4%	5%	6%	2%	9%	27%	129%	23%	22%	9%	78%	11%	14%	19%	40%	15%	15%	17%
Lead	39%	8%	10%	3%	14%	3%	54%	19%	---	62%	51%	66%	3%	14%	95%	78%	23%	55%	16%
Magnesium	42%	5%	4%	7%	1%	7%	40%	16%	8%	15%	7%	79%	2%	14%	2%	7%	11%	5%	26%
Manganese	45%	9%	8%	3%	2%	8%	86%	128%	17%	13%	8%	112%	18%	9%	13%	29%	3%	63%	16%
Mercury	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Molybdenum	---	15%	7%	13%	6%	6%	32%	323%	59%	6%	29%	36%	10%	12%	21%	26%	14%	5%	13%
Nickel	40%	5%	4%	7%	6%	8%	45%	18%	13%	9%	13%	51%	7%	34%	26%	2%	3%	6%	13%
Phosphorus	---	4%	5%	3%	4%	---	13%	37%	---	11%	7%	15%	15%	9%	14%	8%	7%	8%	17%
Potassium	44%	4%	7%	9%	4%	7%	13%	19%	---	10%	18%	18%	15%	33%	23%	32%	5%	13%	18%
Rubidium	45%	6%	6%	11%	2%	7%	30%	15%	73%	13%	19%	22%	3%	48%	23%	34%	1%	16%	16%
Selenium	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Silver	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Sodium	29%	6%	9%	5%	6%	29%	---	40%	50%	12%	6%	---	4%	32%	12%	18%	4%	7%	19%
Strontium	35%	2%	5%	4%	2%	18%	21%	34%	25%	21%	10%	7%	2%	1%	11%	16%	5%	39%	18%
Tellurium	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Thallium	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Tin	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Titanium	41%	7%	4%	11%	3%	10%	33%	40%	79%	14%	19%	16%	9%	52%	17.6%	14%	6%	15%	22%
Tungsten	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Uranium	18%	1%	5%	11%	1%	8%	18%	55%	98%	13%	7%	6%	6%	33%	23%	21%	4%	18%	5%
Vanadium	42%	3%	6%	8%	2%	8%	11%	26%	---	5%	19%	31%	2%	47%	22%	15%	1%	17%	11%
Zinc	---	6%	5%	6%	8%	8%	43%	---	---	13%	8%	33%	6%	---	36%	45%	8%	16%	18%
Zirconium	39%	11%	9%	9%	3%	7%	53%	44%	55%	15%	33%	74%	20%	30%	16%	22%	14%	14%	18%
Average	37%	6%	5%	7%	4%	8%	28%	46%	33%	15%	14%	38%	8%	21%	19%	23%	6%	26%	13%
SD	0.1	0.03	0.03	0.03	0.03	0.1	0.2	0.6	0.3	0.1	0.1	0.3	0.1	0.2	0.2	0.2	0.1	0.3	0.1
Min	15%	1%	1%	2%	0.4%	1%	3%	11%	1%	1%	0.1%	4%	0.1%	1%	0.4%	0.1%	0.3%	0.2%	0.3%
Max	48%	15%	13%	16%	14%	29%	86%	323%	98%	62%	51%	112%	23%	57%	95%	78%	23%	102%	26%

Notes:

PRSD = Percent Relative Standard Deviation; --- = PRSD not calculated as at least one replicate value was less than five (5) times the analytical detection limit.

Table - 16 - Summary of Percent Relative Standard Deviation for Sediment Replicates (con't)

Waterbody Station	Whitehouse Creek		Grass River		Average	SD	Min	Max
	WHC-SQ1	WHC-SQ2	GRR-SQ1	GRR-SQ2				
Physical Tests								
% Moisture	1%	14%	8%	19%	4%	0.06	0%	19%
Anions & Nutrients								
CaCO ₃ Equivalent	12%	---	---	---	29%	0.3	8%	92%
Inorganic Carbon	15%	---	---	---	36%	0.3	8%	102%
Total Carbon by Combustion	13%	17%	---	79%	12%	0.2	1%	79%
Total Organic Carbon	14%	17%	9%	78%	12%	0.2	1%	78%
Total Nitrogen by LECO	16%	13%	8%	60%	13%	0.2	1%	69%
Total Phosphorus	5%	6%	5%	24%	10%	0.07	2%	24%
Metals								
Aluminum	8%	9%	9%	52%	19%	0.2	0%	63%
Antimony	---	---	---	---	---	---	---	---
Arsenic	22%	12%	7%	49%	21%	0.2	3%	87%
Barium	15%	14%	11%	61%	16%	0.2	1%	61%
Beryllium	---	---	---	---	11%	0.07	7%	16%
Bismuth	---	---	---	---	10%	0.08	2%	27%
Boron	7%	14%	---	---	15%	0.2	3%	62%
Cadmium	10%	---	7%	48%	24%	0.2	3%	67%
Calcium	8%	16%	7%	46%	21%	0.2	2%	93%
Cesium	6%	11%	11%	71%	20%	0.2	1%	71%
Chromium	6%	12%	10%	50%	11%	0.1	3%	50%
Cobalt	2%	9%	6%	51%	15%	0.1	2%	51%
Copper	10%	25%	11%	70%	17%	0.2	3%	70%
Iron	10%	10%	8%	64%	25%	0.3	2%	129%
Lead	5%	14%	8%	53%	31%	0.3	3%	95%
Magnesium	14%	12%	9%	51%	17%	0.2	1%	79%
Manganese	31%	24%	10%	32%	30%	0.4	2%	128%
Mercury	---	---	---	---	---	---	---	---
Molybdenum	16%	30%	2%	35%	33%	0.7	2%	323%
Nickel	7%	16%	10%	61%	18%	0.2	2%	61%
Phosphorus	11%	6%	---	---	11%	0.08	3%	37%
Potassium	11%	12%	13%	77%	19%	0.2	4%	77%
Rubidium	9%	12%	11%	81%	22%	0.2	1%	81%
Selenium	---	---	---	---	---	---	---	---
Silver	---	---	---	---	---	---	---	---
Sodium	4%	12%	7%	44%	17%	0.1	4%	50%
Strontium	1%	14%	5%	53%	15%	0.1	1%	53%
Tellurium	---	---	---	---	---	---	---	---
Thallium	---	---	---	---	---	---	---	---
Tin	---	---	---	---	---	---	---	---
Titanium	3%	14%	10%	51%	21%	0.19	3%	79%
Tungsten	---	---	---	---	---	---	---	---
Uranium	4%	10%	9%	47%	18%	0.22	1%	98%
Vanadium	3%	13%	9%	61%	16%	0.16	1%	61%
Zinc	8%	---	---	---	17%	0.14	5%	45%
Zirconium	16%	40%	6%	74%	27%	0.21	3%	74%
Average	10%	15%	8%	55%	---	---	---	---
SD	0.1	0.1	0.02	0.2	---	---	---	---
Min	1%	6%	2%	19%	---	---	---	---
Max	31%	40%	13%	81%	---	---	---	---

PRSD = Percent Relative Standard Deviation; --- =