

Table - 01: Water Quality of Select Waterbodies in the Lalor Study Area, 2010

XX Applicable Water Quality Guideline.

XX Exceeds Applicable Water Quality Guideline.

Parameter	Unit	CCME Water Quality Guidelines ^a	DL	Lalor Lake				Maw Lake			Varnson Lake			Tern Creek
				LL-U10-WQ1	LL-U10-WQ2	LL-U10-WQ3		ML-U10-WQ1	ML-U10-WQ2	ML-U10-WQ3	VL-U10-WQ1	VL-U10-WQ2	VL-U10-WQ3	TC-U10-WQ2
				8-Jul-10				7-Jul-10			7-Jul-10			8-Jul-10
Conventional Parameters														
Temperature (field)	°C	-	-	19.66	19.90	19.70		20.41	20.54	20.21	20.42	20.34	20.03	20.79
pH (field)	pH units	6.5 - 9.0	-	9.03	9.01	9.00		9.05	9.02	8.81	8.07	7.95	7.98	7.00
pH (lab)	pH units	6.5 - 9.0	0.1	8.70	8.73	8.71	8.45	8.46	8.45	8.29	8.02	7.99	8.00	7.17
Conductivity	µmhos/cm	-	0.4	151	150	151	152	97.9	98.4	97.8	96.6	95.4	95.7	157
Acidity (as CaCO ₃)	mg/L	-	1	<1.0	<1.0	<1.0	<1.0	1.6	<1.0	<1.0	<1.0	<1.0	<1.0	2.2
Total Alkalinity (as CaCO ₃)	mg/L	-	1	81.2	80.9	80.8	80.8	49.2	49.3	49.1	48.7	48	48.1	71.4
Total Hardness (as CaCO ₃)	mg/L	-	0.3	76.1	73.7	72	75.6	49.3	50.1	50.1	51.6	49.1	49.4	82.8
Bicarbonate	mg/L	-	2	88.2	85.8	87.3	94.2	56.4	56.7	59.9	59.4	58.5	58.7	87.2
Carbonate	mg/L	-	0.6	5.37	6.35	5.56	2.16	1.77	1.7	<0.60	<0.60	<0.60	<0.60	<0.60
Hydroxide	mg/L	-	0.4	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
BOD Carbonaceous	mg/L	-	1	1.1	1.4	<1.0	1.0	1.2	1.3	1.4	<1.0	<1.0	<1.0	1.3
True Color	T.C.U.	-	5	15	15	15	15	30	35	35	40	35	40	150
Turbidity	NTU	-	0.1	1.25	1.41	1.53	1.34	1.35	1.28	1.31	0.86	0.92	0.77	4.91
TDS	mg/L	-	5	104	108	124	100	66	64	68	37.5	30	90	140
TSS	mg/L	-	5	<5.0	<5.0	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5	34
Nutrients														
Ammonia (dissolved)	mg/L	0.067 - 4.82	0.05	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate+Nitrite-N (dissolved)	mg/L	-	0.05	<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	-	0.2	1.13	1.08	1.11	1.16	0.85	0.92	0.93	0.45	0.48	0.42	0.96
TP	mg/L	-	0.003	0.013	0.0131	<0.010	0.0122	0.0106	0.0129	0.0139	0.0149	0.0123	<0.010	0.0124
TIC	mg/L	-	1	12.1	12.2	16.8	<1.0	7.3	7	6.8	6.9	8.4	6.7	9.3
TOC	mg/L	-	1	19.2	18.9	16.8	17.5	19.8	20.3	20.8	16.6	15.9	16.0	26.9
Biological Parameters														
Chlorophyll a	ug/L	-	1	3.1	2.9	2.7	2.3	2.7	2.5	3.4	1.7	2.7	2.3	3.6
Phaeophytin a	ug/L	-	1	<1.0	1.0	1.7	<1.0	1.7	1.5	1.5	1.8	1.3	1.5	4.5
Total Metals & Minerals														
Aluminum	mg/L	0.1	0.005	0.0123	0.0126	0.0124	0.0126	0.0132	0.0126	0.0160	0.0063	0.0067	0.0085	0.2780
Antimony	mg/L	-	0.0002	<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	0.0002	0.00061	0.00065	0.00062	0.00064	0.00065	0.00061	0.00063	0.00041	0.00040	0.00040	0.00111
Barium	mg/L	-	0.0002	0.00523	0.005	0.00525	0.00498	0.00579	0.00569	0.00602	0.00481	0.00481	0.00508	0.0154
Beryllium	mg/L	-	0.0002	<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	-	0.0002	<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	1.5	0.01	0.013	0.014	0.014	0.014	0.011	<0.010	<0.010	<0.010	<0.010	<0.010	0.011
Bromide	mg/L	-	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	mg/L	0.000018 - 0.000044	0.00001	<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	-	0.1	20.3	21	20.3	21.4	13.8	14	13.8	14.9	14.1	14.3	22
Cesium	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
Chromium	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
Cobalt	mg/L	-	0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00032
Copper	mg/L	0.001 - 0.003	0.0002	0.00035	0.00066	0.00038	0.00036	0.00060	0.00059	0.00069	<0.00020	0.00023	0.00024	0.00069
Iron	mg/L	0.3	0.02	0.112	0.109	0.112	0.111	0.073	0.071	0.082	0.070	0.068	0.074	1.57
Lead	mg/L	0.001 - 0.004	0.00009	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	<0.000090	0.000145
Lithium	mg/L	-	0.002	0.003	0.0033	0.0033	0.0026	<0.0020	<0.0020	<0.0020	0.0031	<0.0020	0.0025	0.0031
Magnesium	mg/L	-	0.01	7.74	7.8	7.7	8.22	4.71	4.64	4.66	4.67	4.63	4.71	6.75
Manganese	mg/L	-	0.0003	0.0550	0.0549	0.0509	0.0517	0.0412	0.0387	0.0368	0.0232	0.0236	0.0236	0.123
Mercury	mg/L	0.000026	0.00005	<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	0.0002	<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	0.055 - 0.123	0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020

Table - 01: Water Quality of Select Waterbodies in the Lalor Study Area, 2010 (con't)

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Parameter	Unit	CCME Water Quality Guidelines ^a	DL	Lalor Lake			Maw Lake			Varnson Lake			Tern Creek	
				LL-U10-WQ1	LL-U10-WQ2	LL-U10-WQ3	ML-U10-WQ1	ML-U10-WQ2	ML-U10-WQ3	VL-U10-WQ1	VL-U10-WQ2	VL-U10-WQ3	TC-U10-WQ2	
				8-Jul-10			7-Jul-10			7-Jul-10			8-Jul-10	
Total Metals & Minerals (con't)														
Phosphorus	mg/L	-	0.2	<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	-	0.02	2	2.01	1.97	2.09	1.11	1.14	1.09	0.816	0.812	0.784	0.839
Rubidium	mg/L	-	0.0002	0.00189	0.00186	0.00185	0.00192	0.00104	0.00103	0.00099	0.00077	0.00075	0.00078	0.00108
Selenium	mg/L	0.001	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silicate	mg/L	-	1.0	4.3	<1.0	<1.0	<1.0	1.7	1.4	1.3	1.2	1.4	1.3	7.1
Silicon	mg/L	-	0.05	0.129	0.148	0.133	0.172	1.1	0.52	0.865	0.957	0.933	0.531	5.33
Silver	mg/L	0.0001	0.0001	<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	-	0.03	2.24	2.29	2.23	2.42	1.63	1.59	1.62	1.73	1.69	1.76	4.64
Strontium	mg/L	-	0.0001	0.0284	0.028	0.0282	0.0292	0.0224	0.0229	0.0215	0.0237	0.023	0.0239	0.0446
Tellurium	mg/L	-	0.0002	<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	0.0001	<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	-	0.0001	<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	-	0.0002	<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	-	0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00034	<0.00020	<0.00020	<0.00020	0.0129
Tungsten	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
Uranium	mg/L	0.015	0.0001	<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	-	0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00068
Zinc	mg/L	0.03	0.005	<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	-	0.0004	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040
Dissolved Metals & Minerals														
Aluminum	mg/L	-	0.002	0.0098	0.0070	0.0091	0.0081	0.0073	0.0069	0.0070	0.0023	0.0023	0.0020	0.0137
Antimony	mg/L	-	0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00047	<0.00020	<0.00020	<0.00020
Arsenic	mg/L	-	0.0002	0.00060	0.00061	0.00054	0.00061	0.00062	0.00060	0.00060	0.00045	0.00039	0.00037	0.00087
Barium	mg/L	-	0.0002	0.00427	0.00378	0.00389	0.00442	0.00473	0.00472	0.00554	0.00452	0.00449	0.00453	0.0105
Beryllium	mg/L	-	0.0002	<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	-	0.0002	<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	-	0.01	<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	-	0.00001	<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	-	0.05	19.1	19.2	18.4	19.7	12.5	12.4	12.8	11.7	11.6	11.8	18.9
Cesium	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
Chloride	mg/L	-	9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	9.1
Chromium	mg/L	-	0.0002	<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	-	0.0002	<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	-	0.0002	0.00023	<0.00020	0.00026	0.00034	0.00053	0.00057	0.00054	<0.00020	<0.00020	0.00023	0.00035
Iron	mg/L	-	0.01	0.019	0.015	0.026	0.015	<0.010	<0.010	<0.010	<0.010	0.010	<0.010	0.480
Lead	mg/L	-	0.00009	<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	-	0.002	0.0028	<0.0020	0.0024	<0.0020	0.0037	<0.0020	<0.0020	0.0027	0.0039	0.0040	0.0037
Magnesium	mg/L	-	0.01	6.88	6.75	6.81	6.84	4.62	4.51	4.73	4.46	4.41	4.45	6.50
Manganese	mg/L	-	0.0002	0.00113	0.00103	0.00062	0.00184	<0.00020	<0.00020	<0.00020	0.00057	<0.00020	<0.00020	0.00097
Mercury	mg/L	-	0.00005	<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	-	0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010	0.00014	<0.00010	<0.00010	<0.00010
Nickel	mg/L	-	0.0002	0.00065	0.00058	0.00063	0.00078	0.00051	0.00050	0.00054	0.00045	0.00039	0.00052	0.00085
Phosphorus	mg/L	-	0.1	<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	-	0.02	1.82	1.77	1.79	1.89	1.12	1.09	1.10	0.734	0.745	0.733	0.744
Rubidium	mg/L	-	0.0002	0.00153	0.00149	0.00146	0.00151	0.00099	0.00099	0.00097	0.00078	0.00074	0.00071	0.00057
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
Silicon	mg/L	-	0.05	0.183	0.187	0.194	0.201	0.933	0.532	0.841	0.514	0.531	0.472	2.94
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
Sodium	mg/L	-	0.02	2.00	1.96	2.04	2.06	1.56	1.54	1.56	1.69	1.66	1.64	4.26

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Parameter	Unit	CCME Water Quality Guidelines ^a	DL	Lalor Lake			Maw Lake			Varnson Lake			Tern Creek	
				LL-U10-WQ1	LL-U10-WQ2	LL-U10-WQ3	ML-U10-WQ1	ML-U10-WQ2	ML-U10-WQ3	VL-U10-WQ1	VL-U10-WQ2	VL-U10-WQ3	TC-U10-WQ2	
				8-Jul-10			7-Jul-10			7-Jul-10			8-Jul-10	
Dissolved Metals & Minerals (con't)														
Strontium	mg/L	-	0.0001	0.0248	0.0234	0.0231	0.0235	0.0211	0.0222	0.0212	0.0231	0.0230	0.0233	0.0404
Sulphate	mg/L	-	9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	<9.0	10.8
Tellurium	mg/L	-	0.0002	<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	-	0.0001	<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	-	0.0001	<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	-	0.0002	<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	-	0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	0.00050
Tungsten	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
Uranium	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
Vanadium	mg/L	-	0.0002	0.00034	0.00035	0.00021	<0.00020	0.00025	0.00024	0.00020	0.00024	0.00023	0.00021	0.00031
Zinc	mg/L	-	0.002	<0.0020	<0.0020	0.0034	0.0052	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
Zirconium	mg/L	-	0.0004	<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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XX Exceeds Applicable Water Quality Guideline.

Parameter	Unit	CCME Water Quality Guidelines ^a	DL	Tern Ditch	Tern Lake	Tern Ditch Pond	Trip Blank	Field Blank
				TD-U10-WQ1	TL-U10-WQ1	TDP-U10-WQ1	TB-U10-WQ1	FB-U10-WQ1
				8-Jul-10	8-Jul-10	8-Jul-10	-	-
Conventional Parameters								
Temperature (field)	°C	-	-	23.57	19.50	20.87	-	-
pH (field)	pH units	6.5 - 9.0	-	7.37	8.37	7.89	-	-
pH (lab)	pH units	6.5 - 9.0	0.1	7.53	8.00	7.79	5.83	6.13
Conductivity	µmhos/cm	-	0.4	227	145	147	0.7	1.28
Acidity (as CaCO ₃)	mg/L	-	1	1.4	<1.0	<1.0	<1.0	<1.0
Total Alkalinity (as CaCO ₃)	mg/L	-	1	113	57.6	54.5	1.9	2.3
Total Hardness (as CaCO ₃)	mg/L	-	0.3	139	79	71.6	0.26	0.61
Bicarbonate	mg/L	-	2	137	70.3	66.5	2.3	2.8
Carbonate	mg/L	-	0.6	<0.60	<0.60	<0.60	<0.60	<0.60
Hydroxide	mg/L	-	0.4	<0.40	<0.40	<0.40	<0.40	<0.40
BOD Carbonaceous	mg/L	-	1	1.7	1.7	2.8	<1.0	<1.0
True Color	T.C.U.	-	5	200	70	100	<5.0	<5.0
Turbidity	NTU	-	0.1	4.46	1.30	0.89	<0.10	<0.10
TDS	mg/L	-	5	204	122	142	<5.0	<5.0
TSS	mg/L	-	5	6	<5.0	8	<5.0	<5.0
Nutrients								
Ammonia (dissolved)	mg/L	0.067 - 4.82	0.05	0.149	<0.050	<0.050	<0.050	<0.050
Nitrate+Nitrite-N (dissolved)	mg/L	-	0.05	<0.050	<0.050	<0.050	<0.050	<0.050
TKN	mg/L	-	0.2	1.43	0.97	1.58	<0.20	<0.20
TP	mg/L	-	0.003	0.0357	0.0163	0.0168	<0.010	<0.010
TIC	mg/L	-	1	2.3	4.7	4.5	<1.0	<1.0
TOC	mg/L	-	1	34.9	21.4	25.9	<1.0	<1.0
Biological Parameters								
Chlorophyll a	ug/L	-	1	5.5	4.4	3.8	<1.0	<1.0
Phaeophytin a	ug/L	-	1	4.0	1.4	2.2	<1.0	<1.0
Total Metals & Minerals (con't)								
Aluminum	mg/L	0.1	0.005	0.3950	0.0139	0.0099	<0.0050	<0.0050
Antimony	mg/L	-	0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Arsenic	mg/L	0.005	0.0002	0.0087	0.00342	0.00119	<0.00020	<0.00020
Barium	mg/L	-	0.0002	0.033	0.012	0.0171	<0.00020	<0.00020
Beryllium	mg/L	-	0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Bismuth	mg/L	-	0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron	mg/L	1.5	0.01	0.08	0.012	0.01	<0.010	<0.010
Bromide	mg/L	-	0.1	<0.10	<0.10	<0.10	<0.10	<0.10
Cadmium	mg/L	0.000018 - 0.000044	0.00001	0.000014	<0.000010	<0.000010	<0.000010	<0.000010
Calcium	mg/L	-	0.1	40.2	19.1	19.3	<0.10	0.15
Cesium	mg/L	-	0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Chromium	mg/L	-	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Cobalt	mg/L	-	0.0002	0.00026	<0.00020	<0.00020	<0.00020	<0.00020
Copper	mg/L	0.001 - 0.003	0.0002	0.00112	0.0007	0.00058	<0.00020	<0.00020
Iron	mg/L	0.3	0.02	1.11	0.158	0.237	<0.020	<0.020
Lead	mg/L	0.001 - 0.004	0.00009	0.000283	<0.000090	<0.000090	<0.000090	<0.000090
Lithium	mg/L	-	0.002	0.0057	0.004	0.0031	<0.0020	<0.0020
Magnesium	mg/L	-	0.01	9.29	7.58	5.71	<0.010	<0.010
Manganese	mg/L	-	0.0003	0.122	0.0348	0.0216	<0.00030	<0.00030
Mercury	mg/L	0.000026	0.00005	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Molybdenum	mg/L	0.073	0.0002	0.00028	<0.00020	<0.00020	<0.00020	<0.00020
Nickel	mg/L	0.055 - 0.123	0.002	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020

Table - 01: Water Quality of Select Waterbodies in the Lalor Study Area, 2010 (con't)

XX Applicable Water Quality Guideline.

XX Exceeds Applicable Water Quality Guideline.

Parameter	Unit	CCME Water Quality Guidelines ^a	DL	Tern Ditch	Tern Lake	Tern Ditch Pond	Trip Blank	Field Blank
				TD-U10-WQ1	TL-U10-WQ1	TDP-U10-WQ1	TB-U10-WQ1	FB-U10-WQ1
				8-Jul-10	8-Jul-10	8-Jul-10	-	-
Total Metals & Minerals (con't)								
Phosphorus	mg/L	-	0.2	<0.20	<0.20	<0.20	<0.20	<0.20
Potassium	mg/L	-	0.02	1.34	1.64	2.38	<0.020	<0.020
Rubidium	mg/L	-	0.0002	0.00195	0.00168	0.00205	<0.00020	<0.00020
Selenium	mg/L	0.001	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silicate	mg/L	-	1.0	6.6	2.4	4.2	<1.0	<1.0
Silicon	mg/L	-	0.05	3.88	1.65	2.45	<0.050	<0.050
Silver	mg/L	0.0001	0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium	mg/L	-	0.03	4.42	2.83	4.93	<0.030	<0.030
Strontium	mg/L	-	0.0001	0.0858	0.0375	0.0379	<0.00010	0.0001
Tellurium	mg/L	-	0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Thallium	mg/L	0.0008	0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Thorium	mg/L	-	0.0001	0.00012	<0.00010	<0.00010	<0.00010	<0.00010
Tin	mg/L	-	0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Titanium	mg/L	-	0.0002	0.017	0.00043	0.00038	<0.00020	<0.00020
Tungsten	mg/L	-	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Uranium	mg/L	0.015	0.0001	0.00015	<0.00010	<0.00010	<0.00010	<0.00010
Vanadium	mg/L	-	0.0002	0.00134	0.00032	<0.00020	<0.00020	<0.00020
Zinc	mg/L	0.03	0.005	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Zirconium	mg/L	-	0.0004	0.00051	<0.00040	<0.00040	<0.00040	<0.00040
Dissolved Metals & Minerals								
Aluminum	mg/L	-	0.002	0.0228	0.0041	0.0031	<0.0020	<0.0020
Antimony	mg/L	-	0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Arsenic	mg/L	-	0.0002	0.00609	0.00304	0.00110	<0.00020	<0.00020
Barium	mg/L	-	0.0002	0.0256	0.0106	0.0150	<0.00020	<0.00020
Beryllium	mg/L	-	0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Bismuth	mg/L	-	0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Boron	mg/L	-	0.01	0.070	<0.010	<0.010	<0.010	<0.010
Cadmium	mg/L	-	0.00001	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010
Calcium	mg/L	-	0.05	32.0	16.3	16.6	0.117	0.257
Cesium	mg/L	-	0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Chloride	mg/L	-	9.0	<9.0	10.4	14.1	<9.0	<9.0
Chromium	mg/L	-	0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Cobalt	mg/L	-	0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Copper	mg/L	-	0.0002	0.00131	<0.00020	0.00022	0.00134	0.00130
Iron	mg/L	-	0.01	0.384	0.027	0.065	<0.010	<0.010
Lead	mg/L	-	0.00009	0.000104	<0.000090	<0.000090	<0.000090	<0.000090
Lithium	mg/L	-	0.002	0.0058	0.0028	0.0047	<0.0020	<0.0020
Magnesium	mg/L	-	0.01	8.48	6.90	5.50	<0.010	<0.010
Manganese	mg/L	-	0.0002	0.00144	<0.00020	0.00047	<0.00020	<0.00020
Mercury	mg/L	-	0.00005	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Molybdenum	mg/L	-	0.0001	0.00023	<0.00010	0.00017	<0.00010	<0.00010
Nickel	mg/L	-	0.0002	0.00126	0.00075	0.00069	<0.00020	<0.00020
Phosphorus	mg/L	-	0.1	<0.10	<0.10	<0.10	<0.10	<0.10
Potassium	mg/L	-	0.02	1.11	1.42	2.18	<0.020	<0.020
Rubidium	mg/L	-	0.0002	0.00121	0.00148	0.00193	<0.00020	<0.00020
Selenium	mg/L	-	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Silicon	mg/L	-	0.05	2.37	1.39	1.98	<0.050	<0.050
Silver	mg/L	-	0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Sodium	mg/L	-	0.02	3.75	2.50	4.52	<0.020	<0.020

Table - 01: Water Quality of Select Waterbodies in the Lalor Study Area, 2010 (con't)

XX Applicable Water Quality Guideline.

XX Exceeds Applicable Water Quality Guideline.

Parameter	Unit	CCME Water Quality Guidelines ^a	DL	Tern Ditch	Tern Lake	Tern Ditch Pond	Trip Blank	Field Blank
				TD-U10-WQ1	TL-U10-WQ1	TDP-U10-WQ1	TB-U10-WQ1	FB-U10-WQ1
				8-Jul-10	8-Jul-10	8-Jul-10	-	-
Dissolved Metals & Minerals (con't)								
Strontium	mg/L	-	0.0001	0.0775	0.0344	0.0362	<0.00010	0.00015
Sulphate	mg/L	-	9.0	14.3	<9.0	<9.0	<9.0	<9.0
Tellurium	mg/L	-	0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Thallium	mg/L	-	0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Thorium	mg/L	-	0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Tin	mg/L	-	0.0002	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
Titanium	mg/L	-	0.0002	0.00106	0.00027	<0.00020	<0.00020	<0.00020
Tungsten	mg/L	-	0.001	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
Uranium	mg/L	-	0.0001	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
Vanadium	mg/L	-	0.0002	0.00085	0.00040	<0.00020	<0.00020	<0.00020
Zinc	mg/L	-	0.002	<0.0020	<0.0020	0.0091	<0.0020	<0.0020
Zirconium	mg/L	-	0.0004	<0.00040	<0.00040	<0.00040	<0.00040	<0.00040

Notes:

^a Canadian Council of Ministers of Environment (CCME) Guidelines for Canadian Water Quality Guidelines for the Protection of Aquatic Life (CCME, 2011).

DL = detection limit; - = not applicable; 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 mhos/cm = micromhos per centimetre; mg/L = milligrams per litre; TCU = true color unit; NTU = Nephelometric Turbidity Units; μ g/L = micrograms per litre.

Table - 02: Limnological Parameters Measured in the Lalor Study Area, 2010

Waterbody	Station	Date	Time	UTM (NAD 83, Zone 14U)		Sampling Type	Max Depth (m)	Secchi Depth (m)	Limnology								
				Northing	Easting				Measurement Depth (m)	Water Temp. (°C)	pH	ORP (mV)	Sp.Cond. (µS/cm)	Turbidity (NTU)	DO (mg/L)	DO (%)	TDS (g/L)
Lalor Lake	LL-1	8-Jul-10	10:14	6081913	425863	WQ/SQ	1.75	bottom	0.0	19.66	9.03	148	148	-	12.00	134.9	0.096
									0.5	19.65	8.94	152	148	-	11.80	132.2	0.096
									1.0	19.65	8.91	155	148	-	11.74	131.7	0.096
									1.5	19.59	9.00	151	149	-	11.48	128.6	0.097
	LL-2	8-Jul-10	10:46	6081521	425739	WQ/SQ/ZP/PP	1.75	bottom	0.0	19.90	9.01	145	145	-	12.85	145.1	0.095
									0.5	19.90	9.03	145	145	-	12.73	143.7	0.095
									1.0	19.91	9.01	147	146	-	12.39	139.9	0.095
	LL-3	8-Jul-10	10:14	6081029	425727	WQ/SQ	1.25	bottom	0.0	19.70	9.00	149	145	-	12.73	143.0	0.094
									0.5	19.68	9.01	149	145	-	11.90	133.7	0.094
1.0									19.68	8.77	164	145	-	12.29	138.9	0.094	
Maw Lake	ML-1	7-Jul-10	13:20	6082938	425537	WQ/SQ	1.0	bottom	0.0	20.41	9.05	152	96	-	8.08	-	0.062
									0.5	20.43	9.06	152	96	-	7.98	-	0.063
									0.8	20.46	8.98	158	97	-	8.01	-	0.063
	ML-2	7-Jul-10	13:37	6082802	425673	WQ/SQ/ZP/PP	1.5	bottom	0.0	20.54	9.02	154	96	-	8.30	94.8	0.062
									0.5	20.57	9.03	155	96	-	8.18	93.3	0.062
									1.0	20.54	8.97	158	96	-	8.15	92.7	0.062
ML-3	7-Jul-10	14:11	6082570	425727	WQ/SQ	<1.0	bottom	0.0	20.21	8.81	155	94	-	9.51	107.6	0.061	
Varnson Lake	VL-1	7-Jul-10	10:31	6088098	426309	WQ/SQ	1.75	-	0.0	20.42	8.07	210	94	-	8.19	-	0.061
									0.5	20.39	7.99	216	94	-	8.09	-	0.061
									1.0	20.38	7.86	224	94	-	8.18	-	0.061
									1.5	20.38	7.99	218	94	-	8.11	-	0.061
	VL-2	7-Jul-10	11:06	6087790	425972	WQ/SQ/ZP/PP	-	2.13	0.0	20.34	7.95	217	93	-	8.54	-	0.061
									0.5	20.34	7.89	221	93	-	8.40	-	0.061
									1.0	20.32	7.77	228	93	-	8.36	-	0.061
									1.5	20.34	7.78	226	93	-	8.29	-	0.061
	VL-3	7-Jul-10	11:06	6086974	425630	WQ/SQ	-	bottom	0.0	20.03	7.98	215	93	-	8.25	-	0.060
									0.5	20.03	7.90	220	93	-	8.18	-	0.060
									1.0	20.02	7.76	229	93	-	8.04	-	0.061
									1.5	20.03	7.75	228	93	-	8.03	-	0.060
Tern Creek	TC-2*	8-Jul-10	14:23	6081530	428844	WQ/SQ	0.5	-	0.0	20.79	7.00	65	157	-	9.49	108.6	0.102
Tern Ditch	TD-1	8-Jul-10	13:46	6079873	430033	WQ/SQ	0.25	-	0.0	23.57	7.37	175	220	-	9.61	114.2	0.147
Tern Lake	TL-1	8-Jul-10	12:56	6081866	430340	WQ/SQ/ZP/PP	1.25	bottom	0.0	19.50	8.37	152	141	-	12.70	142.2	0.092
									0.5	19.52	8.32	158	141	-	12.18	136.7	0.092
									1.0	19.52	8.27	161	141	-	12.20	136.8	0.091
Tern Ditch Pond	TDP-1	8-Jul-10	16:43	6080452	427613	WQ/SQ/ZP/PP	1.0	bottom	0.0	20.87	7.89	170	138	-	11.86	136.4	0.090
									0.5	20.87	7.81	173	138	-	11.76	135.2	0.090
	MT1	8-Jul-10	17:19	6080363	427514	FE	0.4	bottom	0.0	21.50	7.64	164	145	-	12.36	144.3	0.095
	MT2	8-Jul-10	17:25	6080436	427504	FE	0.6	bottom	0.0	21.13	7.82	177	143	-	11.71	135.0	0.093
	MT3	8-Jul-10	17:33	6080522	427559	FE	0.5	bottom	0.0	21.19	7.71	191	142	-	11.38	130.9	0.092
	MT4	8-Jul-10	17:37	6080517	427715	FE	0.6	bottom	0.0	20.90	7.80	193	144	-	11.33	130.4	0.094
	MT5	8-Jul-10	17:44	6080419	427727	FE	0.6	bottom	0.0	20.99	7.85	195	144	-	11.80	135.5	0.093
	MT6	8-Jul-10	17:50	6080450	427677	FE	0.8	bottom	0.0	20.92	7.83	197	144	-	12.35	141.9	0.094
	GN1	9-Jul-10	12:03	6080485	427722	FE	0.75	bottom	0.0	20.88	7.55	152	141	-	12.23	140.6	0.092
	GN2	9-Jul-10	13:04	6080601	427711	FE	1.25	bottom	0.0	22.00	7.59	151	144	-	12.73	149.1	0.093
	SN1	10-Jul-10	11:49	6080384	427574	FE	0.5	bottom	0.0	21.45	7.65	124	145	13.5	13.55	154.4	0.094
	SN4	10-Jul-10	12:24	6080527	427725	FE	0.5	bottom	0.0	21.71	7.67	169	146	8.31	15.10	176.2	0.095
SN5**	10-Jul-10	12:40	6080591	427647	FE	1.0	bottom	0.0	22.31	7.60	145	143	14.5	12.74	153.0	0.793	

Notes:

* = station moved from previous year's location due to low water levels.

** = water disturbed prior to measurement.

WQ = water quality; SQ = sediment quality; ZP = zooplankton; PP = phytoplankton; FE = fishing effort; m = metres; Water Temp. °C = water temperature in degrees Celsius; Sp.Cond. µS/cm = specific conductance in 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; - = not applicable.

Table - 03: Sediment Quality of Select Waterbodies in the Lalor Study Area, 2010

Waterbody Station ID Date Sampled	CSQG ^a	MSQG ^b		DL	Lalor Lake			Maw Lake			Varnson Lake			Tern Creek	Tern Ditch	Tern Lake	Tern Ditch Pond	
		ISQG	PEL		LL-U10-SQ1	LL-U10-SQ2	LL-U10-SQ3	ML-U10-SQ1	ML-U10-SQ2	ML-U10-SQ3	VL-U10-SQ1	VL-U10-SQ2	VL-U10-SQ3	TC-U10-SQ1	TD-U10-SQ1	TL-U10-SQ1	TDP-U10-SQ1	
					8-Jul-10	8-Jul-10	8-Jul-10	7-Jul-10	7-Jul-10	7-Jul-10	7-Jul-10	7-Jul-10	7-Jul-10	7-Jul-10	8-Jul-10	8-Jul-10	8-Jul-10	8-Jul-10
Physical Parameters																		
Moisture (%)	-	-	-	0.1	97.2	97.4	97.2	97.3	97.5	97.4	81.8	97	96.4	93.9	73.8	83.1	93.6	87.1
Sand (2.0mm - 0.05mm) (%)	-	-	-	1	6.8	2.5	1.5	6.6	7.3	4.9	29.2	3	3.9	2.7	53.4	40.0	1.5	2.4
Silt (0.05mm - 2µm) (%)	-	-	-	1	30.8	17.4	25	40.4	46.1	45.9	50.7	57.4	54.5	47.7	39.7	37.8	58.0	56.5
Clay (<2µm) (%)	-	-	-	1	62.3	80.2	73.5	52.9	46.7	49.3	20.1	39.6	41.6	49.6	6.9	22.2	40.6	41.2
Texture	-	-	-	-	Clay	Clay	Clay	Silty clay	Silty clay	Silty clay	Silt loam	Silty clay loam	Silty clay	Silty clay	Sandy loam	Loam	Silt Clay loam / Silty clay	Silty clay
CaCO ₃ Equivalent (%)	-	-	-	0.8	1	1.17	2	1.59	1.32	1.7	14.5	0.89	0.84	1.78	1.02	1.12	0.98	1.19
Nutrients																		
Inorganic Carbon (%)	-	-	-	0.1	<0.10	<0.10	0.16	0.13	0.12	0.15	1.73	<0.10	<0.10	0.16	<0.10	<0.10	<0.10	<0.10
Total Carbon by combustion (%)	-	-	-	0.1	30.0	32.5	31.3	30.5	32.1	31.6	11	31.1	30.1	30.1	18.1	24.4	25.0	32.6
Total Organic Carbon (%)	-	-	-	0.1	30.0	32.5	31.2	30.4	32	31.5	9.27	31.1	30.1	30	18.1	24.4	25.0	32.6
Total Nitrogen (%)	-	-	-	0.02	2.35	2.98	2.75	2.59	3.06	2.93	0.484	2.87	2.75	2.89	1.14	1.04	2.3	2.57
Total Phosphorus	-	-	-	100	570	660	510	570	520	450	240	840	740	1,080	660	590	850	470
Metals and Minerals																		
Aluminum	-	-	-	5	8,050	6,290	7,950	6,900	3,520	4,100	3,260	7,310	8,160	5,410	12,000	15,400	9,390	3,030
Antimony	-	-	-	0.1	0.1	0.1	0.1	0.4	0.3	0.4	<0.1	0.2	0.1	<0.1	<0.1	0.2	0.3	<0.1
Arsenic	12	5.9	17.0	0.1	2.7	2.4	2.4	3.1	6.8	7.7	1.7	4.3	3.4	2.9	4.4	24.8	29.7	5.3
Barium	500	-	-	0.5	92.9	78.0	94.6	125	95.3	92.3	56.1	95.8	108	88.2	102	156	92.8	56.4
Beryllium	-	-	-	0.1	0.4	0.3	0.3	0.3	<0.1	<0.1	<0.1	0.2	0.2	0.1	0.4	0.5	0.3	<0.1
Bismuth	-	-	-	0.02	0.06	0.05	0.06	0.05	0.19	0.23	<0.02	0.12	0.07	0.08	0.10	0.11	0.12	0.08
Boron	-	-	-	1	15	16	15	15	14	13	5	14	13	10	8	36	10	8
Cadmium	10	0.6	3.5	0.02	0.36	0.29	0.32	0.39	0.85	0.98	0.24	0.67	0.4	0.48	0.26	0.41	0.67	0.56
Calcium	-	-	-	100	8,500	8,900	9,100	30,100	11,300	11,900	8,400	16,300	16,000	12,900	12,800	23,700	15,300	10,500
Cesium	-	-	-	0.02	0.58	0.51	0.76	0.69	0.28	0.32	0.26	0.69	0.75	0.46	0.95	1.36	0.9	0.26
Chromium	64	37.3	90.0	1	36	28	32	27	8	9	3	20	24	15	32	45	26	5
Cobalt	-	-	-	0.02	6.87	6.60	7.78	6.76	4.42	5.31	4.57	8.02	9.06	6.45	8.28	10.5	9.43	4.3
Copper	63	35.7	197	1	46	44	46	42	62	54	57	27	26	22	25	39	34	17
Iron	-	-	-	20	20,600	16,100	13,000	12,200	9,260	9,700	10,600	11,900	14,600	8,310	15,500	24,300	14,400	6,750
Lead	140	35.0	91.3	0.2	5.1	3.5	4.3	35.3	26.3	30.4	4.0	14.9	8.1	8.0	6.2	10.4	18.3	9.5
Magnesium	-	-	-	10	3,210	2,770	3,500	11,600	2,160	2,430	2,410	3,840	4,180	2,910	5,020	8,920	4,980	1,290
Manganese	-	-	-	0.5	293	284	245	226	194	270	293	321	388	557	332	400	257	251
Mercury	6.6	0.17	0.486	0.005	0.0399	0.041	0.0307	0.126	0.114	0.125	0.0518	0.119	0.0864	0.0838	0.0509	0.0508	0.120	0.0698
Molybdenum	-	-	-	0.02	2.73	2.02	2.08	1.64	1.17	1.2	0.19	1.17	1.47	0.99	0.68	1.05	0.98	0.76
Nickel	50	-	-	0.5	29.2	25.9	28.5	22.8	14.9	15.7	3.7	21.2	23.8	15.7	20.3	30.8	24.6	7.5
Phosphorus	-	-	-	100	500	600	500	500	600	600	300	900	700	1200	700	500	700	400
Potassium	-	-	-	20	1,220	920	1,260	1,160	550	650	580	1,520	1,690	1,450	1,840	3,790	1,950	320
Rubidium	-	-	-	0.02	11.3	8.12	13.0	11.2	3.34	4.02	2.73	11.8	13.4	8.4	19.1	33.8	17.3	2.14
Selenium	1	-	-	0.5	1.5	1.4	1.4	1.1	1.9	1.6	1	1.2	1.2	0.9	1.1	0.8	1.1	0.8
Silver	-	-	-	0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	0.2	0.1	<0.1
Sodium	-	-	-	10	220	210	210	250	330	340	90	240	280	210	200	320	190	1,420
Strontium	-	-	-	0.1	19.4	21.2	21.5	44.2	20	19.8	11.9	29.9	27.9	28.1	32.9	61.7	27.5	19.6
Tellurium	-	-	-	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
Thallium	1	-	-	0.1	<0.1	<0.1	0.1	0.1	<0.1	<0.1	<0.1	<0.1	0.1	<0.1	0.1	0.2	0.1	<0.1
Tin	-	-	-	5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5
Titanium	-	-	-	0.5	288	183	277	252	98.7	112	377	297	337	218	518	830	413	67.6
Tungsten	-	-	-	0.05	0.10	0.11	0.11	0.14	<0.05	<0.05	<0.05	0.12	0.1	0.07	0.06	0.12	0.17	<0.05
Uranium	23	-	-	0.02	1.65	1.70	1.80	1.50	0.56	0.59	0.16	1.95	2.38	2.02	2.89	2.50	1.11	0.27
Vanadium	130	-	-	0.5	35.1	30.1	29.9	25.6	11.9	13.5	43.9	18.1	22.1	13.9	30.8	48.7	27.5	8.0
Zinc	200	123	315	10	70	60	70	90	80	80	60	90	90	70	60	140	190	110
Zirconium	-	-	-	0.1	6.1	4.6	6	5.1	1.9	2.1	1.7	7.5	8.1	3	12.1	22.9	8.8	2.5

Notes:

All units in milligrams per kilogram, dry weight, unless otherwise noted.

^a Canadian Council of Ministers of Environment (CCME) Soil Quality Guidelines for the Protection of Environmental and Human Health Use, Residential/Parkland Land Use (CCME, 2007).

^b Manitoba Water Quality Standards, Objectives, and Guidelines (Williamson, 2002).

PEL = probable effects level; DL = detection limit; mm = millimetre; µm = micrometre; % = percent; - = not applicable.

XX Applicable Soil/Sediment Quality Guideline. **XX** Exceeds applicable Soil/Sediment Quality Guideline. **XX** Exceeds all applicable Soil/Sediment Quality Guidelines.

Table - 04: Phytoplankton Biovolume (mm³/L) in the Lalor Study Area, 2010

Class	Species Name	Lalor Lake	Maw Lake	Varnson Lake	Tern Lake	Tern Ditch Pond
Bacillariophyceae	<i>Cyclotella</i> sp.	-	-	0.0396	-	0.0022
	<i>Cymbella</i> sp.	-	0.0034	0.0023	-	-
	<i>Fragilaria</i> sp.	-	0.0020	-	-	-
	<i>Gomphonema</i> sp.	-	-	-	-	0.0036
	<i>Navicula</i> sp.	0.0115	0.1932	0.0048	0.0250	0.0372
	<i>Nitzschia</i> sp.	-	-	0.0691	0.0060	0.0080
	<i>Pinnularia</i> sp.	-	-	-	-	0.0216
	<i>Synedra</i> sp.	-	0.0020	0.0045	0.0100	0.0018
	<i>Tabellaria</i> sp.	-	0.0032	0.0023	0.0304	0.0040
	Sub-Total	0.0115	0.2037	0.1225	0.0715	0.0784
Chlorophyceae	<i>Arthrodesmus convergens</i>	-	-	-	-	-
	<i>Arthrodesmus</i> sp.	-	-	-	-	0.0015
	<i>Botryococcus</i> sp.	0.0675	0.0324	0.0750	0.0324	0.7750
	<i>Closteriopsis</i> sp.	-	-	-	0.0054	-
	<i>Closterium kuetzingii</i>	-	-	-	-	0.0108
	<i>Closterium</i> sp.	-	-	-	-	0.0018
	<i>Coelastrum</i> sp.	-	-	-	0.0016	0.0096
	<i>Cosmarium</i> sp.	0.0324	0.0011	0.0068	0.0054	0.0281
	<i>Crucigenia quadrata</i>	-	-	-	-	0.0001
	<i>Crucigenia rectangularis</i>	-	-	-	0.0014	-
	<i>Crucigenia</i> sp.	-	-	-	-	0.0479
	<i>Crucigenia tetrapedia</i>	-	-	0.0055	-	-
	<i>Elakatothrix</i> sp.	0.0007	0.0181	0.0025	0.0035	-
	<i>Eudorina</i> sp.	-	-	-	0.0054	-
	<i>Monoraphidium</i> sp.	0.0230	0.0253	0.0184	0.0069	0.0009
	<i>Oedogonium</i> sp.	-	-	-	-	0.0012
	<i>Oocystis</i> sp.	0.0592	0.0012	0.0050	0.0024	0.0800
	<i>Pediastrum boryanum</i>	0.0072	0.0016	-	-	-
	<i>Pediastrum tetras</i>	-	-	-	0.0002	0.0111
	<i>Planctonema lauterborni</i>	-	-	0.0013	-	-
	<i>Quadrigula</i> sp.	-	-	0.0104	-	0.0071
	<i>Scenedesmus acuminatus</i>	0.0003	-	-	-	-
	<i>Scenedesmus arcuatus</i>	-	0.0003	-	0.0003	0.0250
	<i>Scenedesmus quadricauda</i>	-	-	-	0.0009	-
	<i>Scenedesmus</i> sp.	0.0154	0.0221	0.0032	0.0123	0.0123
	<i>Sphaerocystis schroeteri</i>	0.0128	-	-	-	-
	<i>Spondylosium</i> sp.	-	-	-	-	0.0026
	<i>Staurastrum</i> sp.	0.0004	0.0032	-	0.0014	-
	<i>Tetraedron minimum</i>	-	-	0.0028	-	-
	<i>Tetraedron muticum</i>	-	-	-	-	0.0002
<i>Tetraedron trigonum</i>	-	-	0.0027	-	-	
	Sub-Total	0.2189	0.1054	0.1335	0.0829	1.0150
Chrysophyceae	<i>Bitrichia</i> sp.	0.0111	0.0111	0.0055	0.0111	-
	<i>Dinobryon</i> sp.	-	-	0.0092	0.0012	0.0046
	small chrysophytes	0.0836	0.0381	0.0737	0.0590	0.4995
	Sub-Total	0.0947	0.0492	0.0885	0.0712	0.5041
Cryptophyceae	<i>Cryptomonas</i> sp.	0.0198	0.0298	0.0198	0.0174	0.0272
	<i>Rhodomonas</i> sp.	-	-	-	-	0.1152
	Sub-Total	0.0198	0.0298	0.0198	0.0174	0.1424
Euglenophyceae	<i>Euglena</i> sp.	-	-	0.0014	0.0020	-
	<i>Trachelomonas</i> sp.	-	-	0.0075	0.0054	-
	Sub-Total	-	-	0.0089	0.0074	-
Myxophyceae	<i>Anabaena</i> sp.	0.0052	0.0268	0.0160	0.0268	0.0320
	<i>Aphanizomenon</i> sp.	-	-	-	0.0015	-
	<i>Aphanocapsa</i> sp.	0.0432	0.0675	0.0675	0.5400	-
	<i>Aphanothece</i> sp.	0.6144	0.1392	3.6288	0.4608	0.0250
	<i>Chroococcus</i> sp.	0.0083	0.0096	0.0054	0.0012	0.0864
	<i>Gomphosphaeria</i> sp.	0.0162	0.0296	0.0100	-	0.0324
	<i>Merismopedia</i> sp.	0.0001	0.0001	0.0002	0.0006	0.0037
	<i>Microcystis</i> sp.	-	-	-	0.0864	-
	<i>Oscillatoria</i> sp.	-	-	-	0.0046	-
	<i>Planktolyngbya contorta</i>	-	-	-	0.0012	-

Table - 04: Phytoplankton Biovolume (mm³/L) in the Lalor Study Area, 2010

Class	Species Name	Lalor Lake	Maw Lake	Varnson Lake	Tern Lake	Tern Ditch Pond
	<i>Planktolyngbya</i> sp.	0.0230	0.0018	0.0006	0.0092	0.0092
Myxophyceae (con't)	<i>Planktothrix</i> sp.	0.0013	0.0564	0.0004	-	-
	<i>Pseudoanabaena</i> sp.	0.1106	0.1106	0.0065	0.0015	0.0024
	<i>Rhabdoderma</i> sp.	-	-	0.0002	-	-
	<i>Spirulina</i> sp.	-	-	0.0015	-	-
	Sub-Total	0.8223	0.4416	3.7371	1.1337	0.1911
Peridineeae	<i>Ceratium hirundinella</i>	-	-	-	0.3264	-
	<i>Ceratium rhomvoides</i>	-	0.0144	-	-	-
	<i>Glenodinium</i> sp.	-	-	-	-	0.0063
	<i>Gymnodinium</i> sp.	0.0113	-	0.0038	-	0.0113
	<i>Peridinium</i> sp.	-	0.0072	-	0.0144	-
	Sub-Total	0.0113	0.0216	0.0038	0.3408	0.0176
	Grand Total	1.1785	0.8512	4.1139	1.7250	1.9486

Table - 05: Zooplankton Abundance (n/m³) in the Lalor Study Area, 2010

Class	Species Name	Lalor Lake	Maw Lake	Varnson Lake	Tern Lake	Tern Ditch Pond
Branchiopoda	<i>Bosmina sp.</i>	111.5	111.5	195.2	111.5	1951.6
	<i>Diaphanosoma sp.</i>	-	-	-	139.4	27.9
	<i>Sida crystallina</i>	-	55.8	-	-	-
	Unidentified	-	-	-	-	139.4
	Sub-Total	111.5	167.3	195.2	250.9	2118.9
Ciliata	<i>Dileptus sp.</i>	-	557.6	-	-	-
	<i>Epistylis sp.</i>	-	-	-	250.9	-
	<i>Trachelius sp.</i>	167.3	-	-	-	-
	<i>Vorticella sp.</i>	4126.2	1784.3	2592.8	4656.0	-
	Unidentified	306.7	418.2	55.8	55.8	-
	Sub-Total	4600.2	2760.1	2648.6	4962.6	-
Copepoda	<i>Diaptomus sp.</i>	139.4	-	557.6	362.4	362.4
	Naupilii	2383.7	2118.9	1073.4	1045.5	1031.6
	Sub-Total	2523.1	2118.9	1631.0	1407.9	1394.0
Gastrotricha	<i>Chaetonotus sp.</i>	27.9	-	-	-	-
Heliozoa	<i>Actinosphaerium sp.</i>	-	27.9	27.9	-	55.8
Insecta	Unidentified	-	-	-	27.9	-
Monogononta	<i>Cephalodella sp.</i>	-	27.9	-	-	27.9
	<i>Collotheca sp.</i>	1310.4	-	-	-	-
	<i>Conochiloides sp.</i>	-	-	27.9	-	-
	<i>Conochilus sp.</i>	278.8	1728.6	446.1	250.9	55.8
	<i>Euchlanis sp.</i>	-	-	-	-	27.9
	<i>Gastropus sp.</i>	585.5	278.8	111.5	139.4	27.9
	<i>Kellicotia longispina</i>	278.8	557.6	83.6	139.4	27.9
	<i>Keratella sp.</i>	3066.8	11096.2	111.5	9367.7	1143.1
	<i>Lecane sp.</i>	27.9	83.6	-	-	-
	<i>Lepadella sp.</i>	27.9	83.6	-	-	-
	<i>Monostyla sp.</i>	139.4	250.9	-	139.4	55.8
	<i>Notholca sp.</i>	-	83.6	-	-	-
	<i>Ploesoma sp.</i>	55.8	-	27.9	390.3	27.9
	<i>Polyarthra sp.</i>	306.7	1394.0	1059.4	83.6	-
	<i>Trichocerca sp.</i>	-	27.9	-	-	-
	Unidentified	-	-	250.9	-	474.0
	Sub-Total	6077.8	15612.8	2118.9	10510.8	1868.0
Unidentified		-	223.0	27.9	-	-
Grand Total		13340.6	20910.0	6649.4	17160.1	5436.6

Table - 06: Fishing Effort in Tern Ditch Pond

Waterbody	Fishing Method	Station	Start UTM (14U)		End UTM (14U)		Set			Finish		BKSB	Habitat
			Northing	Easting	Northing	Easting	Date	Time	Depth (m)	Date	Time		
Tern Ditch Pond	Baited Minnow Trap	TDP-MT1	6080363	427514	-	-	8-Jul-10	17:19	0.4	10-Jul-10	13:35	0	Flooded vegetation (grasses); soft sediment; near shore.
Tern Ditch Pond	Baited Minnow Trap	TDP-MT2	6080436	427504	-	-	8-Jul-10	17:25	0.6	10-Jul-10	13:35	0	Near to flooded vegetation (grasses); soft sediment; away from shore.
Tern Ditch Pond	Baited Minnow Trap	TDP-MT3	6080522	427559	-	-	8-Jul-10	17:33	0.5	10-Jul-10	13:35	0	Near to flooded vegetation (grasses); soft sediment; away from shore.
Tern Ditch Pond	Baited Minnow Trap	TDP-MT4	6080517	427715	-	-	8-Jul-10	17:37	0.6	10-Jul-10	13:35	1	Bedrock/Boulder area surrounded by flooded vegetation.
Tern Ditch Pond	Baited Minnow Trap	TDP-MT5	6080419	427727	-	-	8-Jul-10	17:44	0.6	10-Jul-10	13:35	0	Flooded vegetation (grasses); soft sediment.
Tern Ditch Pond	Baited Minnow Trap	TDP-MT6	6080450	427677	-	-	8-Jul-10	17:50	0.8	10-Jul-10	13:35	7	Flooded vegetation (grasses); soft sediment; near centre of pond.
Tern Ditch Pond	Swedish Gang Gill Net	TDP-GN1	6080485	427722	6080502	427711	9-Jul-10	12:03	<0.75	10-Jul-10	13:49	1	Near Bedrock/Boulder area; soft vegetated substrate.
Tern Ditch Pond	Swedish Gang Gill Net	TDP-GN2	6080601	427711	6080566	427702	9-Jul-10	13:04	<1.25	10-Jul-10	13:56	3	Near outlet channel that leads to road; soft vegetated substrate.
Tern Ditch Pond	Seine Net	TDP-SN1	6080384	427574	-	-	10-Jul-10	11:49	1.0-0.5	-	-	1	Organic substrate; emergent/submergent vegetation, small woody debris, and overhanging vegetation provide cover.
Tern Ditch Pond	Seine Net	TDP-SN2	6080384	427574	-	-	10-Jul-10	12:10	1.0-0.5	-	-	0	
Tern Ditch Pond	Seine Net	TDP-SN3	6080527	427725	-	-	10-Jul-10	12:19	1.0-0.5	-	-	0	Bedrock/Boulder substrate; submergent/emergent vegetation provides cover.
Tern Ditch Pond	Seine Net	TDP-SN4	6080527	427725	-	-	10-Jul-10	12:24	1.0-0.5	-	-	0	
Tern Ditch Pond	Seine Net	TDP-SN5	6080591	427647	-	-	10-Jul-10	12:40	0.8	-	-	13	Organic substrate; bladderwort & <i>Carex</i> spp for cover.

Notes:

Seine net was held near/on shore and boat was pulled around in an arc.

BKSB = Brook Stickleback.

Table - 07: Whole-Body Metals Analysis of Brook Stickleback Collected in Tern Ditch Pond

Parameter	MWQSOG*	DL	BKSB001	BKSB002	BKSB003	BKSB004	BKSB005	BKSB006	BKSB007	BKSB008	BKSB009	BKSB010	BKSB011	BKSB012	BKSB013	BKSB014	BKSB015	BKSB016	BKSB017
Length (mm)	-	1	67	56	60	58	43	48	58	50	57	57	62	34	47	47	35	35	47
Weight (g)	-	0.1	2.5	1.5	2.2	1.7	0.8	1.1	2.0	1.1	1.3	1.3	2.0	0.5	1.7	1.3	0.5	0.5	0.9
Moisture (%)	-	0.1	77.6	77.1	74.8	78.0	75.1	75.0	78.9	75.4	75.1	73.3	79.5	75.9	79.3	74.7	79.6	76.1	74.3
Calcium	-	2.0 - 4.0	12,100	6,780	7,320	8,800	5,510	6,350	13,400	5,920	2,240	8,250	12,400	5,790	5,320	6,250	5,160	7,250	5,770
Magnesium	-	1.0 - 2.0	504	358	367	403	294	373	520	333	118	396	493	399	335	381	359	399	359
Potassium	-	200	3,600	2,930	3,320	3,170	3,690	3,490	3,510	3,440	3,710	3,700	3,090	3,640	3,360	3,620	3,370	3,610	3,640
Sodium	-	200	1,260	480	750	710	1,150	810	1,350	1,030	1,150	1,140	1,580	1,150	1,180	1,180	1,110	1,260	1,120
Phosphorus	-	50	8,820	5,380	5,970	6,330	5,600	5,540	9,360	5,370	6,430	6,950	8,820	5,430	4,750	5,290	4,570	5,780	5,170
Aluminum	-	2.0 - 4.0	<4.0	4.7	5.5	<2.0	<2.0	2.4	<4.0	<2.0	<2.0	<2.0	<4.0	6.3	2.5	8.1	<4.0	<4.0	2.2
Antimony	-	0.01 - 0.02	<0.020	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020	<0.010	<0.010	0.010	<0.020	<0.020	<0.010	<0.010	<0.020	<0.020	<0.010
Arsenic	3.5	0.01 - 0.02	0.123	0.038	0.029	0.030	0.040	0.049	0.117	0.032	<0.010	0.032	0.087	0.055	0.037	0.087	0.048	0.080	0.065
Barium	-	0.01 - 0.02	2.63	1.41	2.67	1.96	1.37	1.27	3.00	1.90	0.431	1.69	2.72	1.84	1.26	2.50	1.40	2.96	1.96
Beryllium	-	0.1 - 0.2	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.10	<0.20	<0.20	<0.10	<0.10	<0.20	<0.20	<0.10
Bismuth	-	0.03 - 0.06	<0.060	<0.030	<0.030	<0.030	<0.030	<0.030	<0.060	<0.030	<0.030	<0.030	<0.060	<0.060	<0.030	<0.030	<0.060	<0.060	<0.030
Cadmium	-	0.005 - 0.01	<0.010	0.0051	<0.0050	<0.0050	0.0146	0.0143	<0.010	0.0052	<0.0050	0.0056	<0.010	<0.010	0.0083	0.0095	<0.010	0.010	0.0073
Chromium	-	0.1 - 0.2	<0.20	0.63	0.14	0.29	<0.10	<0.10	0.36	<0.10	<0.10	0.16	0.23	<0.20	<0.10	0.14	<0.20	<0.20	<0.10
Cobalt	-	0.02 - 0.04	<0.040	<0.020	<0.020	<0.020	0.032	0.042	<0.040	<0.020	<0.020	<0.020	<0.040	<0.040	<0.020	0.031	<0.040	<0.040	0.022
Copper	-	0.01 - 1.4	1.60	<1.1	<1.3	<1.0	<1.2	<1.3	<1.1	<1.0	<0.30	<1.0	<1.1	<1.2	<1.2	1.47	<1.2	<1.4	1.48
Iron	-	2.0 - 2.0	28.1	23.6	28.3	25.9	32.9	31.9	22.3	24.4	23.3	19.1	20.1	45.0	44.4	49.4	41.2	77.2	50.8
Lead	0.5	0.02 - 0.04	<0.040	<0.020	0.023	0.026	<0.020	0.021	<0.040	<0.020	<0.020	<0.020	<0.040	0.044	<0.020	0.047	0.048	<0.040	<0.020
Lithium	-	0.1 - 0.2	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.10	<0.20	<0.20	<0.10	<0.10	<0.20	<0.20	<0.10
Manganese	-	0.01 - 0.02	10.6	6.94	7.49	7.91	7.47	7.85	12.6	5.98	2.04	7.35	14.0	6.00	9.40	9.46	8.27	11.5	8.12
Mercury	0.5	0.001 - 0.01	0.102	0.0127	0.0182	0.0115	0.0134	0.0091	0.0496	0.0097	0.0120	0.0131	0.0386	0.0110	0.0121	0.0077	0.0088	0.019	0.0103
Molybdenum	-	0.01 - 0.02	0.030	0.035	0.034	0.034	0.040	0.052	0.032	0.035	0.010	0.039	0.030	0.043	0.035	0.053	0.050	0.057	0.052
Nickel	-	0.1 - 0.5	<0.20	<0.50	<0.20	<0.50	<0.30	<0.40	<0.30	<0.10	<0.10	<0.20	<0.20	0.70	0.71	<0.20	1.76	<0.40	<0.20
Selenium	-	0.2 - 0.4	<0.40	<0.20	<0.20	0.22	<0.20	0.21	<0.40	0.20	<0.20	0.24	<0.40	<0.40	<0.20	0.22	<0.40	<0.40	0.24
Strontium	-	0.01 - 0.02	11.6	5.57	10.3	8.50	4.82	5.64	12.4	5.76	1.87	7.09	12.0	5.93	4.58	5.85	4.80	6.26	5.47
Thallium	-	0.01 - 0.02	<0.020	<0.010	<0.010	<0.010	<0.010	<0.010	<0.020	<0.010	<0.010	<0.010	<0.020	<0.020	<0.010	<0.010	<0.020	<0.020	<0.010
Tin	-	0.05 - 0.1	<0.10	<0.050	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.050	<0.050	<0.10	<0.10	<0.050	<0.050	<0.10	<0.10	<0.050
Titanium	-	1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	<1.0
Uranium	-	0.002 - 0.004	<0.0040	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020	<0.0040	<0.0020	<0.0020	<0.0020	<0.0040	<0.0040	<0.0020	<0.0020	<0.0040	<0.0040	<0.0020
Vanadium	-	0.1 - 0.2	<0.20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.20	<0.10	<0.10	<0.10	<0.20	<0.20	<0.10	<0.10	<0.20	<0.20	<0.10
Zinc	-	0.1 - 0.2	55.6	33.7	33.3	38.9	28.0	39.4	53.0	37.1	9.93	36.2	50.2	27.4	33.3	32.6	29.6	33.1	31.0

Table - 07: Whole-Body Metals Analysis of Brook Stickleback Collected in Tern Ditch Pond (con't)

Parameter	MWQSOG*	DL	BKSB018	BKSB019	BKSB020	Min	Max	Mean	SD
Length (mm)	-	1	42	43	46	1	67	47	14.1
Weight (g)	-	0.1	0.8	0.6	1.0	0.1	2.5	1.2	0.64
Moisture (%)	-	0.1	75.6	76.0	75.6	00.1	79.6	72.7	16.74
Calcium	-	2.0 - 4.0	6,670	6,570	6,530	2,240	13,400	7,219	2684.4
Magnesium	-	1.0 - 2.0	381	368	367	118	520	375	83.0
Potassium	-	200	3,570	3,320	3,430	200	3,710	3,305	741.8
Sodium	-	200	1,200	1,020	1,050	200	1,580	1,042	306.0
Phosphorus	-	50	5,430	5,260	5,520	50	9,360	5,801	1876.1
Aluminum	-	2.0 - 4.0	2.9	<2.0	<2.0	<2.0	8.1	4.3	2.18
Antimony	-	0.01 - 0.02	<0.010	<0.010	<0.010	<0.010	<0.020	-	-
Arsenic	3.5	0.01 - 0.02	0.072	0.056	0.053	0.029	3.500	0.232	0.7698
Barium	-	0.01 - 0.02	1.53	2.33	1.79	0.43	3.00	1.93	0.673
Beryllium	-	0.1 - 0.2	<0.10	<0.10	<0.10	<0.10	<0.20	-	-
Bismuth	-	0.03 - 0.06	<0.030	<0.030	<0.030	<0.030	<0.060	-	-
Cadmium	-	0.005 - 0.01	0.0096	0.0101	0.0066	<0.010	0.0146	0.0089	0.00320
Chromium	-	0.1 - 0.2	<0.10	<0.10	<0.10	<0.10	0.63	-	-
Cobalt	-	0.02 - 0.04	<0.020	0.037	<0.020	<0.02	0.042	-	-
Copper	-	0.01 - 1.4	1.40	1.48	<1.2	<0.30	1.6	-	-
Iron	-	2.0 - 2.0	50.9	36.0	30.0	19.1	77.2	35.2	14.41
Lead	0.5	0.02 - 0.04	<0.020	<0.020	<0.020	<0.020	0.5	-	-
Lithium	-	0.1 - 0.2	<0.10	<0.10	<0.10	<0.10	<0.20	-	-
Manganese	-	0.01 - 0.02	8.78	9.69	9.18	2.04	14.0	8.53	2.568
Mercury	0.5	0.001 - 0.01	0.0088	0.0093	0.0116	0.008	0.500	0.042	0.1071
Molybdenum	-	0.01 - 0.02	0.057	0.048	0.037	0.010	0.057	0.040	0.0115
Nickel	-	0.1 - 0.5	<0.40	<0.10	<0.50	<0.10	1.76	-	-
Selenium	-	0.2 - 0.4	0.25	0.21	0.23	<0.20	0.25	-	-
Strontium	-	0.01 - 0.02	6.52	6.22	6.05	1.87	12.4	6.86	2.74
Thallium	-	0.01 - 0.02	<0.010	<0.010	<0.010	<0.010	<0.020	-	-
Tin	-	0.05 - 0.1	<0.050	<0.050	<0.050	<0.050	<0.10	-	-
Titanium	-	1.0	<1.0	<1.0	<1.0	<1.0	1.1	-	-
Uranium	-	0.002 - 0.004	<0.0020	<0.0020	<0.0020	<0.0020	<0.0040	-	-
Vanadium	-	0.1 - 0.2	<0.10	<0.10	<0.10	<0.10	<0.20	-	-
Zinc	-	0.1 - 0.2	33.3	31.7	30.9	9.93	55.6	34.9	9.86

Notes:

* Manitoba Water Quality Standards, Objectives and Guidelines (Williamson, 2002).

All units are mg/kg et weight, except where noted.

If more than half of the values were less than the analytical detection limit, mean and standard deviation are not reported.

< = less than; mm = millimetre; g = gram; % = percent; DL = detection limit; Min = minimum; Max = maximum; SD = standard deviation.