



LOMIKO
METALS®

WATER QUALITY MONITORING – LA LOUTRE PROJECT

RESULTS OF SAMPLING CAMPAIGNS

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CONTEXT

Water quality is an essential indicator of the health of aquatic ecosystems. As part of the environmental studies associated with the La Loutre project, sampling campaigns were conducted from 2021 to 2025 in various water bodies in the area to document current environmental conditions.

This work will establish a baseline picture of water quality prior to any project-related activity. The data collected will be used to better understand the natural characteristics of the area and to compare the concentrations observed with recognized environmental criteria for the protection of aquatic life.

Water samples are taken at several stations located in nearby lakes or in the project area. They are then analyzed in a laboratory to measure various physical and chemical parameters, such as certain metals and other indicators of water quality.

The results presented in this document illustrate the environmental conditions observed during the sampling campaigns. They contribute to the assessment and monitoring of water quality in the area and provide a baseline for environmental studies of the project.

SITES

As part of the environmental studies conducted for the La Loutre project, several sampling stations were established in various bodies of water in the area.

The sampling stations are distributed in such a way as to cover the different aquatic environments present in the study area (Figure 1). This approach provides a representative picture of the natural conditions of the environment and allows for monitoring changes in water quality over time.

The following table lists the names of the stations with their geographic coordinates and a brief description.

Table 1. Description of sampling sites.

Stations	Latitude	Longitude	Descriptions
WQ-L1	46.04785	-75.0004	Unnamed lake north of the proposed mine facilities
WQ-L2	46.02685	-74.98365	Petit Lac Vert lake
WQ-L4	46.043808	-74.98154	Unnamed lake downstream from Ovila-Fortier. upstream from La Rouge lake
WQ-L5	46.026529	-74.99993	Tallulah lake
WQ-L6	46.029381	-75.00835	Unnamed lake upstream from Doré Lake
WQ-S1	46.04038	-75.00145	Downstream of an unnamed lake upstream of the proposed co-disposal facility site
WQ-L7	46.011642	-75.00114	Unnamed lake south of the proposed mine facilities
WQ-L-DORE	46.033598	-75.02254	Doré lake
WQ-S3	46.03206	-74.97947	Downstream of the proposed mine design. upstream of Bois Tombé lake
WQ-S4	46.0355	-75.01998	Upstream of Doré Lake
WQ-S7	46.015134	-75.00962	Upstream of an unnamed lake south of the proposed facilities

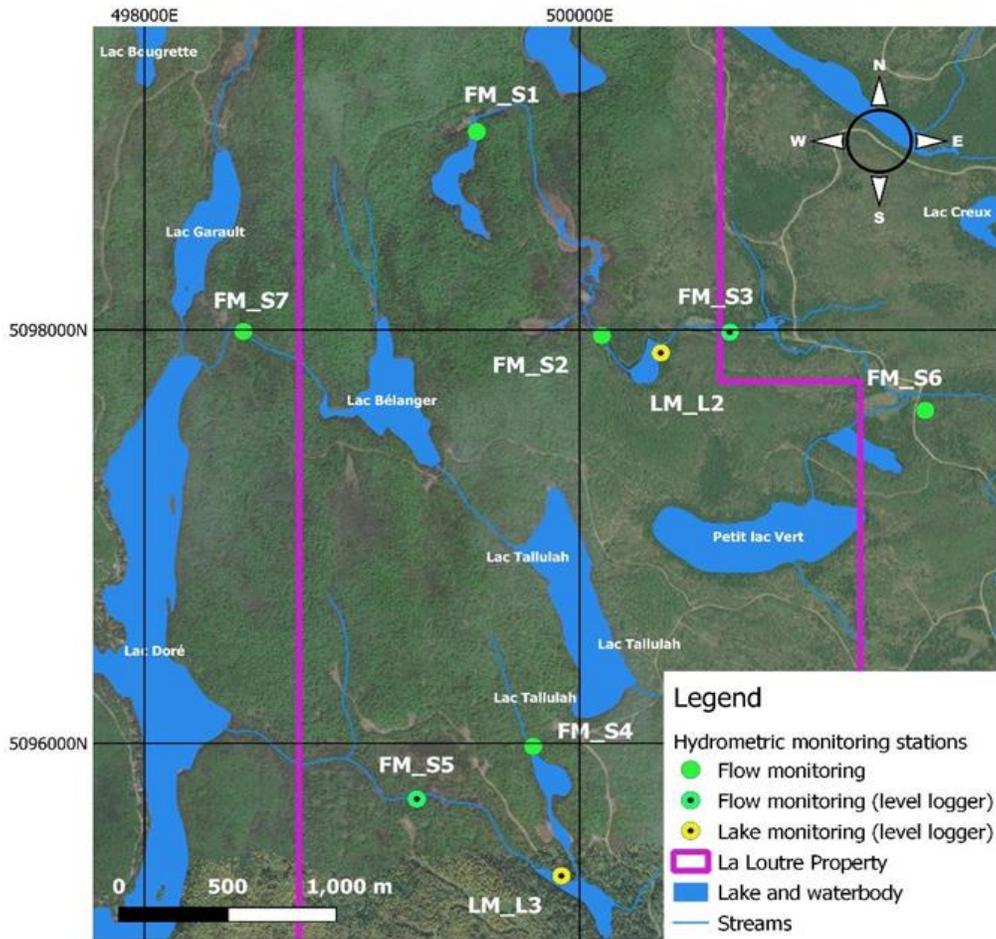


Figure 1. Location of sampling stations in the La Loutre project area.

CRITERIA

In order to assess water quality in the project area, samples were taken from various sampling stations and analyzed in the laboratory. These analyses measure several physical and chemical parameters that help characterize the natural conditions of the aquatic environment.

The parameters analyzed include general indicators of water quality and physicochemical parameters, which provide a better understanding of natural conditions (Table 2). Analyses were also conducted for various metals that may be present in the environment (Table 3).

The concentrations measured are compared to Quebec's surface water quality criteria, which are established to protect aquatic ecosystems. These criteria represent reference thresholds that should not be exceeded in order to preserve the long-term health of aquatic organisms.

Table 22. Physicochemical parameters analyzed and surface water quality criteria in Quebec for the protection of aquatic life.

Physicochemical parameters	Criteria
Conductivity	-
Total alkalinity	10 mg/L
Calcium	-
Chloride	230 mg/L
Dissolved organic carbon	-
Fluoride	0.2 mg/L
Bromide	0.00027 mg/L
Magnesium	-
Nitrates	45 mg/L
Nitrites	0.02 mg/L
Ammoniacal nitrogen	1.2 mg/L
Potassium	-
Sodium	-
Total dissolved solids	-
Suspended solids	25 mg/L
Turbidity	2 NTU
Total hardness	-
Total phosphorus	0.03 mg/L

Table 3. Metals analyzed and surface water quality criteria in Quebec for the protection of aquatic life.

Metals	Criteria (mg/L)
Aluminum (Al)	0.33
Antimony (Sb)	0.24
Silver (Ag)	0.000032
Arsenic (As)	0.15
Barium (Ba)	0.079
Beryllium (Be)	0.00044
Boron (B)	5
Cadmium (Cd)	0.00008
Chrome (Cr)	0.011
Cobalt (Co)	0.1
Copper (Cu)	0.0024
Tin (Sn)	-
Iron (Fe)	1.3
Manganese (Mn)	0.47
Mercury (Hg)	0.00091
Molybdenum (Mo)	3.2
Nickel (Ni)	0.013
Lead (Pb)	0.00041
Selenium (Se)	0.005
Strontium (Sr)	2.1
Thallium (Tl)	0.01
Titanium (Ti)	-
Uranium (U)	0.014
Vanadium (V)	0.012
Zinc (Zn)	0.031

The colors and codes used in the results tables are explained below. They allow you to quickly see whether the measured concentrations exceed the environmental criteria established for the protection of aquatic life.

Table 4. Legends and codes.

	Exceeds the long-term protection level for aquatic life
	Exceeds the contamination prevention level (for aquatic organisms only)
NA	Not applicable
ND	Not detected

RESULTS – 2021 DATA

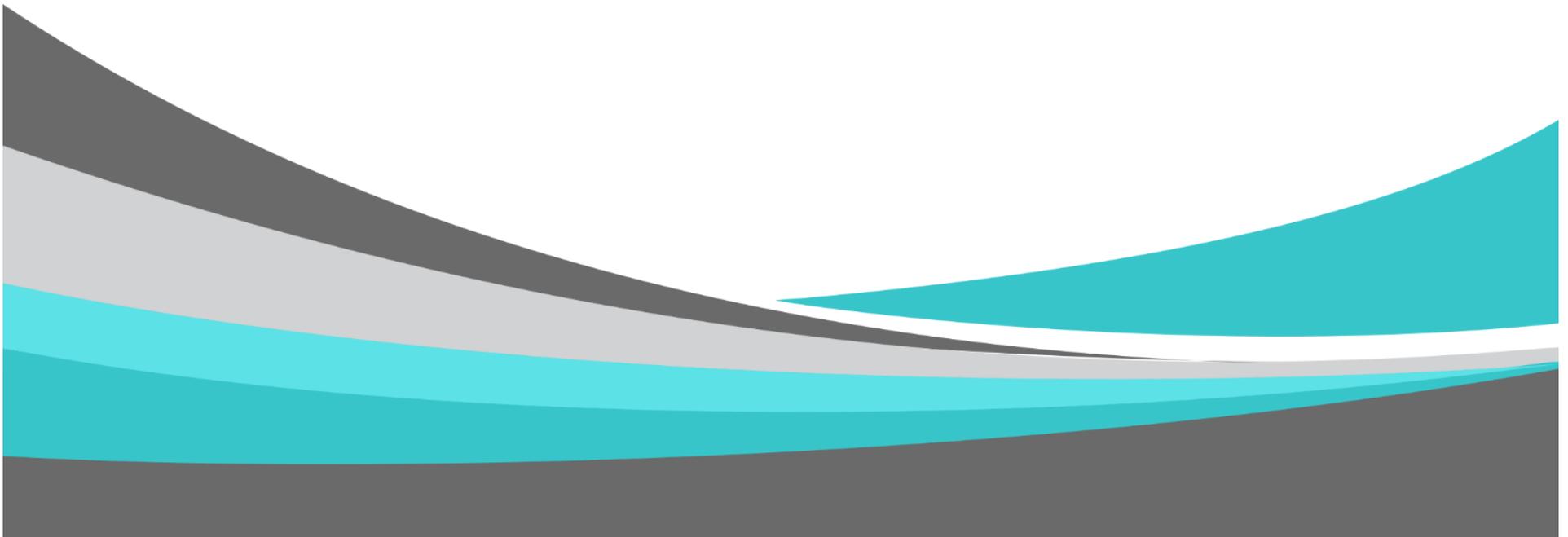


Table 5. Water quality test results – August 2021

Surface water parameters											
Parameters	Units	Stations									
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7
Conductivity	µS/cm	0.04	0.06	0.062	0.04	0.048	0.054	NA	0.11	0.058	0.036
Total Alkalinity (CaCO ₃)	mg/L	12	25	29	14	17	25	NA	54	23	14
Calcium (Ca)	mg/L	6.1	8.6	10	5	6.9	8.2	NA	20	9.2	5.5
Chloride (Cl)	mg/L	0.16	0.22	0.17	0.29	0.25	0.072	NA	0.19	0.26	0.099
Dissolved organic carbon	mg/L	4.4	3.5	6.7	3.7	4.9	7.4	NA	8.6	4.1	13
Fluoride (F)	mg/L	0.033	0.037	0.043	0.035	0.04	0.048	NA	0.045	0.045	0.046
Magnesium (Mg)	mg/L	0.47	1.4	0.7	0.94	0.91	0.86	NA	1.7	1	0.75
Nitrates (N-NO ⁻³)	mg/L	0.12	ND	ND	ND	ND	0.064	NA	ND	0.13	0.033
Nitrites (N-NO ⁻²)	mg/L	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Ammoniacal nitrogen (NH ₄ ⁺ and NH ₃)	mg/L	0.32	0.18	0.073	0.25	0.16	0.029	NA	0.38	0.31	0.29
Potassium (K)	mg/L	0.21	0.66	0.39	0.54	0.52	0.4	NA	0.6	0.61	0.2
Sodium (Na)	mg/L	0.42	0.61	0.52	0.53	0.47	0.56	NA	0.53	0.53	0.45
Total dissolved solids	mg/L	38	52	58	33	48	53	NA	88	41	57
Suspended solids	mg/L	2.8	4.4	1.2	2	1	0.6	NA	6	0.4	3.3
Turbidity	NTU	1.1	0.78	0.94	0.8	0.35	0.87	NA	4.3	0.27	1.4
Total phosphorus	mg/L	0.0058	0.01	0.017	0.0058	0.0035	0.0068	NA	0.016	0.0048	0.014
Trace metals in water											
Elements	Units	Stations									

		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7
Aluminum (Al)	mg/L	0.023	0.018	0.013	0.029	0.022	0.039	NA	0.03	0.014	0.065
Antimony (Sb)	mg/L	0.000056	0.000037	0.000061	0.000049	0.000046	0.000043	NA	0.000039	0.000048	0.000049
Silver (Ag)	mg/L	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Arsenic (As)	mg/L	0.00012	0.000089	0.00013		0.000091	0.00014	NA	0.00027	0.00011	0.0002
Barium (Ba)	mg/L	0.0029	0.0059	0.0063	0.0049	0.0041	0.0096	NA	0.016	0.0043	0.0097
Boron (B)	mg/L	0.0024	0.0044	0.0036	0.0034	0.0041	0.0048	NA	0.0057	0.0044	0.0046
Cadmium (Cd)	mg/L	ND	ND	ND	ND	ND	0.0000064	NA	0.000006	ND	ND
Chrome (Cr)	mg/L	0.000042	0.000061	0.000085	0.000057	0.00006	0.00011	NA	0.000073	0.000043	0.00016
Cobalt (Co)	mg/L	0.000011	0.00002	0.000022	0.000034	0.000017	0.00017	NA	0.00081	0.000041	0.00012
Copper (Cu)	mg/L	0.00023	0.0003	0.00033	0.00024	0.00032	0.0003	NA	0.00014	0.00028	0.00038
Tin (Sn)	mg/L	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Iron (Fe)	mg/L	0.013	0.013	0.11	0.025	0.017	0.51	NA	1.5	0.025	0.69
Manganese (Mn)	mg/L	0.0044	0.0032	0.016	0.0093	0.0029	0.027	NA	0.65	0.008	0.017
Mercury (Hg)	mg/L	ND	ND	ND	ND	ND	ND	NA	0.000004	ND	ND
Molybdenum (Mo)	mg/L	0.000037	0.000098	0.00005	0.000037	0.000037	0.00011	NA	0.00009	0.000055	0.00013
Nickel (Ni)	mg/L	0.00011	0.00023	0.00019	0.00015	0.00032	0.00048	NA	0.00041	0.00031	0.00053
Lead (Pb)	mg/L	0.000044	0.000017	0.000019	0.000064	ND	0.000048	NA	0.000056	0.000018	0.00013
Selenium (Se)	mg/L	ND	ND	ND	ND	ND	0.000052	NA	ND	ND	0.000053
Thallium (Tl)	mg/L	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND
Titanium (Ti)	mg/L	ND	ND	0.00047	0.0013	ND	0.00076	NA	0.0012	ND	0.001
Uranium (U)	mg/L	0.0000095	0.000025	0.000015	0.000013	0.0000092	0.000019	NA	0.000014	0.0000082	0.000018
Vanadium (V)	mg/L	0.00006	0.000088	0.000059	0.000057	0.000056	0.00015	NA	0.0002	0.000081	0.00025
Zinc (Zn)	mg/L	0.00056	ND	0.00056	0.00055	ND	0.0015	NA	0.0039	ND	0.0015

Table 6. Water quality test results – September 2021

Surface water parameters											
Parameters	Units	Stations									
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7
Conductivity	µS/cm	NA	0.063	0.063	0.039	0.048	0.037	NA	0.079	0.053	0.046
Total Alkalinity (CaCO ₃)	mg/L	NA	27	30	14	18	14	NA	36	22	21
Calcium (Ca)	mg/L	NA	9.3	11	5.4	7.3	5.8	NA	13	8	7.7
Chloride (Cl)	mg/L	NA	0.22	0.18	NA	0.26	0.16	NA	0.2	0.28	0.17
Dissolved organic carbon	mg/L	NA	3.5	5.8	3.3	4.4	9.6	NA	7	4	8.4
Fluoride (F)	mg/L	NA	0.031	0.041	0.033	0.036	0.041	NA	0.036	0.036	0.04
Magnesium (Mg)	mg/L	NA	1.2	0.75	0.99	0.93	0.81	NA	1.3	0.94	0.82
Nitrates (N-NO ⁻³)	mg/L	NA	ND	ND	ND	ND	ND	NA	ND	0.029	0.042
Nitrites (N-NO ⁻²)	mg/L	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND
Ammoniacal nitrogen (NH ₄ ⁺ and NH ₃)	mg/L	NA	ND	ND	0.028	ND	ND	NA	0.03	ND	ND
Potassium (K)	mg/L	NA	0.73	0.51	0.67	0.62	0.4	NA	0.59	0.61	0.42
Sodium (Na)	mg/L	NA	0.6	0.64	0.63	0.55	0.61	NA	0.57	0.57	0.62
Total dissolved solids	mg/L	NA	63	54	26	38	57	NA	71	50	49
Suspended solids	mg/L	NA	1.1	1.1	2.2	1.1	1.9	NA	0.66	0.74	0.84
Turbidity	NTU	NA	0.43	0.61	0.89	0.34	0.89	NA	0.69	0.19	0.65
Total phosphorus	mg/L	NA	0.0066	0.0077	0.0088	0.0049	0.011	NA	0.0077	0.0049	0.0074
Trace metals in water											
Elements	Units	Stations									

		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7
Aluminum (Al)	mg/L	NA	0.016	0.0098	0.016	0.02	0.074	NA	0.02	0.016	0.045
Antimony (Sb)	mg/L	NA	0.000026	0.000028	0.000031	0.000031	0.000036	NA	0.000026	0.000031	0.000034
Silver (Ag)	mg/L	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND
Arsenic (As)	mg/L	NA	0.0001	0.00015	ND	0.00011	0.00022	NA	0.00016	ND	0.00017
Barium (Ba)	mg/L	NA	0.0068	0.0079	0.0059	0.0051	0.011	NA	0.0083	0.0049	0.0091
Boron (B)	mg/L	NA	0.0049	0.0044	0.0042	0.0049	0.0058	NA	0.0062	0.0048	0.0055
Cadmium (Cd)	mg/L	NA	ND	ND	ND	ND	ND	NA	ND	ND	0.000009
Chrome (Cr)	mg/L	NA	ND	ND	ND	ND	0.00013	NA	ND	ND	0.0001
Cobalt (Co)	mg/L	NA	0.000014	0.000022	0.00002	0.000021	0.00018	NA	0.00011	0.000025	0.00018
Copper (Cu)	mg/L	NA	0.00031	0.00023	0.00029	0.00042	0.00064	NA	0.00026	0.00042	0.00057
Tin (Sn)	mg/L	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND
Iron (Fe)	mg/L	NA	0.012	0.07	0.015	0.021	0.58	NA	0.33	0.019	0.5
Manganese (Mn)	mg/L	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND
Mercury (Hg)	mg/L	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND
Molybdenum (Mo)	mg/L	NA	0.0001	0.000065	0.000049	0.000041	0.00013	NA	0.000065	0.000043	0.00011
Nickel (Ni)	mg/L	NA	0.00024	0.00022	0.00018	0.00038	0.00049	NA	0.00039	0.00035	0.00054
Lead (Pb)	mg/L	NA	0.000011	0.000013	0.000027	0.000014	0.00016	NA	0.000042	0.000015	0.000093
Selenium (Se)	mg/L	NA	0.000052	ND	ND	ND	ND	NA	ND	ND	ND
Thallium (Tl)	mg/L	NA	ND	ND	ND	ND	ND	NA	ND	ND	ND
Titanium (Ti)	mg/L	NA	ND	ND	ND	ND	0.0023	NA	ND	ND	0.00071
Uranium (U)	mg/L	NA	0.00003	0.000017	8.8E-06	0.00001	0.000018	NA	0.00001	0.000011	0.00002
Vanadium (V)	mg/L	NA	0.00012	0.000075	0.000074	0.000071	0.00036	NA	0.00013	0.000073	0.00022
Zinc (Zn)	mg/L	NA	ND	ND	0.00051	0.00081	0.0024	NA	0.0023	0.00089	0.002

Table 7. Water quality test results – October 2021

Surface water parameters											
Parameters	Units	Stations									
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7
Conductivity	µS/cm	0.04	0.065	0.063	0.041	0.044	0.038	0.073	0.074	0.05	0.042
Total Alkalinity (CaCO ₃)	mg/L	14	27	28	14	16	13	32	33	17	15
Bromide (Br ⁻)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium (Ca)	mg/L	6.4	9.4	11	5.3	5.8	5.6	12	13	7.6	7.1
Chloride (Cl)	mg/L	0.2	0.25	0.24	0.31	0.26	0.3	0.39	0.4	0.34	0.31
Dissolved organic carbon	mg/L	3.7	3.5	5.6	3.3	3.7	10	9	7.3	5	10
Fluoride (F)	mg/L	0.028	0.034	0.041	0.033	0.034	0.037	0.038	0.037	0.037	0.038
Magnesium (Mg)	mg/L	0.57	1.3	0.8	1	1.1	0.83	1.3	1.4	1	0.87
Nitrates (NO ⁻³) and Nitrites (NO ⁻²)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ammoniacal nitrogen (NH ₄ ⁺ and NH ₃)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Potassium (K)	mg/L	0.3	0.72	0.57	0.64	0.68	0.7	0.59	0.85	0.64	0.69
Sodium (Na)	mg/L	0.49	0.59	0.62	0.62	0.61	0.63	0.58	0.58	0.57	0.63
Total dissolved solids	mg/L	37	34	51	30	26	55	60	68	44	69
Total hardness	mg/L	18	29	30	18	19	17	36	37	23	21
Suspended solids	mg/L	4.8	1.4	5	1.8	1.2	4.1	0.61	0.9	0.62	5.7
Turbidity	NTU	3.5	0.43	0.71	1	1.1	1.4	0.95	0.84	0.47	1.3
Total phosphorus	mg/L	0.0056	0.0049	0.0058	0.0061	0.0078	0.015	0.0088	0.0069	0.0054	0.011
Trace metals in water											

Elements	Units	Stations									
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7
Aluminum (Al)	mg/L	0.051	0.012	0.033	0.0094	0.036	0.086	0.026	0.017	0.028	0.067
Antimony (Sb)	mg/L	0.000071	0.00003	0.000039	0.000035	0.000042	0.000034	3.50E-05	0.000034	0.00011	0.000045
Silver (Ag)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic (As)	mg/L	0.00012	ND	ND	ND	0.000084	0.00016	0.00012	0.00012	0.00009	0.00016
Barium (Ba)	mg/L	0.0051	0.0062	0.0072	0.0057	0.0057	0.011	0.0058	0.0068	0.0052	0.0095
Beryllium (Be)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron (B)	mg/L	0.0035	0.0053	0.0046	0.0047	0.0043	0.0057	0.0052	0.0064	0.0047	0.0062
Cadmium (Cd)	mg/L	ND	ND	ND	ND	0.0000086	0.000021	ND	ND	0.0000068	0.0000063
Chrome (Cr)	mg/L	ND	ND	0.000054	ND	ND	0.000059	ND	ND	ND	0.000098
Cobalt (Co)	mg/L	0.00006	0.000012	0.00006	0.000017	0.000087	0.00019	0.000054	0.000057	0.000032	0.00016
Copper (Cu)	mg/L	0.00056	0.00025	0.0004	0.00027	0.00031	0.001	0.00038	0.00023	0.00046	0.0004
Iron (Fe)	mg/L	0.14	0.0088	0.2	0.011	0.1	0.54	0.17	0.17	0.034	0.47
Manganese (Mn)	mg/L	0.0091	0.0023	0.045	0.017	0.017	0.025	0.0086	0.015	0.0033	0.018
Mercury (Hg)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum (Mo)	mg/L	0.000041	0.000092	0.000052	0.000045	0.000038	0.0001	0.000048	0.000062	0.000038	0.00013
Nickel (Ni)	mg/L	0.0003	0.00022	0.0003	0.00018	0.00027	0.00051	0.00035	0.00033	0.0004	0.00046
Lead (Pb)	mg/L	0.00018	0.000011	0.000051	0.000028	0.000088	0.00018	0.000046	0.000036	0.000035	0.00011
Selenium (Se)	mg/L	ND	ND	ND	ND	ND	0.000055	ND	ND	ND	ND
Strontium (Sr)	mg/L	0.015	0.024	0.052	0.016	0.016	0.018	0.022	0.024	0.017	0.02
Uranium (U)	mg/L	0.000017	0.000025	0.000019	0.0000057	0.000011	0.00002	0.0000081	0.0000093	0.000012	0.00002
Vanadium (V)	mg/L	0.00015	0.000071	0.00011	ND	0.000082	0.00027	0.000081	0.000078	0.000061	0.00021
Zinc (Zn)	mg/L	0.0019	0.00051	0.0015	0.0067	0.0018	0.0031	0.0015	0.0015	0.0013	0.002

Table 8. Water quality test results – December 2021

Water surface parameters											
Parameters	Units	Stations									
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7
Conductivity	µS/cm	0.069	0.064	0.05	0.046	0.045	0.031	0.063	0.076	0.052	0.042
Total alkalinity (CaCO ₃)	mg/L	23	26	18	14	16	4.8	22	28	17	11
Bromide (Br ⁻)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Calcium (Ca)	mg/L	14	10	8.7	6.3	6.7	4.1	11	14	9	7
Chloride (Cl)	mg/L	0.34	0.27	0.28	0.33	0.26	0.41	0.49	0.42	0.32	0.34
Dissolved organic carbon	mg/L	4.5	4.2	6.6	3.8	6.5	9.3	6.8	6.6	4.8	7.4
Fluoride (F)	mg/L	0.03	0.032	0.028	0.027	0.03	0.028	0.029	0.03	0.033	0.028
Magnesium (Mg)	mg/L	1.1	1.4	0.73	1.2	1.2	0.73	1.2	1.5	1.1	0.87
Nitrates (NO ⁻³) and Nitrites (NO ⁻²)	mg/L	0.029	0.027	0.11	0.11	0.059	0.35	0.27	0.12	0.18	0.084
Ammoniacal nitrogen (NH ₄ ⁺ and NH ₃)	mg/L	0.51	0.025	0.044	0.14	0.051	0.023	0.022	ND	0.021	0.056
Potassium (K)	mg/L	0.34	0.94	0.61	0.77	0.73	0.65	0.69	0.77	0.71	0.69
Sodium (Na)	mg/L	1.4	1	0.94	0.98	0.94	1.2	1.3	0.89	0.76	0.89
Total dissolved solids	mg/L	64	56	46	47	45	59	75	86	70	49
Total hardness	mg/L	39	32	25	21	22	13	33	40	27	21
Suspended solids	mg/L	38	1.1	1.7	1.5	0.92	25	0.32	1	1.4	2.8
Turbidity	NTU	0.88	0.37	0.63	0.83	0.76	1.1	0.6	0.44	0.45	0.6
Total phosphorus	mg/L	0.023	0.011	ND	ND	ND	0.035	ND	ND	ND	0.015
Trace metals in water											

Elements	Units	Stations									
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7
Aluminum (Al)	mg/L	0.33	0.022	0.094	0.023	0.034	0.29	0.089	0.069	0.04	0.72
Antimony (Sb)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver (Ag)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic (As)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium (Ba)	mg/L	0.0096	0.0075	0.0073	0.007	0.0069	0.015	0.0075	0.0069	0.0059	0.012
Beryllium (Be)	mg/L	0.00003	ND	ND	ND	ND	0.000018	ND	ND	ND	0.000013
Boron (B)	mg/L	0.0036	0.0051	0.0036	0.0044	0.0042	0.004	0.0041	0.0046	0.0045	0.0039
Cadmium (Cd)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chrome (Cr)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cobalt (Co)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Copper (Cu)	mg/L	0.0013	ND	ND	0.0016	ND	0.0011	0.0016	ND	ND	ND
Iron (Fe)	mg/L	0.42	0.03	0.12	0.042	0.041	0.3	0.19	0.17	0.07	0.37
Manganese (Mn)	mg/L	0.021	0.013	0.016	0.026	0.024	0.024	0.029	0.014	0.021	0.05
Mercury (Hg)	mg/L	ND	ND	ND	ND	ND	0.0000034	ND	ND	ND	ND
Molybdenum (Mo)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel (Ni)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead (Pb)	mg/L	0.00076	ND	ND	ND	ND	0.00056	ND	ND	ND	ND
Selenium (Se)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Strontium (Sr)	mg/L	0.028	0.029	0.046	0.021	0.021	0.017	0.02	0.028	0.021	0.021
Uranium (U)	mg/L	0.00015	0.000021	0.000018	0.000007	0.000008	0.000032	0.00001	0.000015	0.000013	0.000031
Vanadium (V)	mg/L	0.00078	0.000086	0.0001	ND	ND	0.00042	0.000089	0.00011	0.000062	0.00028
Zinc (Zn)	mg/L	0.0072	ND	ND	0.015	ND	0.014	ND	ND	ND	0.011

RESULTS – 2022 DATA

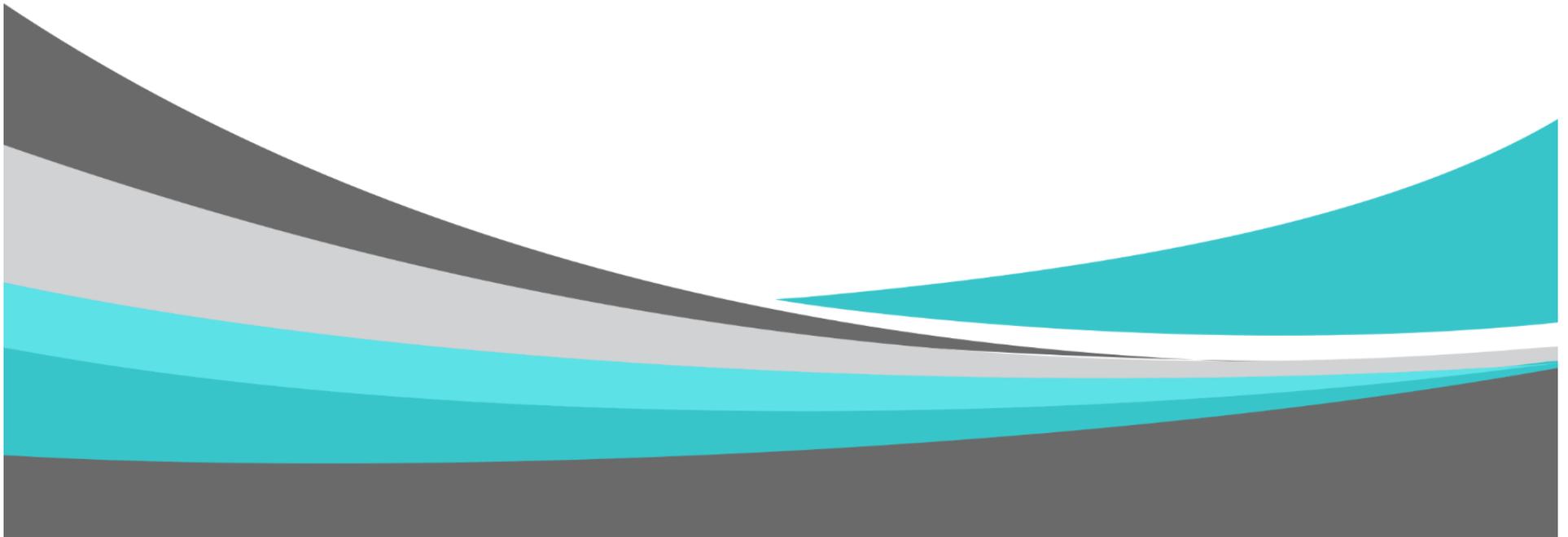


Table 9. Water quality test results – May 2022

Surface water parameters											
Parameters	Units	Stations									
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7
Conductivity	µS/cm	0.041	0.064	0.061	0.04	0.05	0.025	0.052	0.069	0.051	0.036
Total alkalinity (CaCO ₃)	mg/L	12	28	27	14	17	5.7	21	28	17	13
Calcium (Ca)	mg/L	6.6	9.6	10	5.2	7.6	3.4	8.2	11	7.5	5.3
Chloride (Cl)	mg/L	0.27	0.33	0.32	0.3	0.36	0.3	0.37	0.35	0.38	0.31
Dissolved organic carbon	mg/L	3.6	3.4	5.2	3.2	4.3	6.5	7.3	5.5	4.4	6.1
Fluoride (F)	mg/L	0.028	0.034	0.034	0.03	0.034	0.029	0.039	0.035	0.034	0.026
Magnesium (Mg)	mg/L	0.57	1.3	0.69	1	1.1	0.51	0.98	1.3	0.98	0.6
Nitrates (NO ⁻³)	mg/L	0.033	0.026	0.043	0.053	0.058	ND	0.022	0.029	0.063	0.043
Nitrites (NO ⁻²)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ammoniacal nitrogen (NH ₄ ⁺ and NH ₃)	mg/L	ND	ND	0.027	0.025	ND	ND	0.02	ND	ND	ND
Potassium (K)	mg/L	0.31	0.73	0.56	0.62	0.62	0.44	0.52	0.67	0.59	0.49
Sodium (Na)	mg/L	0.56	0.66	0.66	0.65	0.6	0.56	0.64	0.62	0.59	0.6
Total dissolved solids	mg/L	43	38	56	26	46	29	44	62	37	31
Suspended solids	mg/L	0.29	0.88	0.29	0.49	0.29	2.2	2.6	1.4	0.31	0.84
Turbidity	NTU	0.56	0.38	0.66	0.71	0.42	0.67	0.81	0.48	0.44	0.41
Total phosphorus	mg/L	0.0077	0.053	0.0062	0.006	0.0054	0.0086	0.011	0.008	0.0064	0.0066
Trace metals in water											
Elements	Units	Stations									
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7

Aluminum (Al)	mg/L	0.023	0.012	0.038	0.023	0.033	0.11	0.068	0.032	0.032	0.087
Antimony (Sb)	mg/L	0.000038	0.000024	0.000024	0.000028	0.00003	0.000036	0.00004	0.000032	0.000024	0.000031
Silver (Ag)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic (As)	mg/L	0.00013	0.00009	0.000099	ND	0.000095	0.00011	0.00012	0.00011	0.000087	0.00011
Barium (Ba)	mg/L	0.0055	0.0069	0.0065	0.0062	0.0053	0.0078	0.0055	0.0073	0.0051	0.0073
Beryllium (Be)	mg/L	ND	ND	ND	ND	ND	0.000017	ND	ND	ND	ND
Boron (B)	mg/L	0.0031	0.005	0.0034	0.0039	0.0048	0.0037	0.0054	0.0055	0.0042	0.0039
Cadmium (Cd)	mg/L	ND	ND	ND	ND	ND	0.000012	ND	ND	ND	0.0000067
Chrome (Cr)	mg/L	ND	ND	0.000073	ND	0.000085	0.00016	0.000098	0.000042	ND	0.00011
Cobalt (Co)	mg/L	0.000023	0.000015	0.000031	0.00003	0.000034	0.00011	0.0001	0.000072	0.000037	0.0001
Copper (Cu)	mg/L	0.00059	0.00034	0.00069	0.00052	0.00099	0.0015	0.00097	0.00065	0.0007	0.0018
Iron (Fe)	mg/L	0.0095	0.0068	0.073	0.022	0.031	0.13	0.19	0.14	0.029	0.12
Manganese (Mn)	mg/L	0.0045	0.0069	0.018	0.016	0.0073	0.01	0.012	0.018	0.0058	0.012
Mercury (Hg)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum (Mo)	mg/L	0.00033	0.000084	0.00006	0.00003	0.000035	0.000084	0.000057	0.000092	0.000036	0.000085
Nickel (Ni)	mg/L	0.00012	0.00018	0.00066	0.00027	0.00035	0.0004	0.00039	0.00029	0.00032	0.00035
Lead (Pb)	mg/L	ND	ND	ND	ND	0.000019	0.000051	0.000069	0.000024	0.000011	0.000027
Selenium (Se)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	0.00006	ND
Strontium (Sr)	mg/L	0.016	0.026	0.051	0.017	0.019	0.011	0.016	0.024	0.017	0.016
Uranium (U)	mg/L	0.0000079	0.000019	0.000019	0.0000071	0.000012	0.000017	0.000013	0.000013	0.000011	0.000019
Vanadium (V)	mg/L	0.000063	0.000069	0.000086	ND	0.000057	0.00019	0.00019	0.00014	0.000066	0.00016
Zinc (Zn)	mg/L	0.00065	0.00062	0.00061	0.00079	0.001	0.0034	0.0016	0.0011	ND	0.0023

Table 10. Water quality test results – June 2022

Surface water parameters											
Parameters	Units	Stations									
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7
Conductivity	µS/cm	0.04	0.061	0.057	0.037	0.045	0.026	0.052	0.068	0.049	0.033
Total alkalinity (CaCO ₃)	mg/L	13	26	25	14	16	8.6	23	31	17	11
Calcium (Ca)	mg/L	6.3	9.3	9.8	5	6.6	3.8	8.6	11	7.3	5.2
Chloride (Cl)	mg/L	0.22	0.28	0.25	0.26	0.29	0.19	0.26	0.18	0.3	0.19
Dissolved organic carbon	mg/L	3.7	3.3	5.2	3.3	4	8	8.5	6.5	4.3	7.6
Fluoride (F)	mg/L	0.031	0.036	0.038	0.033	0.034	0.033	0.044	0.038	0.035	0.036
Magnesium (Mg)	mg/L	0.52	1.2	0.65	0.98	0.97	0.57	0.99	1.2	0.94	0.61
Nitrates (NO ⁻³)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.025
Nitrites (NO ⁻²)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ammoniacal nitrogen (NH ₄ ⁺ and NH ₃)	mg/L	0.064	0.084	0.074	0.11	0.075	0.086	0.072	0.084	0.076	0.082
Potassium (K)	mg/L	0.27	0.67	0.49	0.58	0.57	0.41	0.49	0.49	0.56	0.43
Sodium (Na)	mg/L	0.51	0.61	0.6	0.62	0.57	0.57	0.57	0.59	0.56	0.57
Total dissolved solids	mg/L	41	48	59	51	43	52	59	60	50	49
Suspended solids	mg/L	0.61	0.52	0.51	1.6	0.72	0.81	0.71	0.92	0.9	1.3
Turbidity	NTU	0.58	0.33	0.43	1.1	0.65	0.95	0.66	0.7	0.61	0.58
Total phosphorus	mg/L	0.0068	0.0038	0.0066	0.0079	ND	0.012	0.011	0.008	0.0059	0.0076
Trace metals in water											
Elements	Units	Stations									
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7

Aluminum (Al)	mg/L	0.026	0.014	0.025	0.022	0.026	0.11	0.045	0.039	0.033	0.084
Antimony (Sb)	mg/L	0.000045	0.000019	0.000023	0.000022	0.00002	0.000025	0.000029	0.000025	0.000024	0.000032
Silver (Ag)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic (As)	mg/L	0.00013	ND	ND	0.000086	0.000098	0.00015	0.00015	0.00018	0.000099	0.00014
Barium (Ba)	mg/L	0.0046	0.0066	0.0063	0.0057	0.0052	0.0091	0.0061	0.0077	0.0048	0.0084
Beryllium (Be)	mg/L	ND	ND	ND	ND	ND	0.000013	ND	ND	ND	ND
Boron (B)	mg/L	0.0027	0.0044	0.0033	0.0035	0.0038	0.0042	0.0055	0.0056	0.004	0.0043
Cadmium (Cd)	mg/L	ND	ND	ND	ND	ND	0.0000072	ND	ND	ND	ND
Chrome (Cr)	mg/L	0.000047	0.000044	0.00011	0.000051	0.000065	0.00019	0.00014	0.000083	0.000082	0.00017
Cobalt (Co)	mg/L	0.000025	0.000013	0.000027	0.000026	0.000042	0.00018	0.000081	0.00012	0.00006	0.00014
Copper (Cu)	mg/L	0.00024	0.00024	0.00032	0.00024	0.00034	0.00075	0.00042	0.00043	0.00034	0.00072
Iron (Fe)	mg/L	0.0084	0.0076	0.05	0.016	0.031	0.29	0.22	0.28	0.034	0.23
Manganese (Mn)	mg/L	0.004	0.0029	0.0092	0.0095	0.0063	0.021	0.012	0.028	0.011	0.016
Mercury (Hg)	mg/L	ND	ND	ND	ND	ND	0.0000021	ND	ND	ND	0.002
Molybdenum (Mo)	mg/L	0.000032	0.000082	0.000055	0.000035	0.000032	0.0001	0.00006	0.000088	0.000035	0.000097
Nickel (Ni)	mg/L	0.00013	0.00021	0.0006	0.00017	0.00032	0.00049	0.00045	0.00033	0.00032	0.00049
Lead (Pb)	mg/L	0.000028	ND	0.000015	0.000021	0.000021	0.000088	0.000057	0.000071	0.000033	0.000064
Selenium (Se)	mg/L	ND	ND	ND	ND	ND	ND	ND	0.058	ND	ND
Strontium (Sr)	mg/L	0.016	0.026	0.048	0.017	0.017	0.013	0.018	0.025	0.018	0.017
Uranium (U)	mg/L	0.000009	0.000025	0.00002	0.0000086	0.00001	0.000023	0.000013	0.000018	0.000013	0.000025
Vanadium (V)	mg/L	0.00005	0.00006	ND	ND	ND	0.00018	0.00015	0.00015	0.000059	0.00017
Zinc (Zn)	mg/L	0.00074	0.00052	0.00067	0.00063	0.00077	0.004	0.0016	0.0013	0.0013	0.0027

Table 11. Water quality test results – July 2022

Surface water parameters												
Parameters	Units	Stations										
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7	Lake Doré
Conductivity	µS/cm	0.039	0.061	0.057	0.042	0.047	0.029	0.056	0.079	0.049	0.038	0.051
Total alkalinity (CaCO ₃)	mg/L	14	27	25	14	17	11	27	38	18	15	21
Calcium (Ca)	mg/L	6.1	9.1	9.7	5.1	6.9	4.7	9.9	14	7.2	6.3	7.9
Chloride (Cl)	mg/L	0.21	0.27	0.23	0.25	0.27	0.13	0.2	0.16	0.29	0.15	0.56
Dissolved organic carbon	mg/L	4	3.4	5.4	3.3	4.2	9	11	7.1	4.2	8.2	4.7
Fluoride (F)	mg/L	0.032	0.035	0.04	0.027	0.038	0.041	0.043	0.044	0.039	0.042	0.036
Magnesium (Mg)	mg/L	0.46	1.1	0.59	0.89	0.87	0.61	0.98	1.3	0.84	0.62	0.61
Nitrates (NO ⁻³)	mg/L	ND	ND	ND	ND	ND	ND	ND	0.028	0.051	0.09	ND
Nitrites (NO ⁻²)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ammoniacal nitrogen (NH ₄ ⁺ and NH ₃)	mg/L	ND	ND	ND	ND	ND	ND	0.024	ND	ND	ND	ND
Potassium (K)	mg/L	0.25	0.66	0.44	0.58	0.55	0.26	0.34	0.52	0.55	0.31	0.48
Sodium (Na)	mg/L	0.48	0.58	0.58	0.6	0.54	0.56	0.52	0.57	0.54	0.57	0.62
Total dissolved solids	mg/L	39	48	61	45	57	50	62	88	60	63	64
Suspended solids	mg/L	4	1.7	0.2	1.4	1.5	2	0.4	2.5	1.3	2.6	1.1
Turbidity	NTU	0.88	0.43	0.73	0.91	0.84	1.3	0.83	0.95	0.78	1.4	0.53

Total phosphorus	mg/L	0.0074	0.0036	0.008	0.0081	0.007	0.018	0.017	0.012	0.0051	0.011	ND
Trace metals in water												
Elements	Units	Stations										
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7	Lake Doré
Aluminum (Al)	mg/L	0.025	0.013	0.02	0.018	0.026	0.087	0.057	0.054	0.032	0.082	0.019
Antimony (Sb)	mg/L	0.000041	0.000026	0.000026	0.000031	0.000031	0.000036	0.000034	0.000027	0.000029	0.000031	0.000035
Silver (Ag)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic (As)	mg/L	0.00019	0.0001	0.00012	0.000094	0.00011	0.00021	0.00023	0.00023	0.00011	0.00019	0.00011
Barium (Ba)	mg/L	0.0048	0.0071	0.0066	0.006	0.0054	0.011	0.0062	0.01	0.0054	0.0099	0.0059
Beryllium (Be)	mg/L	ND	ND	ND	ND	ND	0.000013	0.000012	ND	ND	0.000014	ND
Boron (B)	mg/L	0.0035	0.0054	0.0043	0.0045	0.0042	0.0059	0.007	0.0074	0.0053	0.0062	0.0043
Cadmium (Cd)	mg/L	0.0000073	ND	ND	ND	ND	ND	ND	ND	ND	0.0000092	ND
Chrome (Cr)	mg/L	0.00011	0.000057	0.00008	ND	0.000056	0.00017	0.00015	0.00013	0.000049	0.00018	0.000073
Cobalt (Co)	mg/L	0.000022	0.000013	0.00003	ND	0.000037	0.00021	0.00015	0.00019	0.000072	0.00024	0.000014
Copper (Cu)	mg/L	0.00036	0.00034	0.00041	0.00036	0.00064	0.00072	0.00051	0.00045	0.00044	0.00068	0.00055
Iron (Fe)	mg/L	0.013	0.0082	0.079	0.011	0.039	0.45	0.43	0.63	0.045	0.4	0.033
Manganese (Mn)	mg/L	0.0041	0.0027	0.016	0.008	0.007	0.028	0.021	0.051	0.016	0.033	0.0039
Mercury (Hg)	mg/L	ND	ND	ND	ND	ND	0.0000024	ND	ND	ND	0.0000021	ND
Molybdenum (Mo)	mg/L	0.000045	0.0001	0.000061	0.000048	0.000046	0.00015	0.000065	0.0001	0.000056	0.00014	0.000057
Nickel (Ni)	mg/L	0.00019	0.00022	0.00035	0.00019	0.00035	0.00056	0.00056	0.00049	0.00034	0.00056	0.00029
Lead (Pb)	mg/L	0.000023	ND	ND	0.000014	0.000014	0.00012	0.00014	0.0001	0.000042	0.00009	0.00002
Selenium (Se)	mg/L	ND	ND	ND	ND	ND	ND	0.000091	ND	ND	0.000078	ND
Strontium (Sr)	mg/L	0.017	0.027	0.057	0.019	0.019	0.018	0.023	0.035	0.019	0.023	0.032
Uranium (U)	mg/L	0.0000094	0.000027	0.000021	0.0000092	0.00001	0.000026	0.000019	0.00002	0.000012	0.000027	0.000028
Vanadium (V)	mg/L	0.000059	0.000077	0.000062	ND	ND	0.00022	0.00027	0.00023	0.000075	0.00022	0.000061

Zinc (Zn)	mg/L	0.0016	0.00068	ND	0.00088	0.00087	0.003	0.0021	0.0018	0.00098	0.0031	0.00064
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Table 12. Water quality test results – August 2022

Surface water parameters												
Parameters	Units	Stations										
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7	Lake Doré
Conductivity	µS/cm	0.041	0.063	0.061	0.039	0.048	0.033	0.064	0.1	0.054	0.043	0.051
Total alkalinity (CaCO ₃)	mg/L	12	25	25	13	16	12	29	47	20	15	20
Calcium (Ca)	mg/L	6.2	9.2	10	4.9	6.7	5.1	11	17	7.9	7.1	8
Chloride (Cl)	mg/L	0.2	0.26	0.21	0.36	0.28	0.086	0.18	0.13	0.27	0.12	0.61
Dissolved organic carbon	mg/L	4.3	3.6	5.6	3.8	4.5	10	13	7.8	4.1	0.44	5
Fluoride (F)	mg/L	0.029	0.034	0.04	0.029	0.034	0.039	0.045	0.041	0.038	0.041	0.04
Magnesium (Mg)	mg/L	0.52	1.2	0.68	0.93	0.89	0.68	1.2	1.7	0.94	0.74	0.66
Nitrates (NO ⁻³)	mg/L	ND	ND	ND	ND	ND	ND	ND	0.041	0.079	0.062	ND
Nitrites (NO ⁻²)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ammoniacal nitrogen (NH ₄ ⁺ and NH ₃)	mg/L	ND	ND	ND	ND	ND	ND	0.027	0.041	ND	ND	ND
Potassium (K)	mg/L	0.26	0.67	0.43	0.57	0.53	0.25	0.33	0.52	0.55	0.31	0.48
Sodium (Na)	mg/L	0.57	0.69	0.67	0.68	0.62	0.58	0.58	0.68	0.62	0.66	0.74
Total dissolved solids	mg/L	36	43	49	29	35	41	74	65	43	47	39
Suspended solids	mg/L	1.4	0.4	0.8	1.6	1.6	3.2	1.2	1.2	0.6	1	1.2

Turbidity	NTU	0.62	0.37	0.52	0.7	0.84	1.9	0.89	2	0.44	0.91	0.54
Total phosphorus	mg/L	0.0081	0.0072	0.0082	0.0086	0.0083	0.017	0.017	0.022	0.0071	0.013	0.0076
Trace metals in water												
Elements	Units	Stations										
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7	Lake Doré
Aluminum (Al)	mg/L	0.018	0.011	0.009	0.017	0.025	0.055	0.04	0.093	0.018	0.048	0.017
Antimony (Sb)	mg/L	0.000046	0.000025	0.000028	0.000034	0.000033	0.000032	0.000031	0.000026	0.000029	0.000028	0.000035
Silver (Ag)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic (As)	mg/L	0.00013	0.000097	0.00011	ND	0.0001	0.00022	0.00023	0.00026	0.0001	0.0002	0.00012
Barium (Ba)	mg/L	0.0044	0.0069	0.007	0.0054	0.0048	0.011	0.0058	0.014	0.0051	0.009	0.0057
Beryllium (Be)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron (B)	mg/L	0.0025	0.0041	0.0034	0.0032	0.0036	0.0046	0.0055	0.0059	0.0043	0.0046	0.0032
Cadmium (Cd)	mg/L	0.0000073	ND	ND	ND	ND	ND	ND	0.000012	ND	0.000012	ND
Chrome (Cr)	mg/L	0.000061	ND	0.000059	ND	0.000053	0.00015	0.00013	0.00015	0.000047	0.00014	0.000069
Cobalt (Co)	mg/L	0.000014	0.00001	0.000021	0.000019	0.00003	0.00024	0.00011	0.00048	0.000048	0.00015	0.000017
Copper (Cu)	mg/L	0.00024	0.00022	0.00024	0.00023	0.00028	0.00039	0.00026	0.00031	0.00029	0.00041	0.00043
Iron (Fe)	mg/L	0.0074	0.0078	0.067	0.011	0.038	0.67	0.39	1.2	0.032	0.52	0.035
Manganese (Mn)	mg/L	0.0049	0.0031	0.014	0.0076	0.0074	0.048	0.015	0.21	0.011	0.023	0.0065
Mercury (Hg)	mg/L	ND	ND	ND	ND	ND	ND	0.0000021	ND	ND	ND	ND
Molybdenum (Mo)	mg/L	0.000044	0.000094	0.000057	0.000046	0.000042	0.00014	0.00005	0.000078	0.000052	0.00014	0.00006
Nickel (Ni)	mg/L	0.00017	0.00015	0.00016	0.00011	0.00025	0.00046	0.00039	0.00046	0.00029	0.00048	0.00024
Lead (Pb)	mg/L	0.000023	0.00001	0.000015	0.000022	0.000027	0.00014	0.00013	0.0002	0.000036	0.000085	0.000027
Selenium (Se)	mg/L	ND	ND	ND	ND	0.000056	ND	ND	ND	ND	0.000056	ND
Strontium (Sr)	mg/L	0.018	0.028	0.061	0.019	0.019	0.02	0.026	0.044	0.022	0.026	0.033
Uranium (U)	mg/L	0.0000081	0.000029	0.000015	0.000008	0.000011	0.00002	0.000019	0.000031	0.00001	0.000024	0.000027

Vanadium (V)	mg/L	0.000061	0.000092	0.000053	ND	0.000056	0.00021	0.00029	0.00034	0.000076	0.00019	0.000071
Zinc (Zn)	mg/L	0.0028	ND	ND	ND	ND	0.002	0.0011	0.0023	0.00067	0.0031	0.00058

Table 13. Water quality test results – September 2022

Surface water parameters												
Parameters	Units	Stations										
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7	Lake Doré
Conductivity	µS/cm	0.039	0.061	0.056	0.037	0.046	0.035	0.058	0.066	0.047	0.038	0.052
Total alkalinity (CaCO ₃)	mg/L	12	25	24	12	16	13	26	29	15	15	21
Calcium (Ca)	mg/L	6.3	9.7	10	5.3	7.3	6	10	12	7.5	7	8.5
Chloride (Cl)	mg/L	0.26	0.33	0.33	0.39	0.34	0.26	0.41	0.32	0.33	0.26	0.63
Dissolved organic carbon	mg/L	4.3	3.8	6.8	3.7	4.9	12	11	9.4	5.7	12	5.4
Fluoride (F)	mg/L	0.034	0.039	0.043	0.037	0.05	0.043	0.048	0.045	0.042	0.044	0.04
Magnesium (Mg)	mg/L	0.57	1.4	0.76	1.1	1.1	0.88	1.2	1.3	0.98	0.87	0.76
Nitrates (NO ⁻³)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nitrites (NO ⁻²)	mg/L	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Ammoniacal nitrogen (NH ₄ ⁺ and NH ₃)	mg/L	0.048	0.046	0.054	0.041	0.049	0.051	0.083	0.062	0.056	0.055	0.056
Potassium (K)	mg/L	0.27	0.75	0.48	0.65	0.61	0.5	0.55	0.52	0.58	0.49	0.53
Sodium (Na)	mg/L	0.53	0.65	0.65	0.68	0.59	0.59	0.56	0.59	0.61	0.58	0.72
Total dissolved solids	mg/L	50	71	68	57	49	84	83	83	62	70	81

Suspended solids	mg/L	1	1.1	0.7	2.1	0.6	1.8	0.72	0.82	1.3	3.3	4.9
Turbidity	NTU	0.5	0.37	0.46	0.7	0.54	1.1	0.7	0.98	0.57	1.3	0.052
Total phosphorus	mg/L	0.0064	0.0048	0.0079	0.0074	0.0075	0.016	0.01	0.0095	0.0069	0.018	0.0046
Trace metals in water												
Elements	Units	Stations										
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7	Lake Doré
Aluminum (Al)	mg/L	0.021	0.015	0.025	0.019	0.031	0.099	0.043	0.032	0.05	0.13	0.022
Antimony (Sb)	mg/L	0.000047	0.000032	0.000041	0.000074	0.00003	0.00003	0.00004	0.000031	0.000033	0.000037	0.000037
Silver (Ag)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic (As)	mg/L	0.00014	ND	0.00013	ND	ND	0.00022	ND	0.00018	ND	0.00022	ND
Barium (Ba)	mg/L	0.0044	0.007	0.0077	0.0055	0.005	0.012	0.0067	0.0079	0.0053	0.012	0.0059
Beryllium (Be)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron (B)	mg/L	0.0025	0.0039	0.0035	0.0032	0.0039	0.0049	0.0043	0.005	0.0039	0.0048	0.0031
Cadmium (Cd)	mg/L	ND	ND	ND	ND	ND	ND	ND	0.000031	0.000006	0.000013	ND
Chrome (Cr)	mg/L	ND	ND	ND	ND	0.000082	0.00019	0.00011	0.00013	0.000062	0.00018	ND
Cobalt (Co)	mg/L	0.000013	0.000013	0.000027	0.000024	0.000034	0.00023	0.000076	0.0001	0.000076	0.00036	0.000023
Copper (Cu)	mg/L	0.00015	0.00017	0.00022	0.00016	0.00027	0.00043	0.00018	0.00035	0.00029	0.00058	0.00044
Iron (Fe)	mg/L	0.0067	0.013	0.086	0.015	0.03	0.62	0.28	0.31	0.058	0.68	0.043
Manganese (Mn)	mg/L	0.0036	0.0027	0.012	0.011	0.0048	0.037	0.0085	0.021	0.017	0.049	0.0053
Mercury (Hg)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum (Mo)	mg/L	0.000049	0.00011	0.000055	0.000053	0.00005	0.00013	0.000049	0.000063	0.00005	0.00014	0.00007
Nickel (Ni)	mg/L	0.00012	ND	ND	ND	0.00031	0.00064	0.00044	0.00037	0.00044	0.00067	0.0003
Lead (Pb)	mg/L	0.000021	0.000016	0.000025	0.000029	0.000027	0.00015	0.000072	0.000058	0.000064	0.00017	0.000028
Selenium (Se)	mg/L	ND	0.000052	0.00007	ND	ND	ND	ND	ND	ND	0.000086	ND
Strontium (Sr)	mg/L	0.017	0.028	0.059	0.019	0.019	0.021	0.021	0.028	0.02	0.023	0.034

Uranium (U)	mg/L	0.000011	0.000003	0.000002	0.000009	0.000012	0.000024	0.00001	0.000015	0.000017	0.000003	ND
Vanadium (V)	mg/L	0.000074	0.00012	0.0001	0.000081	0.000087	0.00027	0.00016	0.00016	0.00012	0.00033	0.0001
Zinc (Zn)	mg/L	ND	ND	ND	ND	ND	0.0027	0.0014	0.00089	0.00089	0.0036	0.00063

Table 14. Water quality test results – December 2022

Surface water parameters												
Parameters	Units	Stations										
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7	Lake Doré
Conductivity	µS/cm	0.028	0.063	0.051	0.039	0.045	0.021	0.058	0.07	0.05	0.032	0.052
Total alkalinity (CaCO ₃)	mg/L	9.8	29	29	14	21	5.3	29	31	22	8	23
Calcium (Ca)	mg/L	2.9	8.4	7.1	5	6.6	2.7	8.1	11	7.3	5	9
Chloride (Cl)	mg/L	1.2	1.8	1.3	2.5	2	1.8	0.71	0.39	1.5	2	3.4
Dissolved organic carbon	mg/L	5.5	3.6	7.2	3.6	4.1	8.9	6.6	6.1	4.8	7.4	5.1
Fluoride (F)	mg/L	0.029	0.036	0.046	0.03	0.032	0.04	0.033	0.031	0.034	0.03	0.035
Magnesium (Mg)	mg/L	0.41	1.4	0.78	1.1	0.88	0.56	1.2	1.4	1	0.7	0.83
Nitrates (NO ⁻³)	mg/L	0.17	0.17	0.2	0.17	0.22	0.27	0.14	0.073	0.22	0.25	0.28
Nitrites (NO ⁻²)	mg/L	ND	ND	0.021	ND	0.025						
Ammoniacal nitrogen (NH ₄ ⁺ and NH ₃)	mg/L	ND	0.033	ND	0.074	0.054	0.021	ND	0.035	0.031	ND	ND
Potassium (K)	mg/L	0.12	0.64	0.48	0.58	0.61	0.65	0.74	0.68	0.61	0.65	0.54
Sodium (Na)	mg/L	0.48	0.48	0.51	0.49	0.59	0.61	0.52	0.49	0.5	0.63	0.65

Total dissolved solids	mg/L	42	60	54	32	36	40	50	76	48	64	46
Suspended solids	mg/L	5.7	1.2	0.92	0.9	0.8	1.1	0.7	1.9	0.71	0.9	1.5
Turbidity	NTU	0.69	0.4	0.58	0.57	0.56	0.64	0.65	0.77	0.51	0.58	0.44
Total phosphorus	mg/L	0.022	0.013	0.013	0.0093	0.0094	0.016	0.011	0.011	0.01	0.012	0.0088
Trace metals in water												
Elements	Units	Stations										
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7	Lake Doré
Aluminum (Al)	mg/L	0.2	0.0081	0.079	0.007	0.023	0.18	0.036	0.045	0.021	0.12	0.02
Antimony (Sb)	mg/L	0.000042	0.000024	0.000037	0.000025	0.000028	0.000034	0.000031	0.00003	0.000028	0.00003	0.000041
Silver (Ag)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic (As)	mg/L	0.00011	0.0001	0.00011	0.000085	ND	0.00012	0.000095	0.00011	0.000094	0.00011	ND
Barium (Ba)	mg/L	0.0065	0.0075	0.0074	0.0065	0.006	0.0088	0.0058	0.0064	0.0056	0.0078	0.0061
Beryllium (Be)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron (B)	mg/L	0.0018	0.0048	0.0033	0.0037	0.0044	0.0036	0.0036	0.0041	0.004	0.0035	0.0039
Cadmium (Cd)	mg/L	0.000013	ND	0.0000063	ND	ND	0.000021	ND	ND	ND	0.000011	ND
Chrome (Cr)	mg/L	0.00025	0.000047	0.00018	ND	ND	0.00023	0.000089	0.000095	0.000086	0.00018	0.000082
Cobalt (Co)	mg/L	0.00019	0.000025	0.000056	0.00002	0.000068	0.00023	0.00011	0.000069	0.000051	0.00014	0.00003
Copper (Cu)	mg/L	0.00045	0.00023	0.00039	0.00023	0.00017	0.00066	0.00032	0.00033	0.00034	0.00064	0.0005
Iron (Fe)	mg/L	0.038	0.032	0.13	0.035	0.082	0.29	0.23	0.17	0.093	0.31	0.1
Manganese (Mn)	mg/L	0.0054	0.024	0.013	0.024	0.041	0.019	0.023	0.013	0.021	0.013	0.036
Mercury (Hg)	mg/L	0.0000024	ND	ND	ND	ND	0.0000027	ND	ND	ND	ND	ND
Molybdenum (Mo)	mg/L	0.000014	0.000075	0.000035	0.00003	0.000034	0.00014	0.000032	0.000058	0.000035	0.000074	0.000049
Nickel (Ni)	mg/L	0.00042	0.00028	0.00034	0.00022	0.00023	0.00043	0.00041	0.00033	0.00053	0.00042	0.00028
Lead (Pb)	mg/L	0.0002	0.000021	0.00007	0.000021	0.000028	0.00015	0.000053	0.000079	0.000023	0.0001	0.000043

Selenium (Se)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Strontium (Sr)	mg/L	0.012	0.024	0.043	0.017	0.017	0.011	0.015	0.024	0.017	0.015	0.033
Uranium (U)	mg/L	0.000037	0.000022	0.000025	0.0000053	0.000009	0.000025	0.0000091	0.000015	0.000011	0.000021	0.000027
Vanadium (V)	mg/L	0.00014	0.000058	0.000099	ND	0.000053	0.0002	0.000067	0.00011	ND	0.00015	0.000071
Zinc (Zn)	mg/L	0.0027	0.00064	0.0016	0.0005	0.00059	0.0046	0.0019	0.0015	0.00081	0.0041	0.00076

RESULTS – 2023 DATA

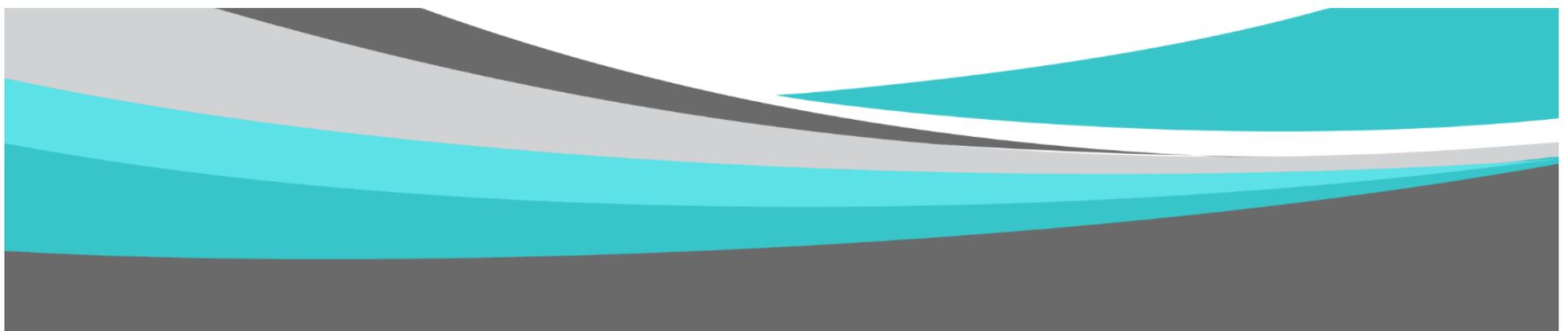


Table 15. Water quality test results – June 2023

Surface water parameters												
Parameters	Units	Stations										
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7	Lake Doré
Conductivity	µS/cm	0.037	0.061	0.057	0.038	0.045	0.034	0.056	0.087	0.050	0.051	0.049
Total alkalinity (CaCO ₃)	mg/L	12	24	26	13	16	12	26	41	17	21	17
Calcium (Ca)	mg/L	6.3	9.9	10	5.5	7.1	5.2	10	16	7.9	8.5	8.2
Chloride (Cl)	mg/L	0.20	0.29	0.22	0.28	0.29	0.28	0.076	0.17	0.28	0.22	0.53
Dissolved organic carbon	mg/L	3.8	3.3	5.3	3.5	4.5	9.0	9.4	7.0	3.9	6.0	4.7
Fluoride (F)	mg/L	0.024	0.029	0.031	0.026	0.029	0.037	0.042	0.04	0.033	0.035	0.028
Magnesium (Mg)	mg/L	0.57	1.4	0.72	1.1	1	0.83	1.3	1.6	1.1	0.92	0.76
Nitrates (NO ⁻³)	mg/L	ND	ND	ND	ND	ND	ND	ND	0.047	0.097	0.080	0.030
Nitrites (NO ⁻²)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ammoniacal nitrogen (NH ₄ ⁺ and NH ₃)	mg/L	ND	ND	ND	ND	ND	ND	0.031	0.030	ND	ND	ND
Potassium (K)	mg/L	0.3	0.76	0.56	0.67	0.62	0.7	0.35	0.66	0.66	0.68	0.57
Sodium (Na)	mg/L	0.54	0.65	0.66	0.69	0.59	0.66	0.63	0.69	0.6	0.73	0.71
Total dissolved solids	mg/L	35	47	57	45	43	57	63	76	48	220	62
Suspended solids	mg/L	1.4	1.0	0.83	1.6	0.82	1.8	0.90	0.84	0.22	15	0.30
Turbidity	NTU	0.73	0.33	0.42	0.81	0.54	1.3	0.89	1.2	0.19	0.62	0.41

Total phosphorus	mg/L	0.011	0.0054	0.0059	0.0085	0.0062	0.016	0.016	0.013	0.0056	0.011	0.0056
Trace metals in water												
Elements	Units	Stations										
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7	Lake Doré
Aluminum (Al)	mg/L	0.035	0.019	0.027	0.035	0.038	0.075	0.046	0.045	0.021	0.066	0.03
Antimony (Sb)	mg/L	0.000039	0.000026	0.000031	0.000031	0.00003	0.000036	0.000034	0.000025	0.000026	0.000027	0.000036
Silver (Ag)	mg/L	ND										
Arsenic (As)	mg/L	0.00012	0.000085	0.000097	ND	0.000092	0.00018	0.00017	0.00022	0.0001	0.00015	0.00011
Barium (Ba)	mg/L	0.0042	0.0069	0.006	0.0055	0.0046	0.01	0.0065	0.0098	0.0048	0.01	0.0054
Beryllium (Be)	mg/L	ND										
Boron (B)	mg/L	0.0028	0.0047	0.0034	0.0038	0.0041	0.0052	0.0054	0.0064	0.0044	0.0052	0.0037
Cadmium (Cd)	mg/L	ND	0.00001	ND								
Chrome (Cr)	mg/L	ND	ND	0.000082	ND	0.000053	0.00016	0.000086	ND	ND	0.00011	0.000057
Cobalt (Co)	mg/L	0.000024	0.000014	0.000024	0.000023	0.000047	0.00026	0.00017	0.00022	0.00004	0.00031	0.000019
Copper (Cu)	mg/L	0.00021	0.00019	0.00029	0.00022	0.00031	0.0006	0.00029	0.00027	0.00028	0.0005	0.00044
Iron (Fe)	mg/L	0.013	0.01	0.072	0.021	0.045	0.54	0.51	0.74	0.029	0.44	0.033
Manganese (Mn)	mg/L	0.0047	0.0026	0.015	0.0061	0.0091	0.043	0.033	0.081	0.0087	0.048	0.003
Mercury (Hg)	mg/L	ND										
Molybdenum (Mo)	mg/L	0.000038	0.00009	0.000066	0.000045	0.000042	0.00018	0.00006	0.000097	0.000046	0.00016	0.000058
Nickel (Ni)	mg/L	0.00014	0.0002	0.00025	0.00019	0.00033	0.00048	0.0004	0.00038	0.0003	0.00044	0.00027
Lead (Pb)	mg/L	0.000026	ND	0.000019	0.000022	0.000017	0.00014	0.00012	0.0001	0.000028	0.000083	0.000015
Selenium (Se)	mg/L	ND	ND	ND	ND	ND	ND	0.000062	ND	ND	0.000062	ND
Strontium (Sr)	mg/L	0.017	0.028	0.055	0.019	0.018	0.018	0.022	0.036	0.02	0.029	0.031
Uranium (U)	mg/L	0.000011	0.000029	0.000023	0.000011	0.000013	0.000024	0.000017	0.000025	0.000012	0.000028	0.000031
Vanadium (V)	mg/L	0.000087	0.0001	0.000085	0.000086	0.00007	0.00028	0.00027	0.00025	0.000079	0.00023	0.000088

Zinc (Zn)	mg/L	0.00085	ND	ND	ND	ND	0.002	0.0011	0.00099	0.00057	0.0026	0.00071
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Table 16. Water quality test results – November 2023

Surface water parameters												
Parameters	Units	Stations										
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7	Lake Doré
Conductivity	µS/cm	0.050	0.069	0.062	0.045	0.046	0.047	0.069	0.087	0.057	0.040	0.056
Total alkalinity (CaCO ₃)	mg/L	15	28	26	16	17	16	26	56	21	12	22
Calcium (Ca)	mg/L	8.1	10	10	5.8	6.3	6.7	11	14	8.5	6	8.9
Chloride (Cl)	mg/L	0.23	0.26	0.31	0.25	0.28	0.27	0.35	0.36	0.31	0.36	0.51
Dissolved organic carbon	mg/L	4.0	3.5	5.3	3.4	3.2	6.4	4.7	5.4	4.1	6.5	4.6
Fluoride (F)	mg/L	0.026	0.027	0.028	0.025	0.025	0.027	0.027	0.028	0.028	0.026	0.027
Magnesium (Mg)	mg/L	0.63	1.3	0.76	1.1	1.1	1	0.95	1.5	1	0.73	0.74
Nitrates (NO ⁻³)	mg/L	ND	ND	0.057	ND	0.033	ND	0.097	0.046	0.050	0.080	0.094
Nitrites (NO ⁻²)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ammoniacal nitrogen (NH ₄ ⁺ and NH ₃)	mg/L	0.059	0.030	0.027	0.079	0.068	0.074	0.086	0.024	0.020	0.038	ND
Potassium (K)	mg/L	0.37	0.75	0.59	0.69	0.67	0.96	0.62	0.92	0.66	0.77	0.55
Sodium (Na)	mg/L	0.62	0.66	0.64	0.68	0.66	0.75	0.66	0.71	0.62	0.73	0.71
Total dissolved solids	mg/L	38	49	43	28	34	52	58	56	50	46	51
Suspended solids	mg/L	1.9	0.90	0.62	1.8	1.3	1.4	0.72	1.6	0.50	0.61	0.50

Turbidity	NTU	0.80	0.96	0.75	0.87	0.77	1.8	1.3	0.67	0.46	0.83	0.43
Total phosphorus	mg/L	0.0063	0.0071	ND	0.0057	0.0054	0.0088	0.0047	0.0054	ND	0.0057	0.004
Trace metals in water												
Elements	Units	Stations										
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7	Lake Doré
Aluminum (Al)	mg/L	0.011	0.014	0.021	0.013	0.018	0.051	0.03	0.025	0.021	0.099	0.016
Antimony (Sb)	mg/L	0.000051	0.000033	0.00011	0.000035	0.000045	0.00003	0.000029	0.000028	0.00003	0.000035	0.000036
Silver (Ag)	mg/L	ND	ND	0.0000033	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic (As)	mg/L	ND	ND	0.00009	0.000093	ND	0.0001	0.0001	ND	ND	ND	0.0001
Barium (Ba)	mg/L	0.0064	0.0078	0.0068	0.0065	0.0061	0.0076	0.0051	0.0068	0.0057	0.0089	0.0062
Beryllium (Be)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron (B)	mg/L	0.0033	0.0047	0.0037	0.0038	0.0036	0.0044	0.0039	0.0043	0.004	0.0035	0.0036
Cadmium (Cd)	mg/L	ND	ND	ND	ND	ND	0.0000077	ND	ND	ND	0.0000063	ND
Chrome (Cr)	mg/L	ND	0.000092	0.00013	0.000055	0.00007	0.00014	ND	0.000086	ND	0.00023	ND
Cobalt (Co)	mg/L	0.000021	0.000045	0.000038	0.000039	0.000042	0.00026	0.00019	0.000067	0.000027	0.00014	0.000024
Copper (Cu)	mg/L	0.00025	0.00028	0.00046	0.00023	0.00027	0.00039	0.00026	0.00029	0.00031	0.00062	0.00048
Iron (Fe)	mg/L	0.019	0.038	0.18	0.046	0.061	0.81	0.34	0.2	0.052	0.39	0.063
Manganese (Mn)	mg/L	0.022	0.048	0.013	0.033	0.016	0.033	0.068	0.014	0.0099	0.016	0.031
Mercury (Hg)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Molybdenum (Mo)	mg/L	0.00003	0.000085	0.000036	0.000043	0.000036	0.000027	0.000029	0.000063	0.000038	0.000081	0.000055
Nickel (Ni)	mg/L	0.00017	0.00031	0.00038	0.00045	0.00055	0.00045	0.00038	0.00039	0.0013	0.00055	0.0018
Lead (Pb)	mg/L	0.000023	0.000018	0.000037	0.000027	0.000024	0.000051	0.000044	0.000033	0.000015	0.000074	0.000023
Selenium (Se)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Strontium (Sr)	mg/L	0.021	0.029	0.055	0.02	0.021	0.018	0.019	0.029	0.02	0.019	0.035
Uranium (U)	mg/L	0.0000075	0.000026	0.000019	0.000006	0.0000085	0.000014	0.0000079	0.000016	0.00001	0.00002	0.000028

Vanadium (V)	mg/L	0.000072	0.000085	0.000079	0.000059	0.000059	0.0002	0.000091	0.00011	0.000056	0.00019	0.000076
Zinc (Zn)	mg/L	0.001	0.0043	0.0032	0.0013	0.0023	0.0039	0.0011	0.00093	0.0096	0.0089	0.0017

RESULTS – 2024 DATA



Table 17. Water quality test results – April 2024

Surface water parameters												
Parameters	Units	Stations										
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7	Lake Doré
Conductivity	µS/cm	0.038	0.059	0.045	0.038	0.058	0.035	0.043	0.068	0.047	0.028	0.048
Total alkalinity (CaCO ₃)	mg/L	12	25	21	13	22	8.9	12	28	20	8.7	29
Calcium (Ca)	mg/L	6.7	9.1	7.6	4.8	8.6	4.6	8	10	6.9	4.2	7.7
Chloride (Cl)	mg/L	0.16	0.2	0.22	0.2	0.31	0.19	0.17	0.21	0.23	0.19	0.34
Dissolved organic carbon	mg/L	3.4	3.1	4.4	3	4.2	4.2	4.7	4	4	4.3	4.3
Fluoride (F)	mg/L	0.014	0.016	0.021	0.016	0.016	0.011	0.018	0.018	ND	0.029	0.016
Magnesium (Mg)	mg/L	0.6	1.3	0.59	0.91	1.2	0.7	0.77	1.2	0.91	0.5	0.66
Nitrates (NO ⁻³)	mg/L	ND	0.025	0.054	0.053	0.12	0.067	0.031	0.036	0.059	0.079	0.089
Nitrites (NO ⁻²)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ammoniacal nitrogen (NH ₄ ⁺ and NH ₃)	mg/L	ND	ND	ND	0.027	ND						
Potassium (K)	mg/L	0.3	0.72	0.44	0.53	0.55	0.52	0.49	0.59	0.55	0.46	0.45
Sodium (Na)	mg/L	0.56	0.57	0.48	0.54	0.62	0.49	0.47	0.48	0.52	0.45	0.53
Total dissolved solids	mg/L	32	33	47	38	60	14	33	71	45	32	80
Suspended solids	mg/L	1.4	2	0.51	0.93	1	0.9	3.4	0.41	0.61	1.9	0.2
Turbidity	NTU	0.45	0.64	0.3	0.82	0.55	0.68	0.6	0.37	0.45	0.51	0.35

Total phosphorus	mg/L	0.0051	0.01	0.0046	0.0067	0.0092	0.0076	0.0059	0.0068	0.0063	0.0082	0.0041
Trace metals in water												
Elements	Units	Stations										
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7	Lake Doré
Aluminum (Al)	mg/L	0.023	0.052	0.034	0.016	0.078	0.067	0.084	0.025	0.035	0.096	0.034
Antimony (Sb)	mg/L	0.000048	0.000034	0.000041	0.000026	0.000046	0.000025	0.000042	0.000045	0.000036	0.000037	0.000039
Silver (Ag)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Arsenic (As)	mg/L	0.00011	ND	0.000085	ND	0.0001	ND	0.000096	0.000082	0.000086	ND	0.000087
Barium (Ba)	mg/L	0.0053	0.0067	0.0056	0.0054	0.0076	0.0055	0.0049	0.0061	0.005	0.0062	0.0049
Beryllium (Be)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Boron (B)	mg/L	0.0025	0.0046	0.0032	0.0031	0.003	0.0024	0.0042	0.0041	0.0038	0.0025	0.0029
Cadmium (Cd)	mg/L	ND	ND	ND	ND	ND	0.0000095	0.0000098	ND	ND	0.0000072	ND
Chrome (Cr)	mg/L	ND	0.0001	0.00013	0.000049	0.00018	0.00016	0.00015	0.000092	0.000091	0.00018	0.0001
Cobalt (Co)	mg/L	0.000028	0.000045	0.000031	0.00002	0.00016	0.00017	0.00015	0.000037	0.000035	0.00012	0.000029
Copper (Cu)	mg/L	0.0002	0.00031	0.00026	0.00017	0.00047	0.00035	0.00041	0.00025	0.00028	0.00042	0.00037
Iron (Fe)	mg/L	0.014	0.054	0.12	0.018	0.13	0.29	0.27	0.072	0.029	0.2	0.057
Manganese (Mn)	mg/L	0.0052	0.0046	0.0072	0.0073	0.024	0.017	0.019	0.0064	0.0056	0.014	0.0047
Mercury (Hg)	mg/L	ND	ND	ND	ND	ND	0.000002	ND	ND	ND	ND	ND
Molybdenum (Mo)	mg/L	0.000029	0.000086	0.000029	0.000035	0.000043	0.000018	0.000035	0.000076	0.000039	0.000064	0.000042
Nickel (Ni)	mg/L	0.00017	0.00028	0.00022	0.00018	0.00045	0.00036	0.00038	0.00026	0.00032	0.00031	0.00037
Lead (Pb)	mg/L	0.000033	0.000066	0.000028	0.000023	0.000069	0.000049	0.00014	0.000032	0.000026	0.000074	0.000026
Selenium (Se)	mg/L	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Strontium (Sr)	mg/L	0.017	0.022	0.039	0.016	0.021	0.012	0.015	0.021	0.017	0.013	0.029
Uranium (U)	mg/L	0.0000084	0.000041	0.000017	0.0000086	0.000019	0.000016	0.000017	0.000015	0.000011	0.000018	0.000024
Vanadium (V)	mg/L	0.000063	0.00014	0.000066	<0.050	0.00013	0.00011	0.00017	0.000087	0.000065	0.00015	0.000065

Zinc (Zn)	mg/L	0.00079	0.00064	0.00078	0.00061	0.0019	0.0025	0.0013	0.00075	0.00065	0.0023	0.0011
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RESULTS – 2025 DATA

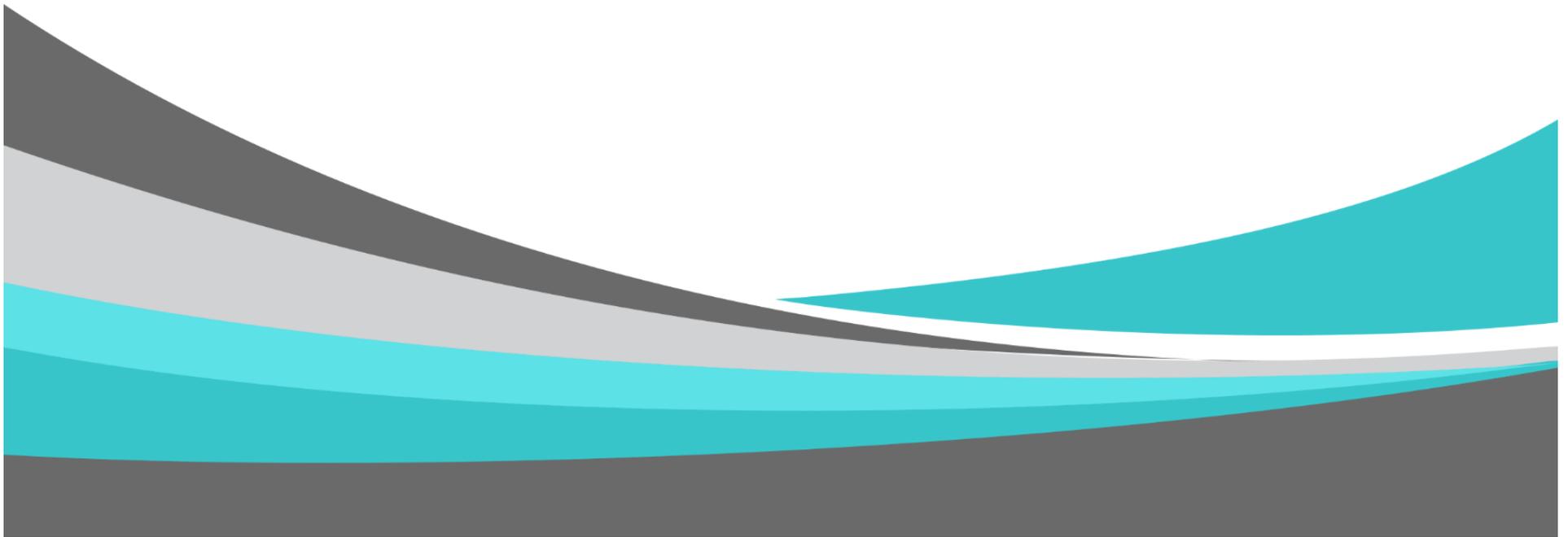


Table 18. Water quality test results – May 2025

Surface water parameters												
Parameters	Units	Stations										
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7	Lake Doré
Conductivity	µS/cm	0.051	0.065	0.047	0.033	0.038	0.06	0.056	0.039	0.042	0.023	0.05
Total alkalinity (CaCO ₃)	mg/L	20	28	20	11	13	27	26	15	15	7.2	21
Calcium (Ca)	mg/L	8.6	11	7.3	4.8	6.4	9.6	9.3	5.3	6.1	3.4	8.8
Chloride (Cl)	mg/L	0.24	0.25	0.26	0.23	0.18	0.24	0.25	0.23	0.25	0.24	0.54
Dissolved organic carbon	mg/L	5.4	5.1	4.7	6.4	3.8	3.4	5	3.5	3.7	6.7	4.9
Fluoride (F)	mg/L	0.026	0.026	0.023	0.023	0.02	0.023	0.029	0.022	0.018	0.022	0.022
Magnesium (Mg)	mg/L	0.84	1.3	1	0.57	0.56	1.4	0.66	1	1.1	0.49	0.75
Nitrates (NO ⁻³)	mg/L	0.05	0.043	0.049	0.061	0.023	0.052	0.082	0.053	0.085	<0.02	0.072
Nitrites (NO ⁻²)	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02
Ammoniacal nitrogen (NH ₄ ⁺ and NH ₃)	mg/L	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.028	0.029	<0.02	<0.02
Potassium (K)	mg/L	0.58	0.75	0.64	0.66	0.3	0.75	0.57	0.61	0.63	0.6	0.58
Sodium (Na)	mg/L	0.55	0.65	0.63	0.61	0.59	0.68	0.63	0.66	0.7	0.57	0.74
Total dissolved solids	mg/L	48	40	27	43	24	37	49	21	38	29	42
Suspended solids	mg/L	1	0.5	0.7	0.9	0.9	0.6	0.8	1.9	0.9	2.3	0.8
Turbidity	NTU	0.32	0.15	0.34	0.54	0.52	0.22	0.66	0.56	0.58	0.8	0.21

Total phosphorus	mg/L	0.0046	0.0054	0.0076	0.0088	0.0061	0.0062	0.0077	0.0057	0.0088	0.011	0.0041
Trace metals in water												
Elements	Units	Stations										
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7	Lake Doré
Aluminum (Al)	mg/L	0.043	0.032	0.041	0.094	0.024	0.016	0.042	0.022	0.032	0.120	0.030
Antimony (Sb)	mg/L	0.000035	0.000041	0.000028	0.000033	0.000037	0.000025	0.000026	0.000026	0.000030	0.000035	0.000036
Silver (Ag)	mg/L	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003	0.000003
Arsenic (As)	mg/L	0.00011	0.00010	0.00010	0.00013	0.00010	0.000085	0.00010	0.000085	0.000092	0.00013	0.00010
Barium (Ba)	mg/L	0.0054	0.0075	0.0056	0.0080	0.0054	0.0076	0.0070	0.0064	0.0067	0.0081	0.0065
Beryllium (Be)	mg/L	0.000010	0.000010	0.000010	0.000012	0.000010	0.000010	0.000010	0.000010	0.000010	0.000013	0.000010
Boron (B)	mg/L	0.0049	0.0058	0.0042	0.0046	0.0028	0.0046	0.0034	0.0037	0.0037	0.0045	0.0038
Cadmium (Cd)	mg/L	0.000006	0.000006	0.000007	0.000010	0.000006	0.000006	0.000006	0.000006	0.000006	0.000012	0.000006
Chrome (Cr)	mg/L	0.000091	0.000062	0.000070	0.000170	0.000040	0.000058	0.000096	0.000040	0.000068	0.000190	0.000083
Cobalt (Co)	mg/L	0.000065	0.000051	0.000053	0.000130	0.000024	0.000020	0.000050	0.000034	0.000077	0.000180	0.000038
Copper (Cu)	mg/L	0.00041	0.00043	0.00035	0.00070	0.00022	0.00023	0.00030	0.00023	0.00031	0.00072	0.00047
Iron (Fe)	mg/L	0.130	0.110	0.050	0.210	0.012	0.011	0.170	0.033	0.064	0.250	0.077
Manganese (Mn)	mg/L	0.0096	0.0097	0.0110	0.0130	0.0040	0.0029	0.0390	0.0170	0.0170	0.0150	0.0290
Mercury (Hg)	mg/L	0.000002	0.000002	0.000002	0.000002	0.000002	0.000002	0.000002	0.000002	0.000002	0.000003	0.000002
Molybdenum (Mo)	mg/L	0.000042	0.0001	0.000042	0.0001	0.000032	0.000082	0.000052	0.000037	0.000042	0.000120	0.000059
Nickel (Ni)	mg/L	0.00038	0.00027	0.00036	0.00036	0.00014	0.00022	0.00019	0.00015	0.00024	0.00038	0.00032
Lead (Pb)	mg/L	0.000039	0.000036	0.000038	0.000081	0.000029	0.000010	0.000032	0.000021	0.000033	0.000130	0.000024
Selenium (Se)	mg/L	0.000050	0.000050	0.000050	0.000050	0.000050	0.000050	0.000050	0.000050	0.000050	0.000053	0.000053
Strontium (Sr)	mg/L	0.016	0.025	0.019	0.017	0.017	0.028	0.051	0.018	0.019	0.013	0.034
Uranium (U)	mg/L	0.000010	0.000015	0.000014	0.000024	0.000010	0.000024	0.000022	0.000008	0.000011	0.000024	0.000030
Vanadium (V)	mg/L	0.000093	0.00015	0.000084	0.00024	0.000082	0.000085	0.0001	0.000052	0.000089	0.00025	0.000089

Zinc (Zn)	mg/L	0.0010	0.0036	0.0011	0.0033	0.00074	0.00051	0.00072	0.0025	0.0015	0.0037	0.00097
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Table 19. Water quality test results – September 2025

Surface water parameters												
Parameters	Units	Stations										
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7	Lake Doré
Conductivity	µS/cm	0.070	0.094	0.071	0.057	0.040	0.062	0.065	0.041	0.048	0.039	0.053
Total alkalinity (CaCO ₃)	mg/L	35	46	28	26	15	28	33	17	21	20	23
Calcium (Ca)	mg/L	12	16	10	9.3	6.5	9.7	12	5.7	7.5	6.1	8.8
Chloride (Cl)	mg/L	0.14	0.12	0.26	0.22	0.17	0.22	0.21	0.22	0.23	0.11	0.53
Dissolved organic carbon	mg/L	7.4	5.5	2.9	8.5	4.2	3.7	5.5	4.1	4.3	9.4	5.2
Fluoride (F)	mg/L	0.051	0.040	0.048	0.045	0.029	0.037	0.043	0.032	0.040	0.042	0.039
Magnesium (Mg)	mg/L	1.2	1.9	1.3	1.0	0.54	1.4	0.79	1.2	1.1	0.92	0.72
Nitrates (NO ⁻³)	mg/L	<0.020	0.033	0.23	0.056	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Nitrites (NO ⁻²)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Ammoniacal nitrogen (NH ₄ ⁺ and NH ₃)	mg/L	<0.020	<0.020	<0.020	0.12	<0.020	<0.020	<0.020	<0.020	<0.020	0.20	<0.020
Potassium (K)	mg/L	0.47	0.59	0.85	0.92	0.30	0.77	0.55	0.65	0.64	0.71	0.59
Sodium (Na)	mg/L	0.67	0.78	0.81	0.76	0.60	0.73	0.76	0.74	0.63	0.55	0.78
Total dissolved solids	mg/L	100	64	44	57	43	43	57	48	44	52	29
Suspended solids	mg/L	1.3	3.0	6.0	3.6	1.3	0.50	2.8	1.5	0.50	9.0	0.60

Turbidity	NTU	0.91	0.82	0.18	2.7	0.60	0.14	0.52	0.88	0.35	5.0	0.28
Total phosphorus	mg/L	0.0095	0.0042	0.0036	0.01	0.0034	0.0044	0.0051	0.0036	0.033	0.019	<0.0020
Trace metals in water												
Elements	Units	Stations										
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7	Lake Doré
Aluminum (Al)	mg/L	0.013	0.013	0.018	0.082	0.023	0.014	0.011	0.015	0.018	0.085	0.016
Antimony (Sb)	mg/L	0.000018	0.000017	0.000027	0.000023	0.000044	0.000027	0.000026	0.000030	0.000029	0.000023	0.000036
Silver (Ag)	mg/L	<0.000003	<0.000003	<0.000003	<0.000003	<0.000003	<0.000003	<0.000003	<0.000003	<0.000003	<0.000003	<0.000003
Arsenic (As)	mg/L	<0.000080	<0.000080	<0.000080	0.00025	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	<0.000080	0.00012
Barium (Ba)	mg/L	0.0074	0.010	0.0061	0.012	0.0039	0.0070	0.0075	0.0053	0.0047	0.010	0.0056
Beryllium (Be)	mg/L	<0.000010	<0.000010	<0.000010	0.000011	<0.000010	<0.000010	<0.000010	<0.000010	<0.000010	0.000010	<0.000010
Boron (B)	mg/L	0.0041	0.0056	0.0041	0.0052	0.0028	0.0044	0.0038	0.0036	0.0039	0.0047	0.0036
Cadmium (Cd)	mg/L	<0.000006	<0.000006	<0.000006	0.0000091	<0.000006	<0.000006	<0.000006	<0.000006	<0.000006	<0.000006	<0.000006
Chrome (Cr)	mg/L	<0.000040	0.00010	<0.000040	0.00020	0.00011	<0.000040	0.00018	<0.000040	0.00017	0.00020	0.000043
Cobalt (Co)	mg/L	0.00012	0.000079	0.000065	0.00082	0.000026	0.000011	0.000027	0.000016	0.000026	0.00099	0.000013
Copper (Cu)	mg/L	0.000091	0.00015	0.00028	0.00037	0.00024	0.00023	0.00020	0.00020	0.00027	0.00024	0.00043
Iron (Fe)	mg/L	0.43	0.30	0.44	1.3	0.017	0.0076	0.088	0.012	0.017	2.7	0.022
Manganese (Mn)	mg/L	0.040	0.043	0.020	0.23	0.0068	0.0026	0.017	0.011	0.0049	0.2	0.0038
Mercury (Hg)	mg/L	<0.000002	<0.000002	<0.000002	0.0000024	<0.000002	<0.000002	<0.000002	<0.000002	<0.000002	<0.0000020	<0.0000020
Molybdenum (Mo)	mg/L	0.000026	0.000052	0.000056	0.00014	0.000057	0.00010	0.000069	0.000054	0.000044	0.000034	0.00069
Nickel (Ni)	mg/L	0.00025	0.00031	0.00032	0.00063	0.00034	0.00019	0.0010	0.00014	0.00046	0.00054	0.00030
Lead (Pb)	mg/L	0.000029	0.000024	0.000028	0.00017	0.000039	<0.000010	0.000013	<0.000010	<0.000010	0.00015	0.000010
Selenium (Se)	mg/L	<0.000050	<0.000050	<0.000050	0.000059	0.000051	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050	<0.000050
Strontium (Sr)	mg/L	0.026	0.039	0.027	0.033	0.018	0.028	0.063	0.020	0.019	0.017	0.033
Uranium (U)	mg/L	0.0000039	0.000011	0.0000094	0.000029	0.000011	0.000033	0.000014	0.0000070	0.0000092	0.000019	0.000029

Vanadium (V)	mg/L	0.000066	0.000092	0.000082	0.00044	0.00012	0.00012	0.000060	<0.000050	0.000061	0.00055	0.000098
Zinc (Zn)	mg/L	<0.00050	0.00071	0.00058	0.0016	0.0018	<0.00050	<0.00050	<0.00050	<0.00050	0.0024	<0.00050

Table 20. Water quality test results – November 2025

Surface water parameters												
Parameters	Units	Stations										
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7	Lake Doré
Conductivity	µS/cm	0.072	0.086	0.055	0.042	0.048	0.067	0.064	0.045	0.048	0.035	0.054
Total alkalinity (CaCO ₃)	mg/L	26	34	23	14	17	30	29	17	21	14	23
Calcium (Ca)	mg/L	11	13	8.1	5.9	6.9	9.8	11	5.9	7.1	5.1	8.1
Chloride (Cl)	mg/L	0.44	0.45	0.27	0.46	0.19	0.26	0.43	0.26	0.26	0.23	0.55
Dissolved organic carbon	mg/L	5.5	7.2	4.2	10	3.5	3.3	4.6	3.8	3.9	9.3	4.7
Fluoride (F)	mg/L	0.025	0.023	0.014	0.031	0.046	0.026	0.020	0.024	0.022	0.024	0.019
Magnesium (Mg)	mg/L	0.99	1.6	0.97	0.79	0.56	1.3	0.72	1.1	1.1	0.77	0.76
Nitrates (NO ⁻³)	mg/L	0.086	0.056	0.027	0.080	<0.020	<0.020	0.021	<0.020	0.029	0.022	0.072
Nitrites (NO ⁻²)	mg/L	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
Ammoniacal nitrogen (NH ₄ ⁺ and NH ₃)	mg/L	0.026	<0.020	<0.020	0.022	0.026	<0.020	<0.020	0.053	<0.020	0.074	<0.020
Potassium (K)	mg/L	0.73	0.96	0.63	13	0.30	0.73	0.57	0.66	0.64	0.80	0.55
Sodium (Na)	mg/L	0.68	0.78	0.60	0.71	0.59	0.68	0.71	0.73	0.66	0.59	0.78
Total dissolved solids	mg/L	68	74	50	54	52	61	46	50	45	48	54
Suspended solids	mg/L	1.5	0.20	0.20	1.7	0.90	0.80	0.80	1.8	0.60	3.3	0.60
Turbidity	NTU	1.7	0.87	0.40	2.0	0.90	0.38	0.77	0.97	0.88	1.3	0.80

Total phosphorus	mg/L	0.0066	0.0059	0.0032	0.012	0.0053	0.0035	0.0043	0.0051	0.0059	0.030	0.0042
Trace metals in water												
Elements	Units	Stations										
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7	Lake Doré
Aluminum (Al)	mg/L	0.038	0.023	0.011	0.10	0.0094	0.0074	0.010	0.0075	0.018	0.047	0.013
Antimony (Sb)	mg/L	0.000027	0.00028	0.000027	0.000031	0.000036	0.000023	0.000026	0.000031	0.000024	0.000024	0.000031
Silver (Ag)	mg/L	<0.000003	<0.000003	<0.000003	<0.000003	<0.000003	<0.000003	<0.000003	<0.000003	<0.000003	<0.000003	<0.000003
Arsenic (As)	mg/L	0.00011	0.00012	0.000094	0.00017	0.00013	0.0010	0.00011	0.000095	0.000096	0.00014	0.00012
Barium (Ba)	mg/L	0.0064	0.0065	0.0049	0.0087	0.0053	0.0075	0.0066	0.0068	0.0053	0.0058	0.0055
Beryllium (Be)	mg/L	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Boron (B)	mg/L	0.0042	0.0050	0.0039	0.0050	0.0026	0.0043	0.0035	0.0036	0.0040	0.0041	0.0038
Cadmium (Cd)	mg/L	<0.000006	<0.000006	<0.000006	<0.000006	<0.000006	<0.000006	<0.000006	<0.000006	<0.000006	<0.000006	<0.000006
Chrome (Cr)	mg/L	0.000076	0.000053	<0.00004	0.00012	<0.00004	<0.00004	<0.00004	<0.00004	<0.00004	0.000081	0.000045
Cobalt (Co)	mg/L	0.00020	0.000061	0.000019	0.00024	0.000020	0.000025	0.000021	0.000027	0.000083	0.00019	0.000025
Copper (Cu)	mg/L	0.00032	0.00025	0.00026	0.00055	0.00016	0.00019	0.00023	0.00016	0.00025	0.00028	0.00042
Iron (Fe)	mg/L	0.41	0.25	0.047	0.70	0.022	0.013	0.16	0.036	0.092	0.77	0.064
Manganese (Mn)	mg/L	0.086	0.016	0.0022	0.038	0.024	0.033	0.015	0.037	0.046	0.021	0.034
Mercury (Hg)	mg/L	<0.000002	<0.000002	<0.000002	<0.000002	<0.000002	<0.000002	<0.000002	<0.000002	<0.000002	<0.000002	<0.000002
Molybdenum (Mo)	mg/L	0.000031	0.000061	0.000042	0.00010	0.000036	0.000093	0.000049	0.000045	0.000040	0.000039	0.000059
Nickel (Ni)	mg/L	0.00037	0.00025	0.00036	0.00045	0.00011	0.00018	0.00019	0.00013	0.00029	0.00037	0.00028
Lead (Pb)	mg/L	0.00010	0.000041	<0.000010	0.00015	0.000026	<0.000010	0.000021	0.000019	0.000026	0.000067	0.000025
Selenium (Se)	mg/L	<0.00005	<0.00005	<0.00005	0.000058	0.000053	0.000055	<0.00005	<0.00005	<0.00005	<0.00005	0.000053
Strontium (Sr)	mg/L	0.021	0.028	0.020	0.021	0.018	0.028	0.055	0.020	0.018	0.013	0.032
Uranium (U)	mg/L	0.0000095	0.000013	0.0000085	0.000024	0.0000071	0.000025	0.000015	0.0000059	0.0000083	0.000012	0.000027
Vanadium (V)	mg/L	0.000089	0.00011	<0.000050	0.00029	0.000068	0.000079	0.000060	<0.000050	0.000063	0.00021	0.000073

Zinc (Zn)	mg/L	0.0012	0.00063	<0.00050	0.0044	0.00074	<0.00050	0.0033	0.00085	0.00075	0.0014	<0.00050
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Table 21. Water quality test results – December 2025

Surface water parameters												
Parameters	Units	Stations										
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7	Lake Doré
Conductivity	µS/cm	NA	0.082	0.057	0.043	NA						
Total alkalinity (CaCO ₃)	mg/L	NA	31	23	16	NA						
Calcium (Ca)	mg/L	NA	13	9.0	6.2	NA						
Chloride (Cl)	mg/L	NA	0.41	0.37	0.45	NA						
Dissolved organic carbon	mg/L	NA	7.6	4.7	9.5	NA						
Fluoride (F)	mg/L	NA	0.026	0.032	0.026	NA						
Magnesium (Mg)	mg/L	NA	1.3	1.1	0.81	NA						
Nitrates (NO ⁻³)	mg/L	NA	0.066	0.022	0.11	NA						
Nitrites (NO ⁻²)		NA	<0.020	<0.020	<0.020	NA						
Ammoniacal nitrogen (NH ₄ ⁺ and NH ₃)	mg/L	NA	0.022	<0.020	0.062	NA						
Potassium (K)	mg/L	NA	1.0	0.69	1.2	NA						
Sodium (Na)	mg/L	NA	0.65	0.59	0.68	NA						
Total dissolved solids	mg/L	NA	68	46	51	NA						
Suspended solids	mg/L	NA	0.30	0.80	1.2	NA						
Turbidity	NTU	NA	0.66	0.45	1.0	NA						

Total phosphorus	mg/L	NA	0.0082	0.005	0.0096	NA						
Trace metals in water												
Elements	Units	Stations										
		WQ-L1	WQ-L2	WQ-L4	WQ-L5	WQ-L6	WQ-L7	WQ-S1	WQ-S3	WQ-S4	WQ-S7	Lake Doré
Aluminum (Al)	mg/L	NA	0.035	0.015	0.13	NA						
Antimony (Sb)	mg/L	NA	0.000031	0.000026	0.000031	NA						
Silver (Ag)	mg/L	NA	<0.000003	<0.000003	<0.000003	NA						
Arsenic (As)	mg/L	NA	0.00011	0.00010	0.00014	NA						
Barium (Ba)	mg/L	NA	0.0072	0.0054	0.010	NA						
Beryllium (Be)	mg/L	NA	<0.000010	<0.000010	<0.000010	NA						
Boron (B)	mg/L	NA	0.0045	0.0041	0.0047	NA						
Cadmium (Cd)	mg/L	NA	<0.0000060	<0.0000060	0.000011	NA						
Chrome (Cr)	mg/L	NA	<0.000040	<0.000040	0.00014	NA						
Cobalt (Co)	mg/L	NA	0.000059	0.000029	0.00033	NA						
Copper (Cu)	mg/L	NA	0.00026	0.00022	0.00059	NA						
Iron (Fe)	mg/L	NA	0.26	0.061	0.85	NA						
Manganese (Mn)	mg/L	NA	0.014	0.010	0.051	NA						
Mercury (Hg)	mg/L	NA	<0.0000020	<0.0000020	0.0000022	NA						
Molybdenum (Mo)	mg/L	NA	0.000061	0.000039	0.000086	NA						
Nickel (Ni)	mg/L	NA	0.00024	0.00031	0.00044	NA						
Lead (Pb)	mg/L	NA	0.000050	0.000012	0.00013	NA						
Selenium (Se)	mg/L	NA	<0.000050	<0.000050	0.000054	NA						
Strontium (Sr)	mg/L	NA	0.028	0.021	0.021	NA						
Uranium (U)	mg/L	NA	0.000013	0.0000087	0.000024	NA						
Vanadium (V)	mg/L	NA	0.00012	<0.000050	0.00026	NA						

Zinc (Zn)	mg/L	NA	0.0032	<0.00050	0.0032	NA						
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