

Water Sample Results - General Chemistry and Metals

Parameter	Units	Canadian Drinking Water Guideline	Detection Limit	Lewis Lake (079)
				31-Jul-2008
General Chemistry				
Total Alkalinity (Total as CaCO ₃)	mg/L	-	5	62
Chloride (Cl)	mg/L	250 AO	1	11
Colour	TCU	15 AO	5	6
Hardness (CaCO ₃)	mg/L	500 AO	-	21
Nitrate + Nitrite	mg/L	10	0.05	ND
Nitrite (N)	mg/L	1	0.01	ND
Nitrate (N)	mg/L	10	0.05	ND
Nitrogen (Ammonia Nitrogen)	mg/L	-	0.05	ND
Total Organic Carbon (C)	mg/L	-	0.5	0.5
Orthophosphate (P)	mg/L	-	0.01	0.03
pH	pH	6.5 - 8.5 AO	-	7.8
Reactive Silica (SiO ₂)	mg/L	-	0.5	20
Sulphate (SO ₄)	mg/L	500 AO	2	7
Turbidity	NTU	5 AO	0.1	3.6
Conductivity	uS/cm	-	-	170
Anion Sum	me/L	-	-	1.83
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	-	1	61
Calculated TDS	mg/L	-	1	124
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	-	1	ND
Cation Sum	me/L	-	-	1.98
Ion Balance (% Difference)	%	-	-	3.94
Langelier Index (@ 20C)	N/A	-	-	-0.889
Langelier Index (@ 4C)	N/A	-	-	-1.14
Saturation pH (@ 20C)	N/A	-	-	8.69
Saturation pH (@ 4C)	N/A	-	-	8.94
Calcium (Ca)	mg/L	-	0.1	7.5
Magnesium (Mg)	mg/L	-	0.1	0.5
Phosphorus (P)	mg/L	-	0.1	ND
Potassium (K)	mg/L	-	0.1	4.4
Sodium (Na)	mg/L	200 AO	0.1	33
Bromide (Br)	mg/L	-	0.5	2.6
Fluoride (F)	mg/L	1.5	0.1	2.5
Metals				
Aluminum (Al)	ug/L	-	10	ND
Antimony (Sb)	ug/L	6	2	ND
Arsenic (As)	ug/L	10	2	18
Barium (Ba)	ug/L	1000	5	72
Beryllium (Be)	ug/L	-	2	ND
Bismuth (Bi)	ug/L	-	2	ND
Boron (B)	ug/L	5000	5	35
Cadmium (Cd)	ug/L	5	0.3	ND
Chromium (Cr)	ug/L	50	2	ND
Cobalt (Co)	ug/L	-	1	ND
Copper (Cu)	ug/L	1000 AO	2	ND
Iron (Fe)	ug/L	300 AO	50	140
Lead (Pb)	ug/L	10	0.5	0.7
Manganese (Mn)	ug/L	50 AO	2	60
Molybdenum (Mo)	ug/L	-	2	3
Mercury (Hg)	ug/L	1	0.01	ND
Nickel (Ni)	ug/L	-	2	ND
Selenium (Se)	ug/L	10	2	ND
Silver (Ag)	ug/L	-	0.5	ND
Strontium (Sr)	ug/L	-	5	100
Thallium (Tl)	ug/L	-	0.1	ND
Tin (Sn)	ug/L	-	2	ND
Titanium (Ti)	ug/L	-	2	ND
Uranium (U)	ug/L	20	0.1	0.2
Vanadium (V)	ug/L	-	2	ND
Zinc (Zn)	ug/L	5000 AO	5	ND

Notes:

AO = Aesthetic Objective.

ND = not detected

ND() = not detected at the elevated detection limit shown in brackets ()

All guidelines are health-based MACs or IMACs, unless otherwise indicated.

Shaded values exceed guidelines.