

Water Sample Results - General Chemistry and Metals

Parameter	Units	Canadian Drinking Water Guideline	Detection Limit	Lawrencetown (043)	
				18-Nov-2004	05-Dec-08
General Chemistry					
Total Alkalinity (Total as CaCO3)	mg/L	-	5	82	82
Chloride (Cl)	mg/L	250 AO	1	150	180
Colour	TCU	15 AO	5	ND	ND
Hardness (CaCO3)	mg/L	500 AO	-	98.9	100
Nitrate + Nitrite	mg/L	10	0.05	ND	ND
Nitrite (N)	mg/L	1	0.01	ND	ND
Nitrate (N)	mg/L	10	0.05	ND	ND
Nitrogen (Ammonia Nitrogen)	mg/L	-	0.05	0.19	0.12
Total Organic Carbon (C)	mg/L	-	0.5	ND	0.5
Orthophosphate (P)	mg/L	-	0.01	ND	ND
pH	pH	6.5 - 8.5 AO	-	7.3	8.14
Reactive Silica (SiO2)	mg/L	-	0.5	7.3	8.5
Sulphate (SO4)	mg/L	500 AO	2	ND	ND
Turbidity	NTU	5 AO	0.1	1	0.2
Conductivity	uS/cm	-	-	695	710
Anion Sum	me/L	-	-	5.92	6.77
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	-	1	82	81
Calculated TDS	mg/L	-	1	341	375
Carb. Alkalinity (calc. as CaCO3)	mg/L	-	1	ND	1
Cation Sum	me/L	-	-	6.19	6.39
Ion Balance (% Difference)	%	-	-	2.27	2.89
Langelier Index (@ 20C)	N/A	-	-	-0.85	0.039
Langelier Index (@ 4C)	N/A	-	-	-1.25	-0.21
Saturation pH (@ 20C)	N/A	-	-	8.15	8.1
Saturation pH (@ 4C)	N/A	-	-	8.55	8.35
Calcium (Ca)	mg/L	-	0.1	26.1	27
Magnesium (Mg)	mg/L	-	0.1	8.2	8.8
Phosphorus (P)	mg/L	-	0.1	ND	ND
Potassium (K)	mg/L	-	0.1	1.9	1.9
Sodium (Na)	mg/L	200 AO	0.1	95.4	98
Bromide (Br)	mg/L	-	0.5	0.53	ND
Fluoride (F)	mg/L	1.5	0.1	0.11	0.1
Metals					
Aluminum (Al)	ug/L	-	10	ND	ND
Antimony (Sb)	ug/L	6	2	ND	ND
Arsenic (As)	ug/L	10	2	56	58
Barium (Ba)	ug/L	1000	5	26	41
Beryllium (Be)	ug/L	-	2	ND	ND
Bismuth (Bi)	ug/L	-	2	ND	ND
Boron (B)	ug/L	5000	5	93	110
Cadmium (Cd)	ug/L	5	0.3	ND	ND
Chromium (Cr)	ug/L	50	2	ND	ND
Cobalt (Co)	ug/L	-	1	ND	ND
Copper (Cu)	ug/L	1000 AO	2	ND	ND
Iron (Fe)	ug/L	300 AO	50	ND	ND
Lead (Pb)	ug/L	10	0.5	ND	ND
Manganese (Mn)	ug/L	50 AO	2	16	32
Molybdenum (Mo)	ug/L	-	2	ND	ND
Mercury (Hg)	ug/L	1	0.01		ND
Nickel (Ni)	ug/L	-	2	ND	ND
Selenium (Se)	ug/L	10	2	ND	ND
Silver (Ag)	ug/L	-	0.5	ND	ND
Strontium (Sr)	ug/L	-	5	1100	1400
Thallium (Tl)	ug/L	-	0.1	ND	ND
Tin (Sn)	ug/L	-	2	ND	ND
Titanium (Ti)	ug/L	-	2	ND	ND
Uranium (U)	ug/L	20	0.1	ND	ND
Vanadium (V)	ug/L	-	2	ND	ND
Zinc (Zn)	ug/L	5000 AO	5	ND	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.