

Water Sample Results - General Chemistry and Metals

Parameter	Units	Canadian Drinking Water Guideline	Detection Limit	Kentville (048)	
				15-Jun-2005	7-Nov-2007
General Chemistry					
Total Alkalinity (Total as CaCO ₃)	mg/L	-	5	20	22
Chloride (Cl)	mg/L	250 AO	1	230	270
Colour	TCU	15 AO	5	ND	ND
Hardness (CaCO ₃)	mg/L	500 AO	-	150	180
Nitrate + Nitrite	mg/L	10	0.05	1.2	0.96
Nitrite (N)	mg/L	1	0.01	ND	ND
Nitrate (N)	mg/L	10	0.05	1.2	0.96
Nitrogen (Ammonia Nitrogen)	mg/L	-	0.05	0.06	ND
Total Organic Carbon (C)	mg/L	-	0.5	ND	ND
Orthophosphate (P)	mg/L	-	0.01	ND	0.05
pH	pH	6.5 - 8.5 AO	-	6.84	7.39
Reactive Silica (SiO ₂)	mg/L	-	0.5	11	11
Sulphate (SO ₄)	mg/L	500 AO	2	16	19
Turbidity	NTU	5 AO	0.1	5	0.7
Conductivity	uS/cm	-	-	910	1000
Anion Sum	me/L	-	-	7.36	8.5
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	-	1	20.3	22
Calculated TDS	mg/L	-	1	223	503
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	-	1	ND	ND
Cation Sum	me/L	-	-	8.18	8.67
Ion Balance (% Difference)	%	-	-	5.28	0.99
Langelier Index (@ 20C)	N/A	-	-	-1.54	-0.975
Langelier Index (@ 4C)	N/A	-	-	-1.79	-1.22
Saturation pH (@ 20C)	N/A	-	-	8.38	8.37
Saturation pH (@ 4C)	N/A	-	-	8.63	8.61
Calcium (Ca)	mg/L	-	0.1	52	58
Magnesium (Mg)	mg/L	-	0.1	5.6	7.5
Phosphorus (P)	mg/L	-	0.1	ND (0.2)	ND
Potassium (K)	mg/L	-	0.1	4.9	5.4
Sodium (Na)	mg/L	200 AO	0.1	120	120
Bromide (Br)	mg/L	-	0.5	ND	ND
Fluoride (F)	mg/L	1.5	0.1	ND	ND
Metals					
Aluminum (Al)	ug/L	-	10	ND	ND
Antimony (Sb)	ug/L	6	2	ND	ND
Arsenic (As)	ug/L	10	2	ND	ND
Barium (Ba)	ug/L	1000	5	64	76
Beryllium (Be)	ug/L	-	2	ND	ND
Bismuth (Bi)	ug/L	-	2	ND	ND
Boron (B)	ug/L	5000	5	5.7	6
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	410
Lead (Pb)	ug/L	10	0.5	ND	45
Manganese (Mn)	ug/L	50 AO	2	ND	12
Molybdenum (Mo)	ug/L	-	2	ND	ND
Mercury (Hg)	ug/L	1	0.01	-	0.01
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	210	260
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	150	8

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.