

**Water Sample Results - General Chemistry and Metals**

Parameter	Units	Canadian Drinking Water Guideline	Detection Limit	Kentville (048)		
				15-Jun-2005	7-Nov-2007	5-Jul-2011
<b>General Chemistry</b>						
Total Alkalinity (Total as CaCO3)	mg/L	-	5	20	22	21
Chloride (Cl)	mg/L	250 AO	1	230	<b>270</b>	<b>290</b>
Colour	TCU	15 AO	5	ND	ND	8
Hardness (CaCO3)	mg/L	-	-	150	180	180
Nitrate + Nitrite	mg/L	10	0.05	1.2	0.96	1
Nitrite (N)	mg/L	1	0.01	ND	ND	ND
Nitrate (N)	mg/L	10	0.05	1.2	0.96	1
Nitrogen (Ammonia Nitrogen)	mg/L	-	0.05	0.06	ND	ND
Total Organic Carbon (C)	mg/L	-	0.5	ND	ND	ND
Orthophosphate (P)	mg/L	-	0.01	ND	0.05	ND
pH	pH	7.0-10.5 OG	-	<b>6.84</b>	7.39	<b>6.94</b>
Reactive Silica (SiO2)	mg/L	-	0.5	11	11	11
Sulphate (SO4)	mg/L	500 AO	2	16	19	21
Turbidity	NTU	-	0.1	5	0.7	1.7
Conductivity	uS/cm	-	-	910	1000	28
Anion Sum	me/L	-	-	7.36	8.5	9.01
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	-	1	20.3	22	21
Calculated TDS	mg/L	-	1	223	503	537
Carb. Alkalinity (calc. as CaCO3)	mg/L	-	1	ND	ND	ND
Cation Sum	me/L	-	-	8.18	8.67	9.32
Ion Balance (% Difference)	%	-	-	5.28	0.99	1.69
Langelier Index (@ 20C)	N/A	-	-	-1.54	-0.975	-1.45
Langelier Index (@ 4C)	N/A	-	-	-1.79	-1.22	-1.7
Saturation pH (@ 20C)	N/A	-	-	8.38	8.37	8.39
Saturation pH (@ 4C)	N/A	-	-	8.63	8.61	8.64
Calcium (Ca)	mg/L	-	0.1	52	58	58.6
Magnesium (Mg)	mg/L	-	0.1	5.6	7.5	7.92
Phosphorus (P)	mg/L	-	0.1	ND (0.2)	ND	ND
Potassium (K)	mg/L	-	0.1	4.9	5.4	5.77
Sodium (Na)	mg/L	200 AO	0.1	120	120	128
Bromide (Br)	mg/L	-	0.5	ND	ND	ND
Fluoride (F)	mg/L	1.5	0.1	ND	ND	ND
<b>Metals</b>						
Aluminum (Al)	ug/L	-	10	ND	ND	ND (5)
Antimony (Sb)	ug/L	6	2	ND	ND	ND (1)
Arsenic (As)	ug/L	10	2	ND	ND	ND (1)
Barium (Ba)	ug/L	1000	5	64	76	79.6
Beryllium (Be)	ug/L	-	2	ND	ND	ND (1)
Bismuth (Bi)	ug/L	-	2	ND	ND	ND
Boron (B)	ug/L	5000	5	5.7	6	ND (50)
Cadmium (Cd)	ug/L	5	0.3	ND	ND	0.042
Chromium (Cr)	ug/L	50	2	ND	ND	ND (1)
Cobalt (Co)	ug/L	-	1	ND	ND	ND (0.4)
Copper (Cu)	ug/L	1000 AO	2	ND	ND	ND
Iron (Fe)	ug/L	300 AO	50	ND	410	<b>585</b>
Lead (Pb)	ug/L	10	0.5	ND	<b>45</b>	<b>72.9</b>
Manganese (Mn)	ug/L	50 AO	2	ND	12	21.9
Molybdenum (Mo)	ug/L	-	2	ND	ND	ND
Mercury (Hg)	ug/L	1	0.01		0.01	0.033
Nickel (Ni)	ug/L	-	2	ND	ND	ND
Selenium (Se)	ug/L	50	2	ND	ND	ND (1)
Silver (Ag)	ug/L	-	0.5	ND	ND	ND (0.1)
Strontium (Sr)	ug/L	-	5	210	260	256
Thallium (Tl)	ug/L	-	0.1	ND	ND	ND
Tin (Sn)	ug/L	-	2	ND	ND	ND
Titanium (Ti)	ug/L	-	2	ND	ND	ND (5)
Uranium (U)	ug/L	20	0.1	ND	ND	ND
Vanadium (V)	ug/L	-	2	ND	ND	ND
Zinc (Zn)	ug/L	5000 AO	5	150	8	ND

**Notes:**

All guidelines are based on Health Canada MACs (Maximum Acceptable Concentrations) or Interim (I)MACs, unless otherwise indicated.

AO = Aesthetic Objective- see Health Canada Drinking Water Guidelines for details

OG = Operational Guidance - see Health Canada Drinking Water Guidelines for details

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

"-" = not applicable

Shaded values exceed guidelines.