

Water Sample Results - General Chemistry and Metals

Parameter	Units	Canadian Drinking Water Guideline	Detection Limit	Fall River (076)	
				20-May-2008	12-Oct-2016
General Chemistry					
Total Alkalinity (Total as CaCO3)	mg/L	-	5	ND	5.7
Chloride (Cl)	mg/L	250 AO	1	12	49
Colour	TCU	15 AO	5	42	12
Hardness (CaCO3)	mg/L	-	-	13	18
Nitrate + Nitrite	mg/L	10	0.05	0.14	0.2
Nitrite (N)	mg/L	1	0.01	ND	0.014
Nitrate (N)	mg/L	10	0.05	0.12	0.19
Nitrogen (Ammonia Nitrogen)	mg/L	-	0.05	0.07	0.13
Total Organic Carbon (C)	mg/L	-	0.5	1.1	ND (1)
Orthophosphate (P)	mg/L	-	0.01	ND	ND
pH	pH	7.0-10.5 OG	-	6	5.97
Reactive Silica (SiO2)	mg/L	-	0.5	4	3.7
Sulphate (SO4)	mg/L	500 AO	2	14	11
Turbidity	NTU	-	0.1	4.6	430
Conductivity	uS/cm	-	-	110	170
Anion Sum	me/L	-	-	0.69	1.74
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	-	1	ND	5.7
Calculated TDS	mg/L	-	1	54	110
Carb. Alkalinity (calc. as CaCO3)	mg/L	-	1	ND	ND
Cation Sum	me/L	-	-	0.95	1.81
Ion Balance (% Difference)	%	-	-	15.9	1.97
Langelier Index (@ 20C)	N/A	-	-	-	-3.93
Langelier Index (@ 4C)	N/A	-	-	-	-4.18
Saturation pH (@ 20C)	N/A	-	-	-	9.9
Saturation pH (@ 4C)	N/A	-	-	-	10.1
Calcium (Ca)	mg/L	-	0.1	3.4	4.9
Magnesium (Mg)	mg/L	-	0.1	1.1	1.4
Phosphorus (P)	mg/L	-	0.1	ND	ND
Potassium (K)	mg/L	-	0.1	0.9	0.85
Sodium (Na)	mg/L	200 AO	0.1	8.1	25
Bromide (Br)	mg/L	-	0.5	0.5	ND
Fluoride (F)	mg/L	1.5	0.1	ND	ND
Metals					
Aluminum (Al)	ug/L	-	10	45	100
Antimony (Sb)	ug/L	6	2	ND	ND
Arsenic (As)	ug/L	10	2	ND	ND
Barium (Ba)	ug/L	1000	5	14	20
Beryllium (Be)	ug/L	-	2	ND	ND
Bismuth (Bi)	ug/L	-	2	ND	ND
Boron (B)	ug/L	5000	5	6	ND
Cadmium (Cd)	ug/L	5	0.3	ND	0.097
Chromium (Cr)	ug/L	50	2	ND	ND
Cobalt (Co)	ug/L	-	1	4	3
Copper (Cu)	ug/L	1000 AO	2	ND	ND
Iron (Fe)	ug/L	300 AO	50	8700	9600
Lead (Pb)	ug/L	10	0.5	1.5	ND
Manganese (Mn)	ug/L	50 AO	2	770	570
Molybdenum (Mo)	ug/L	-	2	ND	ND
Mercury (Hg)	ug/L	1	0.01	ND	0.017
Nickel (Ni)	ug/L	-	2	5	7.6
Selenium (Se)	ug/L	50	2	ND	ND
Silver (Ag)	ug/L	-	0.5	ND	ND
Strontium (Sr)	ug/L	-	5	11	15
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	21	14

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.