

Water Sample Results - General Chemistry and Metals

Parameter	Units	Canadian Drinking Water Guideline	Detection Limit	Sheffield Mills (075)	
				10-Sep-2007	9-Jun-2010
General Chemistry					
Total Alkalinity (Total as CaCO3)	mg/L	-	5	95	97
Chloride (Cl)	mg/L	250 AO	1	6	5
Colour	TCU	15 AO	5	ND	ND
Hardness (CaCO3)	mg/L	-	-	98	95
Nitrate + Nitrite	mg/L	10	0.05	0.78	0.12
Nitrite (N)	mg/L	1	0.01	ND	ND
Nitrate (N)	mg/L	10	0.05	0.78	0.12
Nitrogen (Ammonia Nitrogen)	mg/L	-	0.05	ND	ND
Total Organic Carbon (C)	mg/L	-	0.5	ND	ND
Orthophosphate (P)	mg/L	-	0.01	ND	ND
pH	pH	7.0-10.5 OG	-	7.99	8.05
Reactive Silica (SiO2)	mg/L	-	0.5	8.9	8.8
Sulphate (SO4)	mg/L	500 AO	2	3	3
Turbidity	NTU	-	0.1	ND	0.6
Conductivity	uS/cm	-	-	210	200
Anion Sum	me/L	-	-	2.17	2.15
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	-	1	94	96
Calculated TDS	mg/L	-	1	124	117
Carb. Alkalinity (calc. as CaCO3)	mg/L	-	1	ND	1
Cation Sum	me/L	-	-	2.31	2.08
Ion Balance (% Difference)	%	-	-	3.13	1.65
Langelier Index (@ 20C)	N/A	-	-	0.147	0.211
Langelier Index (@ 4C)	N/A	-	-	-0.104	-0.04
Saturation pH (@ 20C)	N/A	-	-	7.84	7.84
Saturation pH (@ 4C)	N/A	-	-	8.09	8.09
Calcium (Ca)	mg/L	-	0.1	35	34
Magnesium (Mg)	mg/L	-	0.1	2.7	2.4
Phosphorus (P)	mg/L	-	0.1	ND	-
Potassium (K)	mg/L	-	0.1	2.5	2.3
Sodium (Na)	mg/L	200 AO	0.1	6.8	3.2
Bromide (Br)	mg/L	-	0.5	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	18	16
Beryllium (Be)	ug/L	-	2	ND	ND
Bismuth (Bi)	ug/L	-	2	ND	ND
Boron (B)	ug/L	5000	5	7	7
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	ND	ND
Molybdenum (Mo)	ug/L	-	2	ND	ND
Mercury (Hg)	ug/L	1	0.01	ND	ND
Nickel (Ni)	ug/L	-	2	ND	ND
Selenium (Se)	ug/L	50	2	ND	ND
Silver (Ag)	ug/L	-	0.5	ND	ND
Strontium (Sr)	ug/L	-	5	420	420
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	8.4	9.7
Vanadium (V)	ug/L	-	2	ND	ND
Zinc (Zn)	ug/L	5000 AO	5	ND	6

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.