

Water Sample Results - General Chemistry and Metals

Parameter	Units	Canadian Drinking Water Guideline	Detection Limit	Amherst (071)	
				16-Dec-2006	08-Jan-2009
General Chemistry					
Total Alkalinity (Total as CaCO3)	mg/L	-	5	120	120
Chloride (Cl)	mg/L	250 AO	1	33	32
Colour	TCU	15 AO	5	ND	ND
Hardness (CaCO3)	mg/L	-	-	83	74
Nitrate + Nitrite	mg/L	10	0.05	1.3	1.4
Nitrite (N)	mg/L	1	0.01	ND	0.01
Nitrate (N)	mg/L	10	0.05	1.3	1.4
Nitrogen (Ammonia Nitrogen)	mg/L	-	0.05	ND	ND
Total Organic Carbon (C)	mg/L	-	0.5	2.3	ND
Orthophosphate (P)	mg/L	-	0.01	0.04	0.05
pH	pH	7.0-10.5 OG	-	8.08	7.97
Reactive Silica (SiO2)	mg/L	-	0.5	11	11
Sulphate (SO4)	mg/L	500 AO	2	40	42
Turbidity	NTU	-	0.1	ND	0.3
Conductivity	uS/cm	-	-	430	390
Anion Sum	me/L	-	-	4.3	4.26
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	-	1	120	117
Calculated TDS	mg/L	-	1	260	259
Carb. Alkalinity (calc. as CaCO3)	mg/L	-	1	1	1
Cation Sum	me/L	-	-	4.55	4.46
Ion Balance (% Difference)	%	-	-	2.89	2.29
Langelier Index (@ 20C)	N/A	-	-	0.17	0.007
Langelier Index (@ 4C)	N/A	-	-	-0.08	-0.242
Saturation pH (@ 20C)	N/A	-	-	7.91	7.96
Saturation pH (@ 4C)	N/A	-	-	8.16	8.21
Calcium (Ca)	mg/L	-	0.1	26	24
Magnesium (Mg)	mg/L	-	0.1	4.3	3.6
Phosphorus (P)	mg/L	-	0.1	ND	ND
Potassium (K)	mg/L	-	0.1	1.3	1.2
Sodium (Na)	mg/L	200 AO	0.1	66	68
Bromide (Br)	mg/L	-	0.5	ND	ND
Fluoride (F)	mg/L	1.5	0.1	0.6	0.6
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	170	180
Beryllium (Be)	ug/L	-	2	ND	ND
Bismuth (Bi)	ug/L	-	2	ND	ND
Boron (B)	ug/L	5000	5	12	11
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	3	ND
Molybdenum (Mo)	ug/L	-	2	50	56
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	58	58
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	3.7	3.8
Vanadium (V)	ug/L	-	2	5	4
Zinc (Zn)	ug/L	5000 AO	5	ND	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.