

Water Sample Results - General Chemistry and Metals

Parameter	Units	Canadian Drinking Water Guideline	Detection Limit	Atlanta (074)	
				03-Sep-2007	8-Jun-2010
General Chemistry					
Total Alkalinity (Total as CaCO3)	mg/L	-	5	95	88
Chloride (Cl)	mg/L	250 AO	1	8	8
Colour	TCU	15 AO	5	ND	ND
Hardness (CaCO3)	mg/L	-	-	75	50
Nitrate + Nitrite	mg/L	10	0.05	0.74	0.61
Nitrite (N)	mg/L	1	0.01	ND	ND
Nitrate (N)	mg/L	10	0.05	0.74	0.61
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	-	8.08	8.12
Reactive Silica (SiO2)	mg/L	-	0.5	11	10
Sulphate (SO4)	mg/L	500 AO	2	4	4
Turbidity	NTU	-	0.1	ND	0.3
Conductivity	uS/cm	-	-	210	200
Anion Sum	me/L	-	-	2.26	2.1
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	-	1	94	87
Calculated TDS	mg/L	-	1	135	120
Carb. Alkalinity (calc. as CaCO3)	mg/L	-	1	1	1
Cation Sum	me/L	-	-	2.47	2
Ion Balance (% Difference)	%	-	-	4.44	2.44
Langelier Index (@ 20C)	N/A	-	-	0.116	-0.049
Langelier Index (@ 4C)	N/A	-	-	-0.135	-0.3
Saturation pH (@ 20C)	N/A	-	-	7.96	8.17
Saturation pH (@ 4C)	N/A	-	-	8.22	8.42
Calcium (Ca)	mg/L	-	0.1	27	18
Magnesium (Mg)	mg/L	-	0.1	2.2	1.5
Phosphorus (P)	mg/L	-	0.1	ND	-
Potassium (K)	mg/L	-	0.1	2.2	2.2
Sodium (Na)	mg/L	200 AO	0.1	21	22
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	17
Antimony (Sb)	ug/L	6	2	ND	ND
Arsenic (As)	ug/L	10	2	ND	ND
Barium (Ba)	ug/L	1000	5	8	7
Beryllium (Be)	ug/L	-	2	ND	ND
Bismuth (Bi)	ug/L	-	2	ND	ND
Boron (B)	ug/L	5000	5	13	16
Cadmium (Cd)	ug/L	5	0.3	ND	0.04
Chromium (Cr)	ug/L	50	2	ND	2
Cobalt (Co)	ug/L	-	1	ND	ND
Copper (Cu)	ug/L	1000 AO	2	ND	3
Iron (Fe)	ug/L	300 AO	50	ND	ND
Lead (Pb)	ug/L	10	0.5	ND	0.6
Manganese (Mn)	ug/L	50 AO	2	ND	3
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	2	5
Silver (Ag)	ug/L	-	0.5	ND	ND
Strontium (Sr)	ug/L	-	5	280	250
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	21	25
Vanadium (V)	ug/L	-	2	ND	ND
Zinc (Zn)	ug/L	5000 AO	5	ND	16

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.