

Water Sample Results - General Chemistry and Metals

Parameter	Units	Canadian Drinking Water Guideline	Detection Limit	St Peters (085)
				19-Jul-2011
General Chemistry				
Total Alkalinity (Total as CaCO ₃)	mg/L	-	5	200
Chloride (Cl)	mg/L	250 AO	1	20
Colour	TCU	15 AO	5	ND
Hardness (CaCO ₃)	mg/L	-	-	11
Nitrate + Nitrite	mg/L	10	0.05	ND
Nitrite (N)	mg/L	1	0.01	ND
Nitrate (N)	mg/L	10	0.05	ND
Nitrogen (Ammonia Nitrogen)	mg/L	-	0.05	ND
Total Organic Carbon (C)	mg/L	-	0.5	ND
Orthophosphate (P)	mg/L	-	0.01	0.05
pH	pH	7.0-10.5 OG	-	9
Reactive Silica (SiO ₂)	mg/L	-	0.5	8.3
Sulphate (SO ₄)	mg/L	500 AO	2	69
Turbidity	NTU	-	0.1	0.6
Conductivity	uS/cm	-	-	580
Anion Sum	me/L	-	-	6.01
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	-	1	182
Calculated TDS	mg/L	-	1	348
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	-	1	17
Cation Sum	me/L	-	-	5.7
Ion Balance (% Difference)	%	-	-	2.65
Langelier Index (@ 20C)	N/A	-	-	0.286
Langelier Index (@ 4C)	N/A	-	-	0.038
Saturation pH (@ 20C)	N/A	-	-	8.71
Saturation pH (@ 4C)	N/A	-	-	8.96
Calcium (Ca)	mg/L	-	0.1	2.88
Magnesium (Mg)	mg/L	-	0.1	0.929
Phosphorus (P)	mg/L	-	0.1	ND
Potassium (K)	mg/L	-	0.1	0.755
Sodium (Na)	mg/L	200 AO	0.1	126
Bromide (Br)	mg/L	-	0.5	-
Fluoride (F)	mg/L	1.5	0.1	0.4
Metals				
Aluminum (Al)	ug/L	-	10	25.1
Antimony (Sb)	ug/L	6	2	ND (1)
Arsenic (As)	ug/L	10	2	29.7
Barium (Ba)	ug/L	1000	5	20.7
Beryllium (Be)	ug/L	-	2	ND (1)
Bismuth (Bi)	ug/L	-	2	ND
Boron (B)	ug/L	5000	5	114
Cadmium (Cd)	ug/L	5	0.3	ND
Chromium (Cr)	ug/L	50	2	ND (1)
Cobalt (Co)	ug/L	-	1	ND (0.4)
Copper (Cu)	ug/L	1000 AO	2	ND
Iron (Fe)	ug/L	300 AO	50	ND
Lead (Pb)	ug/L	10	0.5	ND
Manganese (Mn)	ug/L	50 AO	2	3.3
Molybdenum (Mo)	ug/L	-	2	7.3
Mercury (Hg)	ug/L	1	0.01	ND
Nickel (Ni)	ug/L	-	2	ND
Selenium (Se)	ug/L	50	2	ND (1)
Silver (Ag)	ug/L	-	0.5	ND (0.1)
Strontium (Sr)	ug/L	-	5	39.2
Thallium (Tl)	ug/L	-	0.1	ND
Tin (Sn)	ug/L	-	2	ND
Titanium (Ti)	ug/L	-	2	ND
Uranium (U)	ug/L	20	0.1	0.31
Vanadium (V)	ug/L	-	2	ND
Zinc (Zn)	ug/L	5000 AO	5	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.