

Water Sample Results - General Chemistry and Metals

Parameter	Units	Canadian Drinking Water Guideline	Detection Limit	Smiley's Park (086)
				8-Oct-1993
General Chemistry				
Total Alkalinity (Total as CaCO ₃)	mg/L	-	5	187
Chloride (Cl)	mg/L	250 AO	1	83.8
Colour	TCU	15 AO	5	3
Hardness (CaCO ₃)	mg/L	-	-	448
Nitrate + Nitrite	mg/L	10	0.05	0.38
Nitrite (N)	mg/L	1	0.01	-
Nitrate (N)	mg/L	10	0.05	-
Nitrogen (Ammonia Nitrogen)	mg/L	-	0.05	ND
Total Organic Carbon (C)	mg/L	-	0.5	1.5
Orthophosphate (P)	mg/L	-	0.01	ND
pH	pH	7.0-10.5 OG	-	7.3
Reactive Silica (SiO ₂)	mg/L	-	0.5	5.5
Sulphate (SO ₄)	mg/L	500 AO	2	205
Turbidity	NTU	-	0.1	22.7
Conductivity	uS/cm	-	-	1160
Anion Sum	me/L	-	-	10.4
Bicarb. Alkalinity (calc. as CaCO ₃)	mg/L	-	1	187
Calculated TDS	mg/L	-	1	-
Carb. Alkalinity (calc. as CaCO ₃)	mg/L	-	1	0.35
Cation Sum	me/L	-	-	11
Ion Balance (% Difference)	%	-	-	2.79
Langelier Index (@ 20C)	N/A	-	-	-
Langelier Index (@ 4C)	N/A	-	-	-0.08
Saturation pH (@ 20C)	N/A	-	-	-
Saturation pH (@ 4C)	N/A	-	-	7.38
Calcium (Ca)	mg/L	-	0.1	169
Magnesium (Mg)	mg/L	-	0.1	6.3
Phosphorus (P)	mg/L	-	0.1	-
Potassium (K)	mg/L	-	0.1	1.3
Sodium (Na)	mg/L	200 AO	0.1	46.1
Bromide (Br)	mg/L	-	0.5	-
Fluoride (F)	mg/L	1.5	0.1	-
Metals				
Aluminum (Al)	ug/L	-	10	7
Antimony (Sb)	ug/L	6	2	ND
Arsenic (As)	ug/L	10	2	ND
Barium (Ba)	ug/L	1000	5	77
Beryllium (Be)	ug/L	-	2	ND
Bismuth (Bi)	ug/L	-	2	-
Boron (B)	ug/L	5000	5	15
Cadmium (Cd)	ug/L	5	0.3	ND
Chromium (Cr)	ug/L	50	2	2
Cobalt (Co)	ug/L	-	1	ND
Copper (Cu)	ug/L	1000 AO	2	3
Iron (Fe)	ug/L	300 AO	50	460
Lead (Pb)	ug/L	10	0.5	0.2
Manganese (Mn)	ug/L	50 AO	2	22
Molybdenum (Mo)	ug/L	-	2	ND
Mercury (Hg)	ug/L	1	0.01	-
Nickel (Ni)	ug/L	-	2	2
Selenium (Se)	ug/L	50	2	ND
Silver (Ag)	ug/L	-	0.5	ND
Strontium (Sr)	ug/L	-	5	960
Thallium (Tl)	ug/L	-	0.1	ND
Tin (Sn)	ug/L	-	2	ND
Titanium (Ti)	ug/L	-	2	-
Uranium (U)	ug/L	20	0.1	1.3
Vanadium (V)	ug/L	-	2	ND
Zinc (Zn)	ug/L	5000 AO	5	24

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.