

Water Sample Results - General Chemistry and Metals

Parameter	Units	Canadian Drinking Water Guideline	Detection Limit	Monastery (028)		
				15-Dec-2006	09-Dec-2008	24-Oct-2016
General Chemistry						
Total Alkalinity (Total as CaCO3)	mg/L	-	5	240	220	250
Chloride (Cl)	mg/L	250 AO	1	31	24	6.8
Colour	TCU	15 AO	5	ND	ND	5
Hardness (CaCO3)	mg/L	-	-	120	95	220
Nitrate + Nitrite	mg/L	10	0.05	ND	ND	ND
Nitrite (N)	mg/L	1	0.01	ND	ND	ND
Nitrate (N)	mg/L	10	0.05	ND	ND	ND
Nitrogen (Ammonia Nitrogen)	mg/L	-	0.05	0.14	0.12	ND
Total Organic Carbon (C)	mg/L	-	0.5	2.1	1	1.4
Orthophosphate (P)	mg/L	-	0.01	ND	ND	0.016
pH	pH	7.0-10.5 OG	-	8.14	8.23	7.9
Reactive Silica (SiO2)	mg/L	-	0.5	11	13	11
Sulphate (SO4)	mg/L	500 AO	2	72	59	16
Turbidity	NTU	-	0.1	0.2	0.3	26
Conductivity	uS/cm	-	-	660	640	460
Anion Sum	me/L	-	-	7.13	6.36	5.57
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	-	1	235	220	250
Calculated TDS	mg/L	-	1	417	365	280
Carb. Alkalinity (calc. as CaCO3)	mg/L	-	1	3	4	1.9
Cation Sum	me/L	-	-	7.51	6.28	5.2
Ion Balance (% Difference)	%	-	-	2.61	0.63	3.44
Langelier Index (@ 20C)	N/A	-	-	0.553	0.539	0.603
Langelier Index (@ 4C)	N/A	-	-	0.304	0.29	0.353
Saturation pH (@ 20C)	N/A	-	-	7.59	7.69	7.3
Saturation pH (@ 4C)	N/A	-	-	7.84	7.94	7.55
Calcium (Ca)	mg/L	-	0.1	31	25	52
Magnesium (Mg)	mg/L	-	0.1	9.3	7.7	22
Phosphorus (P)	mg/L	-	0.1	ND	ND	ND
Potassium (K)	mg/L	-	0.1	2.3	3.6	3
Sodium (Na)	mg/L	200 AO	0.1	120	98	17
Bromide (Br)	mg/L	-	0.5	ND	ND	ND
Fluoride (F)	mg/L	1.5	0.1	0.3	ND	ND
Metals						
Aluminum (Al)	ug/L	-	10	ND	ND	ND
Antimony (Sb)	ug/L	6	2	ND	0.78	ND
Arsenic (As)	ug/L	10	2	6	4.1	ND
Barium (Ba)	ug/L	1000	5	25	25	87
Beryllium (Be)	ug/L	-	2	ND	ND	ND
Bismuth (Bi)	ug/L	-	2	ND	ND	ND
Boron (B)	ug/L	5000	5	250	220	61
Cadmium (Cd)	ug/L	5	0.3	ND	ND	ND
Chromium (Cr)	ug/L	50	2	ND	ND	ND
Cobalt (Co)	ug/L	-	1	ND	ND	ND
Copper (Cu)	ug/L	1000 AO	2	7	ND	ND
Iron (Fe)	ug/L	300 AO	50	ND	ND	ND
Lead (Pb)	ug/L	10	0.5	ND	ND	ND
Manganese (Mn)	ug/L	50 AO	2	42	48	300
Molybdenum (Mo)	ug/L	-	2	3	ND	3
Mercury (Hg)	ug/L	1	0.01	ND	ND	ND
Nickel (Ni)	ug/L	-	2	ND	ND	ND
Selenium (Se)	ug/L	50	2	ND	ND	ND
Silver (Ag)	ug/L	-	0.5	ND	ND	ND
Strontium (Sr)	ug/L	-	5	2400	2600	2000
Thallium (Tl)	ug/L	-	0.1	ND	ND	ND
Tin (Sn)	ug/L	-	2	ND	ND	ND
Titanium (Ti)	ug/L	-	2	ND	ND	ND
Uranium (U)	ug/L	20	0.1	0.6	0.72	1.7
Vanadium (V)	ug/L	-	2	ND	ND	ND
Zinc (Zn)	ug/L	5000 AO	5	34	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.