

Water Sample Results - General Chemistry and Metals

Parameter	Units	Canadian Drinking Water Guideline	Detection Limit	Annapolis Royal (062)		
				9-Nov-2005	26-Nov-2007	1-Jun-2010
General Chemistry						
Total Alkalinity (Total as CaCO3)	mg/L	-	5	52	54	55
Chloride (Cl)	mg/L	250 AO	1	6	6	6
Colour	TCU	15 AO	5	ND	ND	ND
Hardness (CaCO3)	mg/L	-	-	43	41	44
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	ND	ND	ND
Total Organic Carbon (C)	mg/L	-	0.5	ND	ND	ND
Orthophosphate (P)	mg/L	-	0.01	0.03	0.02	0.02
pH	pH	7.0-10.5 OG	-	7.3	8.03	7.77
Reactive Silica (SiO2)	mg/L	-	0.5	14	12	13
Sulphate (SO4)	mg/L	500 AO	2	7	7	8
Turbidity	NTU	-	0.1	0.2	15	0.2
Conductivity	uS/cm	-	-	130	140	140
Anion Sum	me/L	-	-	1.38	1.4	1.43
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	-	1	52	53	54
Calculated TDS	mg/L	-	1	89	88	89
Carb. Alkalinity (calc. as CaCO3)	mg/L	-	1	ND	ND	ND
Cation Sum	me/L	-	-	1.44	1.42	1.43
Ion Balance (% Difference)	%	-	-	2.2	0.71	0
Langelier Index (@ 20C)	N/A	-	-	-1.15	-0.431	-0.657
Langelier Index (@ 4C)	N/A	-	-	-1.41	-0.682	-0.909
Saturation pH (@ 20C)	N/A	-	-	8.45	8.46	8.43
Saturation pH (@ 4C)	N/A	-	-	8.71	8.71	8.68
Calcium (Ca)	mg/L	-	0.1	15	14	15
Magnesium (Mg)	mg/L	-	0.1	1.6	1.5	1.7
Phosphorus (P)	mg/L	-	0.1	ND	ND	-
Potassium (K)	mg/L	-	0.1	1	1.2	1.1
Sodium (Na)	mg/L	200 AO	0.1	13	13	12
Bromide (Br)	mg/L	-	0.5	ND	ND	ND
Fluoride (F)	mg/L	1.5	0.1	0.2	0.2	0.2
Metals						
Aluminum (Al)	ug/L	-	10	ND	ND	ND
Antimony (Sb)	ug/L	6	2	ND	ND	ND
Arsenic (As)	ug/L	10	2	4	4	4
Barium (Ba)	ug/L	1000	5	52	66	77
Beryllium (Be)	ug/L	-	2	ND	ND	ND
Bismuth (Bi)	ug/L	-	2	ND	ND	ND
Boron (B)	ug/L	5000	5	12	12	13
Cadmium (Cd)	ug/L	5	0.3	ND	ND	ND
Chromium (Cr)	ug/L	50	2	ND	ND	1
Cobalt (Co)	ug/L	-	1	ND	ND	ND
Copper (Cu)	ug/L	1000 AO	2	ND	ND	ND
Iron (Fe)	ug/L	300 AO	50	ND	ND	ND
Lead (Pb)	ug/L	10	0.5	ND	1	ND
Manganese (Mn)	ug/L	50 AO	2	110	93	95
Molybdenum (Mo)	ug/L	-	2	4	4	4
Mercury (Hg)	ug/L	1	0.01	-	0.02	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	59	61	71
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	1.9	3.6	2.6
Vanadium (V)	ug/L	-	2	ND	ND	ND
Zinc (Zn)	ug/L	5000 AO	5	ND	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.