

Haddo Weir Water Quality 2019

Water System: **Greater Vernon Water**

Source: **Duteau Creek**

Sampling Point: **Haddo Weir (6A16)**

Date of Sample: **7/15/2020**



		Canadian Drinking Water Guidelines	
Anions	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Chloride	0.10 ± 0.06		≤250
Fluoride	< 0.10	1.5	
Nitrate (As N)	< 0.010	10	
Nitrite (as N)	< 0.010	1	
Sulphate	1.6 ± 0.4		≤500
General Parameters	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Alkalinity, Bicarbonate (as CaCO ₃)	10.8	N/A	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	
Alkalinity, Total (as CaCO ₃)	10.8 ± 1.3	N/A	
Carbon, Dissolved Organic	9.75 ± 1.37	N/A	
Carbon, Total Organic	11.8 ± 1.3	N/A	
Chlorophyll a	1.57	N/A	
Colour, True	64 ± 6	N/A	≤ 15 TCU
Conductivity (EC)	37.1 ± 2.0	N/A	
Cyanide, Total	< 0.0020	0.2	
Nitrogen, Total Kjeldahl	0.303 ± 0.059	N/A	
pH	7.25 ± 0.02	N/A	7.0 - 10.5
Phosphorus, Total (as P)	0.0168 ± 0.0021	N/A	
Phosphorus, Total Dissolved	0.0103 ± 0.0016	N/A	
Turbidity	1.10 ± 0.08		OG <1
Calculated Parameters	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Hardness (Total)	13.2	N/A	
Total Dissolved Solids	15.2		≤500
Total Metals	Results (mg/L unless noted)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Aluminum, total	0.129 ± 0.027	N/A	OG ≤0.1
Antimony, total	< 0.00020	0.006	
Arsenic, total	< 0.00050	0.01	
Barium, total	0.0138 ± 0.0018	1	
Boron, total	<0.0500	5	
Cadmium, total	<0.000018 ± 0.000015	0.005	
Calcium, total	3.59 ± 0.55	N/A	
Chromium, total	0.00056 ± 0.00051	0.05	
Cobalt, total	< 0.00010	N/A	
Copper, total	0.00160 ± 0.00041	2	<1
Iron, total	0.233 ± 0.047	N/A	≤0.30
Lead, total	< 0.00020	0.005	
Magnesium, total	1.03 ± 0.14	N/A	
Manganese, total	0.0164 ± 0.0146	0.12	≤0.02
Mercury, total	< 0.000010	0.001	
Molybdenum, total	0.00018 ± 0.00010	N/A	
Nickel, total	0.00115 ± 0.00046	N/A	
Potassium, total	0.86 ± 0.18	N/A	
Selenium, total	< 0.00050	0.05	
Sodium, total	1.41 ± 0.28		≤200
Strontium, total	0.0262 ± 0.0032	7	
Uranium, total	0.000054 ± 0.000010	0.02	
Zinc, total	<0.0040		≤5