

Goose Lake Water Quality 2019

Water System: Greater Vernon Water
Source: Goose Lake
Facility: Goose Lake Pumphouse
Sampling Point: Goose Lake Pumphouse (6CC5)
Date of Sample: 7/11/2019



**REGIONAL DISTRICT
NORTH OKANAGAN**

		Canadian Drinking Water Guidelines	
Anions	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO)
Chloride	16.2		≤250
Fluoride	0.20	1.5	
Nitrate (As N)	< 0.010	10	
Nitrite (as N)	< 0.010	1	
Sulphate	92.4		≤500
General Parameters	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO)
Alkalinity, Bicarbonate (as CaCO ₃)	83.5	N/A	
Alkalinity, Carbonate (as CaCO ₃)	6.7	N/A	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	
Alkalinity, Phenolphthalein (as CaCO ₃)	3.3	N/A	
Alkalinity, Total (as CaCO ₃)	90.2	N/A	
Carbon, Dissolved Organic	5.63	N/A	
Carbon, Total Organic	5.71	N/A	
Chlorophyll a	8.36	N/A	
Colour, True	7.0		≤15
Conductivity (EC)	372	N/A	
Cyanide, Total	0.0028	0.2	
Nitrogen, Total Kjeldahl	0.676	N/A	
pH	8.56	7.0 - 10.5	
Phosphorus, Total (as P)	0.0812	N/A	
Phosphorus, Total Dissolved	0.0605	N/A	
Turbidity	2.07		OG <1
Calculated Parameters	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO)
Hardness (Total)	162	N/A	
Total Metals	Results (mg/L unless noted)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO)
Aluminum, total	0.0051	no current guideline	OG <0.1
Antimony, total	< 0.00020	0.006	
Arsenic, total	0.0006	0.01	
Barium, total	0.0321	1	
Boron, total	0.0135	5	
Cadmium, total	0.00001	0.005	
Calcium, total	37.0	no current guideline	
Chromium, total	0.00097	0.05	
Cobalt, total	< 0.00010	no current guideline	
Copper, total	0.0114	2	
Iron, total	0.101		≤ 0.30
Lead, total	0.00029	0.005	
Magnesium, total	16.7	no current guideline	
Manganese, total	0.0781	0.12	
Mercury, total	< 0.000010	0.001	
Molybdenum, total	0.002	no current guideline	
Nickel, total	0.00096	no current guideline	
Potassium, total	4.8	no current guideline	
Selenium, total	<0.00050	0.05	
Sodium, total	22.1		≤ 200
Uranium, total	0.000689	0.02	
Zinc, total	0.005		≤ 5