

Goose Lake Water Quality 2010

Water System: **Greater Vernon Water**
 Source: **Goose Lake**
 Sampling Point: **Goose Lake**
 Date: **7/19/2010**

INORGANIC	Results (mg/L unless noted)	Canadian Drinking Water Guidelines	
		Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO)
Aluminum (total)	<0.05	no current guideline	≤ 0.1
Antimony (total)	<0.0010	0.006	
Arsenic (total)	<0.0050	<0.01	
Barium (total)	0.0201	<1	
Boron (total)	<0.040	<5	
Cadmium (total)	<0.00010	<0.005	
Calcium (total)	14.4	no current guideline	
Chloride	8.11		<250
Chromium (total)	<0.0050	<0.05	
Copper (total)	0.0472		<1.0
Cyanide (total)	<0.010	<0.2	
Fluoride	0.16	<1.5	
Iron (total)	<0.10		<0.30
Lead (total)	0.0046	<0.01	
Magnesium (total)	4.66	no current guideline	
Manganese (total)	0.0077		<0.05
Mercury (total)	<0.00050	<0.001	
Molybdenum (total)	<0.0010	no current guideline	
Nitrate (as N)	<0.01	<10 mg/L as N	
Nitrite (as N)	<0.01	<1 mg/L as N	
Potassium (total)	2.27	no current guideline	
Selenium (total)	<0.0030	<0.01	
Sodium (total)	6.48		<200
Sulphate	28.5		<500
Uranium (total)	<0.00020	<0.02	
Zinc (total)	<0.010		<5.0

PHYSICAL	Results (mg/L unless noted)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO)
Alkalinity (total, as CaCO ₃)	39	no current guideline	
Colour	10		<15 TCU
Conductivity	164 microS/cm	no current guideline	
Hardness (total, as CaCO ₃)	55.3		see note
pH	7.82		6.5 - 8.5
Total dissolved solids / TDS	115		<500
Turbidity	0.8	1 NTU	<5 NTU

Notes:

No current Guideline ; Reference Health Canada

Hardness - no guideline - "Hardness Levels between 80 and 100 mg/L as CaCo₃ are considered acceptable; levels greater than 200 are considered poor but can be tolerated; those in excess of 500 are normally considered unacceptable.

Turbidity - 1 NTU when disinfection required; <5 NTU aesthetic clarity

"<" = less than detection limit shown

">" = greater than upper range limit shown

"«" = less than number shown (Detected)

"»" = greater than number shown (Detected)

* Criteria Exceeded