

North Kalamalka Lake Intake Water Quality 2010

Water System:	Greater Vernon Water
Source:	Kalamalka Lake
Facility:	Kal Lake Pumpstation
Sampling Point:	Kal Lake Intake (6-1-SR, 5EDD)
Date:	7/20/2010

INORGANIC	Results (mg/L unless noted)	Canadian Drinking Water Guidelines	
		Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO)
Aluminum (total)	<0.050	no current guideline	< 0.1
Antimony (total)	<0.0010	<0.006	
Arsenic (total)	0.0058	<0.01	
Barium (total)	0.0277	<1	
Boron (total)	<0.040	<5	
Cadmium (total)	<0.00010	<0.005	
Calcium (total)	36.7	no current guideline	
Chloride	6.26		<250
Chromium (total)	<0.0050	<0.05	
Copper (total)	0.0012		<1.0
Cyanide (total)	< 0.01	<0.2	
Fluoride	0.28	<1.5	
Iron (total)	<0.10		<0.30
Lead (total)	<0.0010	<0.01	
Magnesium (total)	20.2	no current guideline	
Manganese (total)	<0.0020		<0.05
Mercury (total)	<0.00050	<0.001	
Molybdenum (total)	0.0055	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)	4.49	no current guideline	
Selenium (total)	0.004	<0.01	
Sodium (total)	17.7		<200
Sulphate	50		<500
Uranium (total)	0.00322	<0.02	
Zinc (total)	<0.010		<5.0

PHYSICAL	Results (mg/L unless noted)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO)
Alkalinity (total, as CaCO3)	164	no current guideline	
Colour	< 5 TCU		<15 TCU
Conductivity	405	no current guideline	

Hardness (total, as CaCO ₃)	175		see note
pH	8.38		6.5 - 8.5
Total dissolved solids / TDS	238		<500
Turbidity	1.4	1 NTU	<5 NTU
UV Transmittance @254 (%)	91.8%		

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)