

Duteau Creek Intake Water Quality 2022

Water System: **Greater Vernon Water**
 Source: **Duteau Creek**
 Sampling Point: **Headgates (6CC4)**
 Date of Sample: **7/19/2022**



**REGIONAL DISTRICT
NORTH OKANAGAN**

		Canadian Drinking Water Guidelines	
Anions	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Chloride	0.12		≤ 250
Fluoride	< 0.10	1.5	
Nitrate (As N)	< 0.010	10	
Nitrite (as N)	< 0.010	1	
Sulphate	4.7		≤ 500
General Parameters	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
UV Transmittance # 254nm (Unfiltered)	40.0	N/A	
Alkalinity, Bicarbonate (as CaCO3)	21.7	N/A	
Alkalinity, Carbonate (as CaCO3)	< 1.0	N/A	
Alkalinity, Hydroxide (as CaCO3)	< 1.0	N/A	
Alkalinity, Phenolphthalein (as CaCO3)	< 1.0	N/A	
Alkalinity, Total (as CaCO3)	21.7	N/A	
Carbon, Dissolved Organic	9.19	N/A	
Carbon, Total Organic	9.58	N/A	
Chlorophyll a	1.85	N/A	
Colour, True	60	N/A	≤ 15
Conductivity (EC)	50	N/A	
Cyanide, Total	< 0.0020	0.2	
Nitrogen, Total Kjeldahl	0.187	N/A	
pH	7.34	N/A	7.0 - 10.5
Phosphorus, Total (as P)	0.0182	N/A	
Phosphorus, Total Dissolved	na	N/A	
Turbidity	1.24		OG <1
Calculated Parameters	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Hardness, Total	22.8	N/A	
Total Dissolved Solids	54		<500
Total Metals	Results (mg/L unless noted)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO) Operational Guideline (OG)
Aluminum, total	0.114	no current guideline	OG < 0.1
Antimony, total	<0.00020	0.006	
Arsenic, total	< 0.00050	0.01	
Barium, total	0.0143	1	
Boron, total	< 0.0500	5	
Cadmium, total	< 0.000010	0.005	
Calcium, total	6.52	no current guideline	
Chromium, total	<0.00050	0.05	
Cobalt, total	< 0.00010	no current guideline	
Copper, total	0.00246	2	<1
Iron, total	0.237		≤ 0.30
Lead, total	< 0.00020	0.005	
Magnesium, total	1.57	no current guideline	
Manganese, total	0.0189	0.12	≤ 0.02
Mercury, total	< 0.000010	0.001	
Molybdenum, total	0.00031	no current guideline	
Nickel, total	0.00133	no current guideline	
Potassium, total	0.85	no current guideline	
Selenium, total	< 0.00050	0.05	
Sodium, total	1.6		≤ 200
Strontium, total	0.0409	7	
Uranium, total	0.000088	0.02	
Zinc, total	<0.0040		≤ 5

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