

PRV #2 Water Quality 2022

Water System: Greater Vernon Water
 Source: Duteau Creek
 Facility: DCWTP
 Sampling Point: PRV #2 (5EE5)
 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)
Chloride	20		≤250
Fluoride	<0.10	<1.5	
Nitrate (As N)	<0.010	<10 mg/L as N	
Nitrite (as N)	< 0.010	<1 mg/L as N	
Sulphate	3.8		<500
General Parameters	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO)
Alkalinity, Total (as CaCO ₃)	16.3	N/A	
Alkalinity, Phenolphthalein (as CaCO ₃)	< 1.0	N/A	
Alkalinity, Bicarbonate (as CaCO ₃)	16.3	N/A	
Alkalinity, Carbonate (as CaCO ₃)	< 1.0	N/A	
Alkalinity, Hydroxide (as CaCO ₃)	< 1.0	N/A	
Carbon, Total Organic	4.02	N/A	
Carbon, Dissolved Organic	4.01	N/A	
Colour, True	< 5.0		≤15
Conductivity (EC)	111	N/A	
Cyanide, Total	< 0.0020	<0.2	
Nitrogen, Total Kjeldahl	0.126	N/A	
pH	7.25	7.0-10.5	
Phosphorus, total (as P)	0.0158	N/A	
Phosphorus, Total Dissolved	0.0104	N/A	
Turbidity	0.35	<1.0	
UV Transmittance @ 254 nm - Unfiltered	87.9	N/A	
UV Transmittance @ 254 nm	89.3	N/A	
Calculated Parameters	Results (mg/L)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO)
Hardness, Total (as CaCO ₃)	22.9	N/A	
Solids, Total Dissolved	69		≤500
Total Metals	Results (mg/L unless noted)	Maximum Acceptable Concentration (MAC)	Aesthetic Objective (AO)
Aluminum, total	0.285	2.9 (proposed)	
Antimony, total	< 0.00020	0.006	
Arsenic, total	< 0.00050	0.01	
Barium, total	0.013	1	
Boron, total	< 0.0500	5	
Cadmium, total	< 0.000010	0.005	
Calcium, total	6.68	N/A	
Chromium, total	< 0.00050	0.05	
Cobalt, total	< 0.00010	0.001	
Copper, total	0.00353	2	
Iron, total	0.01		<0.30
Lead, total	< 0.00020	0.005	
Magnesium, total	1.51	N/A	
Manganese, total	0.00326	0.12	<0.05
Mercury, total	<0.000010	0.001	
Molybdenum, total	0.00026	0.25	
Nickel, total	0.00067	0.08	
Potassium, total	0.9	N/A	
Selenium, total	< 0.00050	0.05	
Sodium, total	11.5		≤200
Strontium, total	0.0423	7	
Uranium, total	< 0.000020	0.02	
Zinc, total	0.008		≤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
 *k = less than number shown (Detected)
 *n = greater than number shown (Detected)
 * Criteria Exceeded*