

Headgates Water Quality 2020

Water System: **Greater Vernon Water**

Source: **Duteau Creek**

Sampling Point: **Headgates (6CC4)**

Date of Sample: **7/13/2020**



**REGIONAL DISTRICT
NORTH OKANAGAN**

| | | Canadian Drinking Water Guidelines | |
|---|-----------------------------|--|---|
| Anions | Results (mg/L) | Maximum Acceptable Concentration (MAC) | Aesthetic Objective (AO) Operational Guideline (OG) |
| Chloride | 0.13 ± 0.06 | | ≤ 250 |
| Fluoride | <0.10 | 1.5 | |
| Nitrate (As N) | < 0.010 | 10 | |
| Nitrite (as N) | < 0.010 | 1 | |
| Sulphate | 3.0 ± 0.7 | | ≤ 500 |
| General Parameters | Results (mg/L) | Maximum Acceptable Concentration (MAC) | Aesthetic Objective (AO) Operational Guideline (OG) |
| UV Transmittance # 254nm (Unfiltered) | 40.3 ± 5.3 | N/A | |
| Alkalinity, Bicarbonate (as CaCO ₃) | 21.9 | N/A | |
| Alkalinity, Carbonate (as CaCO ₃) | < 1.0 | N/A | |
| Alkalinity, Hydroxide (as CaCO ₃) | < 1.0 | N/A | |
| Alkalinity, Phenolphthalein (as CaCO ₃) | < 1.0 | N/A | |
| Alkalinity, Total (as CaCO ₃) | 21.9 ± 1.7 | N/A | |
| Carbon, Dissolved Organic | 8.84 ± 1.25 | N/A | |
| Carbon, Total Organic | 9.03 ± 1.02 | N/A | |
| Chlorophyll a | 0.70 | N/A | |
| Colour, True | 59 ± 6 | N/A | ≤ 15 |
| Conductivity (EC) | 49.5 ± 2.2 | N/A | |
| Cyanide, Total | < 0.0020 | 0.2 | |
| Nitrogen, Total Kjeldahl | 0.255 ± 0.056 | N/A | |
| pH | 7.41 ± 0.02 | N/A | 7.0 - 10.5 |
| Phosphorus, Total (as P) | 0.0153 ± 0.0020 | N/A | |
| Phosphorus, Total Dissolved | 0.0124 ± 0.0018 | N/A | |
| Turbidity | 1.16 ± 0.08 | | OG <1 |
| Calculated Parameters | Results (mg/L) | Maximum Acceptable Concentration (MAC) | Aesthetic Objective (AO) Operational Guideline (OG) |
| Hardness, Total | 23.4 | N/A | |
| Total Dissolved Solids | 27.3 | | <500 |
| Total Metals | Results (mg/L unless noted) | Maximum Acceptable Concentration (MAC) | Aesthetic Objective (AO) Operational Guideline (OG) |
| Aluminum, total | 0.104 ± 0.023 | no current guideline | OG < 0.1 |
| Antimony, total | < 0.00020 | 0.006 | |
| Arsenic, total | < 0.00050 | 0.01 | |
| Barium, total | 0.0125 ± 0.0018 | 1 | |
| Boron, total | < 0.0050 | 5 | |
| Cadmium, total | < 0.000010 | 0.005 | |
| Calcium, total | 6.65 ± 0.93 | no current guideline | |
| Chromium, total | <0.0005 | 0.05 | |
| Cobalt, total | < 0.00010 | no current guideline | |
| Copper, total | 0.00551 ± 0.00096 | 2 | <1 |
| Iron, total | 0.258 ± 0.054 | | ≤ 0.30 |
| Lead, total | < 0.00020 | 0.005 | |
| Magnesium, total | 1.64 ± 0.24 | no current guideline | |
| Manganese, total | 0.0184 ± 0.0181 | 0.12 | ≤ 0.02 |
| Mercury, total | < 0.000010 | 0.001 | |
| Molybdenum, total | 0.00034 ± 0.00011 | no current guideline | |
| Nickel, total | 0.00115 ± 0.00046 | no current guideline | |
| Potassium, total | 0.84 ± 0.19 | no current guideline | |
| Selenium, total | < 0.00050 | 0.05 | |
| Sodium, total | 1.65 ± 0.34 | | ≤ 200 |
| Strontium, total | 0.0371 ± 0.0048 | 7 | |
| Uranium, total | 0.000057 ± 0.000011 | 0.02 | |
| Zinc, total | < 0.0040 | | ≤ 5 |