



REGIONAL DISTRICT NORTH OKANAGAN

Whitevale Water Utility Water Quality Report for December 2022

The following is the water quality summary for the Whitevale Water (WVW) Utility.

1. Source

The WVW system draws raw water from a groundwater well, Well 2 (well plate identification number (WPID) 16643 and well tag number (WTN) 90803) which is then chlorinated and pumped into an in-ground concrete reservoir. Water is then pumped into the distribution system. Tables 1 and 2 summarize the results for bacterial and turbidity for the untreated water at the treatment plant.

Table 1 Whitevale Well 2 Bacteria

| Parameter | Laboratory | | # of Samples | # of Deviations | Result |
|-----------------------------|------------|------------|--------------|-----------------|--------|
| E.coli ¹ | Caro | CFU/100 mL | 1 | ----- | <1 |
| Total Coliform ¹ | Caro | CFU/100 mL | 1 | ----- | <1 |

¹Drinking Water Treatment Objectives (Microbiological) for Ground Water Supplies in BC (Sec 2.3): No detectable bacteria per 100 mL of drinking water. Where more than 1 sample is collected in a 30 day period the standard for total coliform is at least 90% of the samples may have no detectable total coliform per 100 mL and no sample has more than 10 total coliform bacteria per 100 mL.

Table 2 Whitevale Well 2 Turbidity

| Parameter | Laboratory | | # of Samples | # of Deviations | Min | Max | Average |
|------------------------|----------------------|-----|--------------|-----------------|------|------|---------|
| Turbidity ¹ | Operator Grab Sample | NTU | 9 | ----- | 0.05 | 0.07 | 0.07 |

¹WQ Deviation Response Plan - Turbidity > 1 NTU

2. Treatment Plant

The Whitevale Water Utility utilizes chlorine disinfection only. Table 3 summarizes chlorine and turbidity levels from the sample line that comes off the reservoir outlet pipe that feeds the distribution system.

Table 3 Whitevale Water Treatment Reservoir

| Parameter | Laboratory | | # of Samples | # of Deviations | Min | Max | Average |
|----------------------------|-------------------------------------|------|--------------|-----------------|------|------|---------|
| Free Chlorine ² | SCADA ¹ Daily Average | mg/L | 31 Days | ----- | 0.72 | 0.89 | 0.80 |
| Turbidity ² | SCADA ¹ Daily Average | NTU | 31 Days | ----- | 0.04 | 0.08 | 0.05 |

¹SCADA: Supervisory Control and Data Acquisition

²WQ Deviation Response Plan - Free Chlorine <0.20 mg/L; Turbidity > 1.0 NTU

3. Distribution

WVW provides potable water to 92 residential connections and 1 institutional connection (not in use, supplies storage for fire suppression). There are no large scale industrial or irrigation customers on this system. Table 4 summarizes the results for chlorine, turbidity, and bacteria for the distribution system. The monthly water volume used at Whitevale this month was 3,309 m³.

Table 4 Whitevale Distribution Parameters

| Parameter | Laboratory | | # of Samples | # of Deviations | Min | Max | Average |
|----------------------------|-------------------------|---------------|--------------|-----------------|------|------|---------|
| Free Chlorine ¹ | Operator Grab Sample | mg/L | 17 | ----- | 0.68 | 0.85 | 0.77 |
| Total Chlorine | Operator Grab Sample | mg/L | 17 | ----- | 0.71 | 0.93 | 0.83 |
| Turbidity ¹ | Operator Grab Sample | NTU | 17 | ----- | 0.06 | 0.08 | 0.07 |
| E.coli | Caro | CFU/100 mL | 4 | ----- | <1 | <1 | <1 |
| Total Coliform | Caro | CFU/100 mL | 4 | ----- | <1 | <1 | <1 |

¹WQ Deviation Response Plan - Free Chlorine <0.20 mg/L; Turbidity > 1.0 NTU

4. Customer Calls and Notifications

Customer calls within the Whitevale Water Utility service area are tracked and recorded. There was one customer call this month.

Table 5 Customer calls for the month

| # of Calls | Type of Call | Issue/Inquiry | Investigation | Comments |
|------------|--------------|----------------------|---------------|--|
| 1 | No Water | No water on property | Yes | Investigation found that the issue was isolated to the property and a private property issue |

5. Operational or Maintenance Activity

Operational activities within the Whitevale Water service area are tracked and recorded. There were no distribution operational activities this month.