



# REGIONAL DISTRICT NORTH OKANAGAN

## Whitevale Water Utility Water Quality Report for July 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 <sup>1</sup>	Caro	CFU/100 mL	1	-----	<1
Total Coliform <sup>1</sup>	Caro	CFU/100 mL	1	-----	<1

<sup>1</sup>Drinking 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 <sup>1</sup>	Operator Grab Sample	NTU	8	-----	0.05	0.08	0.07

<sup>1</sup>WQ 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 <sup>2</sup>	SCADA <sup>1</sup> Daily Average	mg/L	31 Days	-----	0.82	1.08	0.90
Turbidity <sup>2</sup>	SCADA <sup>1</sup> Daily Average	NTU	31 Days	-----	0.03	0.06	0.04

<sup>1</sup>SCADA: Supervisory Control and Data Acquisition

<sup>2</sup>WQ 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 6,038 m<sup>3</sup>.

**Table 4 Whitevale Distribution Parameters**

Parameter	Laboratory		# of Samples	# of Deviations	Min	Max	Average
Free Chlorine <sup>1</sup>	Operator Grab Sample	mg/L	16	-----	0.72	0.95	0.83
Total Chlorine	Operator Grab Sample	mg/L	16	-----	0.74	1.02	0.90
Turbidity <sup>1</sup>	Operator Grab Sample	NTU	16	-----	0.06	0.10	0.07
E.coli	Caro	CFU/100 mL	4	-----	<1	<1	<1
Total Coliform	Caro	CFU/100 mL	4	-----	<1	<1	<1

<sup>1</sup>WQ Deviation Response Plan - Free Chlorine <0.20 mg/L or >2.20 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 were no customer calls in July.

**5. Operational or Maintenance Activity**

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