



# REGIONAL DISTRICT NORTH OKANAGAN

## Whitevale Water Utility Water Quality Report for April 2019

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 which is then chlorinated and pumped into an in-ground concrete reservoir. Water is then pumped into the distribution system. Table 1 summarizes the results for bacterial and turbidity for the untreated water at the treatment plant.

**Table 1 Whitevale Well #2**

Parameter	Laboratory		# of Samples	# of Deviations	Min	Max	Average
E.coli <sup>2</sup>	Caro	CFU/100 mL	1	-----	<1	<1	<1
Total Coliform	Caro	CFU/100 mL	1	-----	<1	<1	<1
Turbidity <sup>1</sup>	Operator Grab Sample	NTU	2	-----	0.10	0.11	0.11

<sup>1</sup>Operation Guideline: As outlined in Deviation Response Plan, turbidity < 1 NTU

<sup>2</sup>Drinking Water Treatment Objectives\_ BC (Sec 4.3): Determine number of raw water samples with E. coli >20 CFU. The number of E. coli in raw water does not exceed 20/100 mL in at least 90% of the weekly samples from the previous six months.

### 2. Treatment Plant

The Whitevale Water Utility utilizes chlorine disinfection only. Table 2 summarizes chlorine levels from the sample line that comes off the reservoir outlet pipe that feeds the distribution system.

**Table 2 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	30 Days	-----	0.71	0.89	0.83

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

<sup>2</sup>WQ Deviation Response Plan - Free Chlorine <0.20 mg/L or >2.20 mg/L

### 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 3 summarize the results for chlorine, turbidity, and bacteria for the distribution system. The monthly water volume used at Whitevale in April was 2212 m<sup>3</sup>.

**Table 3 Whitevale Distribution Parameters**

Parameter	Laboratory		# of Samples	# of Deviations	Min	Max	Average
Free Chlorine	Operator Grab Sample	mg/L	6	-----	0.70	0.83	0.77
Total Chlorine	Operator Grab Sample	mg/L	6	-----	0.79	0.95	0.88
Turbidity	Operator Grab Sample	NTU	6	-----	0.10	0.11	0.11
E.coli	Caro	CFU/100 mL	4	-----	<1	<1	<1
Total Coliform	Caro	CFU/100 mL	4	-----	<1	<1	<1