



**REGIONAL  
DISTRICT  
NORTH  
OKANAGAN**

## **Outback Water System - Water Quality Report for July 2025**

### **1. Source**

The Outback water system consists of raw water pumps from Okanagan Lake, a screened intake, a booster station and a two-celled reservoir. The booster station houses the ultraviolet (UV) reactor, sodium hypochlorite injection (chlorine), instrumentation, and booster pumps. A raw (untreated) water sample is taken at the lake pump station once a month. Table 1 summarizes the results for bacterial, turbidity and UV Transmittance (UVT) for the untreated water at the lake pump station.

**Table 1 Outback Intake (untreated)**

Parameter	Laboratory		# of Samples	# of Deviations	Result	Min	Max	Average <sup>2</sup>
E.coli <sup>1</sup>	RDNO Lab	MPN/100 mL	2 <sup>3</sup>	----	----	<1	<1	<1
Total Coliform	RDNO Lab	MPN/100 mL	2 <sup>3</sup>	----	----	2.0	8.5	5.25
Turbidity	Operator Grab Sample	NTU	1	----	0.31	----	----	----

<sup>1</sup>Drinking Water Treatment Objectives\_ BC (Sec 4.3): The number of E. coli in raw water should not exceed 20/100 mL in at least 90% of the samples from the previous six months.

<sup>2</sup>Averages using non detect samples use ½ the reporting limit for the calculation.

<sup>3</sup>Samples include a duplicate sample taken for quality assurance purposes.

### **2. Treatment Plant**

The Outback water system uses UV and chlorine disinfection to meet dual disinfection goals. Table 2 summarizes results for chlorine, bacterial, turbidity, and UVT.

**Table 2 Outback Water Treatment Plant**

Parameter	Laboratory	Units	# of Samples	# of Deviations	Min	Max	Average
<b>Free Chlorine<sup>2</sup> (Reservoir)</b>	Operator Grab Sample	mg/L	5	----	1.41	1.78	1.55
<b>Free Chlorine<sup>2</sup> (Reservoir)</b>	SCADA <sup>1</sup> Daily Average	mg/L	31 Days	----	1.35	1.67	1.55
<b>Total Chlorine (Reservoir)</b>	Operator Grab Sample	mg/L	5	----	1.62	2.09	1.74
<b>E.coli (Reservoir)</b>	Caro	CFU/100 mL	5	----	<1	<1	<1
<b>Total Coliform (Reservoir)</b>	Caro	CFU/100 mL	5	----	<1	<1	<1
<b>Turbidity<sup>2</sup> (Reservoir)</b>	Operator Grab Sample	NTU	5	----	0.29	0.36	0.32
<b>Turbidity<sup>2</sup> (Reservoir)</b>	SCADA <sup>1</sup> Daily Average	NTU	31 Days	----	0.17	0.21	0.19
<b>UVT (Unfiltered) Booster<sup>3</sup></b>	SCADA <sup>1</sup> Daily Average	%	31 Days	----	80.14	91.09	89.29

<sup>1</sup>SCADA: Supervisory Control and Data Acquisition.<sup>2</sup>Operational guidelines based on GVW WQ Deviation Response Plan - free chlorine >0.50 mg/L turbidity <1 NTU.<sup>3</sup>UVT (Unfiltered) is recorded continuously while booster is both on and off and is not always a representation of the raw water.

### 3. Distribution

The Outback water system is owned and operated by Greater Vernon Water, a service of the Regional District of North Okanagan. The water system supplies bulk water from the reservoir to the Outback Resort. The Outback Resort water distribution system is a “stand alone system” and the responsibility of the owner/ operator (Strata). Greater Vernon Water does not monitor the water quality within the Outback Resort water distribution system. Table 3 summarizes the daily flow rates for the month.

**Table 3 Monthly Supply Volumes for Outback System over the Month**

Volumes	Outback
Min (ML/Day)	0.00
Max (ML/Day)	0.33
Average (ML/Day)	0.14
Monthly Total (ML)	4.16

#### 4. Water Quality Customer Calls and Notifications

There were no water quality customer calls from the Outback Resort this month.