



**REGIONAL
DISTRICT
NORTH
OKANAGAN**

Outback Water System - Water Quality Report for June 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 ²
E.coli ¹	RDNO Lab	MPN/100 mL	2 ³	----	----	<1	<1	<1
Total Coliform	RDNO Lab	MPN/100 mL	2 ³	----	----	4.1	6.3	5.2
Turbidity	Operator Grab Sample	NTU	1	----	0.30	----	----	----

¹Drinking 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.

²Averages using non detect samples use ½ the reporting limit for the calculation.

³Samples 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
Free Chlorine² (Reservoir)	Operator Grab Sample	mg/L	4	----	1.38	1.47	1.44
Free Chlorine² (Reservoir)	SCADA ¹ Daily Average	mg/L	30 Days	----	1.19	1.63	1.46
Total Chlorine (Reservoir)	Operator Grab Sample	mg/L	4	----	1.56	1.78	1.69
E.coli (Reservoir)	Caro	CFU/100 mL	4	----	<1	<1	<1
Total Coliform (Reservoir)	Caro	CFU/100 mL	4	----	<1	<1	<1
Turbidity² (Reservoir)	Operator Grab Sample	NTU	4	----	0.31	0.36	0.33
Turbidity² (Reservoir)	SCADA ¹ Daily Average	NTU	30 Days	----	0.18	0.25	0.21
UVT (Unfiltered) Booster³	SCADA ¹ Daily Average	%	30 Days	----	89.12	91.09	89.92

¹SCADA: Supervisory Control and Data Acquisition.²Operational guidelines based on GVW WQ Deviation Response Plan - free chlorine >0.50 mg/L turbidity <1 NTU.³UVT (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)	0.32
Average (ML/Day)	0.11
Monthly Total (ML)	3.40

4. Water Quality Customer Calls and Notifications

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