



**REGIONAL
DISTRICT
NORTH
OKANAGAN**

Outback Water System - Water Quality Report for April 2025

1. Source

The Outback water system pumps raw water from Okanagan Lake through a screened intake line to a booster station. The booster station houses the Ultraviolet reactor, sodium hypochlorite injection, instrumentation, and booster pumps to pump water to a two-celled reservoir. A raw (untreated) water sample is taken at the intake lake pump station approximately 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	----	----	<1	<1	<1
Total Coliform	RDNO Lab	MPN/100 mL	2	----	----	<1	1	<1
Turbidity	Operator Grab Sample	NTU	1	----	0.32	----	----	----

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.

2. Treatment Plants

The Outback water system uses Ultraviolet (UV) and chlorine disinfection. Table 2 summarizes results for chlorine, bacterial, turbidity, and UV Transmittance (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	5	----	1.26	1.58	1.39
Free Chlorine² (Reservoir)	SCADA ¹ Daily Average	mg/L	30 Days	----	1.13	1.69	1.42
Total Chlorine (Reservoir)	Operator Grab Sample	mg/L	5	----	1.48	1.78	1.62
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	5	----	0.22	0.30	0.26
Turbidity² (Reservoir)	SCADA ¹ Daily Average	NTU	30 Days	----	0.10	0.19	0.14
UVT (Unfiltered) Booster³	SCADA ¹ Daily Average	%	30 Days	----	85.92	90.96	89.44

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 (Strata). 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)	0.31
Average (ML/Day)	0.06
Monthly Total (ML)	1.72

4. Water Quality Customer Calls and Notifications

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