

Outback Water System - Water Quality Report for September 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.coli¹	RDNO Lab	MPN/100 mL	2 ³	-----	-----	<1	<1	<1
Total Coliform	RDNO Lab	MPN/100 mL	2 ³	-----	-----	<1	<1	<1
Turbidity	Operator Grab Sample	NTU	1	-----	0.35	-----	-----	-----

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 Chlorine ² (Reservoir)	Operator Grab Sample	mg/L	4	-----	1.08	1.47	1.28
Free Chlorine ² (Reservoir)	SCADA ¹ Daily Average	mg/L	30 Days	-----	0.98	1.47	1.21
Total Chlorine (Reservoir)	Operator Grab Sample	mg/L	4	-----	1.24	1.69	1.46
E.coli (Reservoir)	Caro	CFU/100 mL	4	-----	<1	<1	<1
Total Coliform (Reservoir)	Caro	CFU/100 mL	4	-----	<1	<1	<1
Turbidity ² (Reservoir)	Operator Grab Sample	NTU	4	-----	0.29	0.40	0.33
Turbidity ² (Reservoir)	SCADA ¹ Daily Average	NTU	30 Days	-----	0.15	0.22	0.18
UVT (Unfiltered) Booster ³	SCADA ¹ Daily Average	%	30 Days	-----	89.47	91.64	90.52

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)	0.37
Average (ML/Day)	0.06
Monthly Total (ML)	1.83

4. Water Quality Customer Calls and Notifications

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