



REGIONAL DISTRICT NORTH OKANAGAN

Mabel Lake Water (MLW) Utility Water Quality Report for May 2026

The following is the water quality summary for the Mabel Lake Water Utility (MLW).

1. Source

The MLW system draws raw water from Mabel Lake through a screened intake line to a clear well. Water from the clear well is chlorinated and pumped into a 526-meter-long pipe which provides chlorine contact time. Water then flows into the distribution system. Table 1 summarizes the results for bacterial and turbidity for the untreated water at the treatment plant.

Table 1 Mabel Lake Intake

Parameter	Laboratory		# of Samples	# of Deviations	Min	Max	Average ⁴
E.coli ³	RDNO Lab	CFU/100 mL	4	-----	<1	<1	<1
Total Coliform	RDNO Lab	CFU/100 mL	4	-----	<1	1.0	<1
Turbidity ²	SCADA ¹ Daily Average	NTU	31	-----	0.15	0.43	0.28
Turbidity ²	Operator Grab Sample	NTU	13	-----	0.32	0.75	0.40
UVT (unfiltered)	RDNO Lab	%	4	-----	90.6	91.4	90.9

¹SCADA: Supervisory Control and Data Acquisition.

²Operation Guideline: As outlined in Deviation Response Plan, turbidity < 1 NTU

³Drinking 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.

⁴Non-detect values are used at ½ the reporting limit for average calculations.

2. Treatment Plant

MLW utilizes chlorine disinfection only. Table 2 summarizes chlorine and turbidity levels from the pipe that flows into the distribution system.

Table 2 Mabel Lake Water Treatment

Parameter	Laboratory		# of Samples	# of Deviations	Min	Max	Average
Free Chlorine ²	SCADA ¹ Daily Average	mg/L	31	-----	1.29	1.74	1.66

¹SCADA: Supervisory Control and Data Acquisition.

²Operation Guideline: As outlined in Deviation Response Plan, free chlorine >0.20 mg/L and <2.20 mg/L; turbidity <1.0 NTU

3. Distribution

MLW provides potable water to 3 commercial and 373 residential connections. The majority of connected residents and all 3 commercial connections are seasonally occupied, with approximately 20 connections considered year-round or permanent. A Water System Capacity Assessment in 2025 estimated the population increases to an estimated three thousand one hundred and forty-five (3145) persons during peak summer months.

Table 3 summarizes the results for chlorine, turbidity, and bacteria for the distribution system. The monthly water volume used at Mabel Lake this month was 13,325 m³.

Table 3 Mabel Lake Distribution Parameters

Parameter	Laboratory		# of Samples	# of Deviations	Min	Max	Average
Free Chlorine ¹	Operator Grab Sample	mg/L	44	-----	0.61	1.54	1.03
Total Chlorine	Operator Grab Sample	mg/L	44	-----	0.67	1.63	1.14
Turbidity ¹	Operator Grab Sample	NTU	44	-----	0.27	0.59	0.38
E.coli	RDNO Lab	MPN/100 mL	8	-----	<1	<1	<1
Total Coliform	RDNO Lab	MPN/100 mL	8	-----	<1	<1	<1

¹Operation Guideline: As outlined in Deviation Response Plan, free chlorine >0.20 mg/L and <2.20 mg/L; turbidity <1.0 NTU

4. Water Quality Customer Calls and Notifications

Customer calls within the Mabel Lake Water Utility service area are tracked and recorded.

There were zero customer calls this month.

Table 4 Water Quality Customer Calls for the month

# of Calls	Issue/Inquiry	Investigation	Comments
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5. Operational or Maintenance Activity

Operational activities within the Mabel Lake Water service area are tracked and recorded in Table 5. There were twenty-four (24) operational activities this month.

Table 5 Monthly Operational Work and Maintenance

NUMBER OF LOCATIONS	TYPE OF WORK
0	Standpipe Maintenance
0	Water Service Locate
0	Water Main Break Repair
0	Water Service Install/Inspection
0	Water Turn On/Off
2	Water Service and/or Curb Stop Repair
8	Water Investigation
0	Reservoir Cleaning
7	Water Meter Install
0	Water Meter Inspection
0	Water Meter Maintenance
0	Water Meter Replacement
0	Water Meter Manual Read
7	ERT Install
0	ERT Inspection
0	ERT Maintenance
0	ERT Replacement
0	Facilities Maintenance