



# Township of Oro-Medonte Drinking Water Compliance Report 2025

## Maplewood Drinking Water System

Annual and Municipal Summary Reports

(Prepared in accordance with Section 11 and Schedule 22 of Ontario Regulation 170/03)

Period Covering: January 1 to December 31, 2025

February 11, 2026

# DRINKING WATER COMPLIANCE REPORT 2025

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# DRINKING WATER COMPLIANCE REPORT 2025

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## 1 Introduction

The Township of Oro-Medonte has prepared this report to satisfy the requirements of Section 11: Annual Report and Schedule 22: Summary Reports for Municipalities of Ontario Regulation (O.Reg.) 170/03.

This report covers the period of January 1 to December 31, 2025, and applies to the following municipally owned and operated drinking water system:

- Maplewood Drinking Water System (DWS #220004135)

## 2 Reporting Requirements

### 2.1 Requirements under Section 11: Annual Report

Section 11 of O.Reg. 170/03 requires that the Owner of a drinking water system shall ensure that an annual report, covering the period from January 1 to December 31 in a year, be prepared no later than February 28 of the following year. The report must include the following information relating to the period covered by the report:

- Include a statement of where a report prepared under Schedule 22 will be available for inspection by any member of the public during normal business hours without charge;
- Contain a brief description of the drinking water system, including a list of water treatment chemicals used by the system;
- Describe any major expenses incurred to install, repair or replace required equipment;
- Summarize any reports made to the Ministry of Environment, Conservation and Parks (MECP) for Adverse Water Quality Incidents (AWQIs);
- Summarize the results of tests required under O.Reg. 170/03, or under an approval, municipal drinking water licence or order, including an Ontario Water Resources Act order, if tests required under this Regulation in respect of a parameter were not required during that period, summarize the most recent results of tests of that parameter; and,
- Describe any corrective actions taken.

### 2.2 Requirements under Schedule 22: Summary Report for Municipalities

Schedule 22 of O.Reg. 170/03 requires that the report be prepared no later than March 31 of the following year, and include the following information relating to the period covered by the report:

- List the requirements of the Act, the regulations, the system’s approval, drinking water works permit, municipal drinking water licence, and any orders applicable to the system that were not met at any time during the period covered by the report with specifics to the duration and measures that were taken to correct the failure.
- The report must also include the following information to enable the Owner of the system to assess the capability of the system to meet existing and planned uses of the system:
  - Summarize of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows; and,
  - Compare the aforementioned summary of quantities and flow rates to the rated capacity and flow rates approved in the system’s approval, drinking water works permit or municipal drinking water licence.

### 3 Compliance Reporting Requirement

#### 3.1 Availability of the Drinking Water Compliance Report

In accordance with Section 11 of O.Reg. 170/03, a copy of the report is available to the public, free of charge from the following outlets:

- Township of Oro-Medonte’s website ([www.oro-medonte.ca](http://www.oro-medonte.ca)); and,
- Public request at the Municipal Office, located at 148 Line 7 South, Oro-Medonte.

The public is advised of the report’s availability and how to obtain a copy, without charge, on the Township of Oro-Medonte’s website through annual public reporting to Council and on the drinking water dedicated landing pages.

**4 Maplewood Drinking Water System**



## MAPLEWOOD

**Drinking Water System Number: 220004135**

**Raw Water Source: Groundwater**

**Drinking Water System Category: Small Municipal Residential**

**Drinking Water System Classification: Limited Groundwater Subsystem**

**Population Served: Approx. 196 persons**

**4.1 Municipal Drinking Water System Description**

Maplewood Drinking Water System (DWS # 220004135) is located at 40 Maplewood Parkway, Concession 15, Oro-Medonte. The facility is owned and operated by the Corporation of the Township of Oro-Medonte in accordance with its specific MDWL, DWWP, and PTTW and all other applicable legislation.

This groundwater facility consists of two production wells, process piping, and an in-ground reservoir. Raw water is conveyed to the wellhouse, where treatment includes chlorination with sodium hypochlorite. Primary disinfection is achieved through the CT disinfection concept using the combination of a disinfectant residual concentration and effective contact time by means of an in-ground dual celled 91m<sup>3</sup> reservoir. Two (2) high lift pumps distribute treated water into the distribution system based on system demand.

The distribution system consists of approximately 1.1km of watermain (ranging in size from 50mm to 150mm), seven (7) valves, three (3) sample stations servicing 56 residential homes.

The drinking water system’s operation is continuously monitored 24 hours a day, seven days a week through a computerized SCADA system, equipped with alarming for a certified water operator dispatch when operational issues arise. Emergency backup power is fulfilled through a 20 kW natural gas generator.

**4.2 Water Treatment Chemicals**

The following water treatment chemicals were utilized during the reporting period:

- Sodium Hypochlorite (12%)

**4.3 Major Expenses Incurred within the Drinking Water System**

The Township of Oro-Medonte has determined that expenses over \$25,000 are considered a ‘major expense’. A brief summary of the major or notable expenses incurred or during the reporting period to install, repair or replace required equipment, and the value of each is included in the table below.

**Table 1: Major or Notable Expense Summary**

<b>Expense</b>	<b>Cost Incurred</b>
Communication Upgrades (cost share for project across all municipal drinking water systems)	~ \$14,000
Well 2 Flowmeter Replacement	\$6,000

**4.4 Operational Checks, Sampling and Testing**

O.Reg. 170/03 outlines specific operational checks and sampling requirements for drinking water systems, while O.Reg. 169/03 specifies drinking water quality standards and maximum allowable concentrations of analytical parameters.

During the reporting period, the required operational checks were completed and drinking water samples were collected in accordance with O.Reg. 170/03. All accredited laboratory results for analyzed samples met the requirements and did not exceed the applicable standards stipulated in O.Reg. 169/03.

No additional testing and sampling was required in 2025 due to any requirements of an approval, order or other legal instrument.

**4.4.1 Schedule 7: Operational Checks (O.Reg. 170/03)**

Operational checks of measurements of free chlorine residuals and raw water turbidity were conducted in accordance with the small municipal residential drinking water system requirements as prescribed by O.Reg. 170/03, Schedule 7. No data is reported for fluoride as the Township of Oro-Medonte does not fluoridate any of its drinking water systems.

**Table 2: Schedule 7 - Operational Checks Summary**

<b>Parameter</b>	<b>Sample Count</b>	<b>Range of Results (min/avg/max)</b>
Raw Turbidity (NTU) – Well 1	12	0.27/0.48/0.69
Raw Turbidity (NTU) – Well 2	12	0.38/0.69/0.96

**Table 2: Schedule 7 - Operational Checks Summary (continued)**

Parameter	Sample Count	Range of Results (min/avg/max)
Chlorine (mg/L)	8760*	0.28/1.34/3.23**
Fluoride	N/A	N/A

\* 8760 is the number of samples used for continuous monitoring.

\*\* The range of chlorine results incorporates maintenance activities and operational testing. It does not necessarily reflect residuals within the distribution system.

**4.4.2 Schedule 11: Microbiological Sampling and Testing (O.Reg. 170/03)**

Raw, treated and distribution water samples were collected and analyzed for microbiological parameters specified in Sections 11-2, 11-3 and 11-4 of O.Reg. 170/03. All accredited laboratory results for samples analyzed for microbiological parameters met the requirements and did not exceed the applicable standards stipulated in O.Reg. 169/03, unless otherwise stated in Section 4.5.1 ‘Schedule 16: Reporting of Adverse Test Results and Other Problems’ of this report.

Raw, treated and distribution drinking water samples were analyzed for bacteriological health-related parameters, including E. coli, total coliform, background bacteria (background) and heterotrophic plate count (HPC). The presence of HPC and background bacteria when measured in counts greater than 200 CFU per 100 mL may be indicative of a deterioration in water quality within the drinking water system and initiate additional maintenance activities, such as flushing. The results for microbiological and bacteriological parameters during this reporting period are summarized below for reference.

**Table 3: Schedule 11 - Microbiological Sampling and Testing Summary**

Source		Sample Count	E.coli (CFU/100 mL)	Total Coliform (CFU/100 mL)	Background (CFU/100 mL)	HPC (CFU/1 mL)
			(min-max)	(min-max)	(min-max)	(min-max)
Raw	Well 1	26	0 – 0	0 – 0	0 – 12	N/A
	Well 2	26	0 – 0	0 – 0	0 – 29	N/A
Treated	-	26	0 – 0	0 – 0	0 – 1	N/A
Distribution	-	26	0 – 0	0 – 0	0 – 0	<10 – 10

**4.4.3 Schedule 13: Chemical Testing (O.Reg. 170/03)**

Drinking water samples were collected from the drinking water system and analyzed for all parameters in accordance with O.Reg. 170/03, Schedule 13. All samples analyzed met the requirements and did not exceed the applicable standards stipulated in O.Reg. 169/03.

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If chemical analysis under O.Reg. 170/03 was not required during this reporting period; the most recent analytical results for that parameter have been summarized in the tables below for reference, in accordance with O.Reg. 170/03, Section 11.

Under Sections 13-2 and 13-4, sampling requirements for inorganics and organics are once every 60 months and tested for every parameter listed in O.Reg 170/03, Schedules 23 and 24. Results indicated that all parameters were below half the maximum allowable concentration in Schedule 2 of the Ontario Drinking Water Quality Standards. The most recent chemical parameter results are summarized in the table below for reference. The next sampling will be due in 2026.

**Table 4: Schedule 23 - Inorganic and Schedule 24 - Organic Results Summary**

Parameter	Date Sampled	Results	Units	Exceedance
<b>Schedule 23: Inorganics</b>				
Antimony	2021/06/16	0.9<MDL	ug/L	No
Arsenic	2021/06/16	0.6	ug/L	No
Barium	2021/06/16	165	ug/L	No
Boron	2021/06/16	38	ug/L	No
Cadmium	2021/06/16	0.003<MDL	ug/L	No
Chromium	2021/06/16	0.33	ug/L	No
Mercury	2021/06/16	0.01<MDL	ug/L	No
Selenium	2021/06/16	0.04<MDL	ug/L	No
Uranium	2021/06/16	0.101	ug/L	No
<b>Schedule 24: Organics</b>				
Alachlor	2021/06/16	0.02<MDL	ug/L	No
Atrazine + N-dealkylated metabolites	2021/06/16	0.01<MDL	ug/L	No
Azinphos-methyl	2021/06/16	0.05<MDL	ug/L	No
Benzene	2021/06/16	0.32<MDL	ug/L	No
Benzo(a)pyrene	2021/06/16	0.004<MDL	ug/L	No
Bromoxynil	2021/06/16	0.33<MDL	ug/L	No
Carbaryl	2021/06/16	0.05<MDL	ug/L	No
Carbofuran	2021/06/16	0.01<MDL	ug/L	No
Carbon Tetrachloride	2021/06/16	0.17<MDL	ug/L	No
Chlorpyrifos	2021/06/16	0.02<MDL	ug/L	No
Diazinon	2021/06/16	0.02<MDL	ug/L	No
Dicamba	2021/06/16	0.20<MDL	ug/L	No
1,2-Dichlorobenzene	2021/06/16	0.41<MDL	ug/L	No
1,4-Dichlorobenzene	2021/06/16	0.36<MDL	ug/L	No
1,2-Dichloroethane	2021/06/16	0.35<MDL	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	2021/06/16	0.33<MDL	ug/L	No
Dichloromethane	2021/06/16	0.35<MDL	ug/L	No
2-4 Dichlorophenol	2021/06/16	0.15<MDL	ug/L	No

**Table 4: Schedule 23 - Inorganic & Schedule 24 Organic Results Summary (continued)**

Parameter	Date Sampled	Results	Units	Exceedance
<b>Schedule 24: Organics (continued)</b>				
2,4-Dichlorophenoxy acetic acid (2,4-D)	2021/06/16	0.19<MDL	ug/L	No
Diclofop-methyl	2021/06/16	0.40<MDL	ug/L	No
Dimethoate	2021/06/16	0.06<MDL	ug/L	No
Diquat	2021/06/16	1<MDL	ug/L	No
Diuron	2021/06/16	0.03<MDL	ug/L	No
Glyphosate	2021/06/16	1<MDL	ug/L	No
Malathion	2021/06/16	0.02<MDL	ug/L	No
Metolachlor	2021/06/16	0.01<MDL	ug/L	No
Metribuzin	2021/06/16	0.02<MDL	ug/L	No
Monochlorobenzene	2021/06/16	0.3<MDL	ug/L	No
MCPA	2021/06/16	0.00012<MDL	mg/L	No
Paraquat	2021/06/16	1<MDL	ug/L	No
Pentachlorophenol	2021/06/16	0.15<MDL	ug/L	No
Phorate	2021/06/16	0.01<MDL	ug/L	No
Picloram	2021/06/16	1<MDL	ug/L	No
Polychlorinated Biphenyls (PCB)	2021/06/16	0.04<MDL	ug/L	No
Prometryne	2021/06/16	0.03<MDL	ug/L	No
Simazine	2021/06/16	0.01<MDL	ug/L	No
Terbufos	2021/06/16	0.01<MDL	ug/L	No
Tetrachloroethylene	2021/06/16	0.35<MDL	ug/L	No
2,3,4,6-Tetrachlorophenol	2021/06/16	0.20<MDL	ug/L	No
Triallate	2021/06/16	0.01<MDL	ug/L	No
Trichloroethylene	2021/06/16	0.44<MDL	ug/L	No
2,4,6-Trichlorophenol	2021/06/16	0.25<MDL	ug/L	No
Trifluralin	2021/06/16	0.02<MDL	ug/L	No
Vinyl Chloride	2021/06/16	0.17<MDL	ug/L	No

Note: '<MDL' indicates the result was below the detection limit for the parameter's analysis method used by the external lab.

Under Sections 13-6 and 13-6.1, sampling requirements for trihalomethanes (THMs) and haloacetic acids (HAAs) are quarterly and expressed as a running annual average (RAA), that is updated continually as quarterly sample results are received.

Regulatory reporting requirements for HAAs and its associated calculated RAA of quarterly results commenced January 1, 2020, although Environmental Services has been actively calculating RAA since 2017 as a best management practice to evaluate the status of the parameter within the drinking water system.

The 2025 THMs and HAAs results are summarized in the table below for reference.

**Table 5: Trihalomethanes and Haloacetic Acids Results Summary**

Parameter	Running Annual Average (RAA)	Unit	Exceedance
Trihalomethanes (THMs)	13.50	ug/L	No
Haloacetic Acid (HAAs)	5.3<MDL	ug/L	No

Note: '<MDL' indicates the result was below the detection limit for the parameter's analysis method used by the external lab.

Under Section 13-7, sampling requirements for nitrate and nitrite are quarterly. The 2025 nitrate and nitrite results are summarized in the table below for reference.

**Table 6: Nitrate and Nitrite Results Summary**

Parameter	Date Sampled	Results	Unit	Exceedance
Nitrate	2025/02/26	0.006<MDL	mg/L	No
	2025/05/28	0.006<MDL	mg/L	No
	2025/08/27	0.006<MDL	mg/L	No
	2025/11/26	0.006<MDL	mg/L	No
Nitrite	2025/02/26	0.003<MDL	mg/L	No
	2025/05/28	0.003<MDL	mg/L	No
	2025/08/27	0.003<MDL	mg/L	No
	2025/11/26	0.003<MDL	mg/L	No

Note: '<MDL' indicates the result was below the detection limit for the parameter's analysis method used by the external lab.

Under Sections 13-8 and 13-9, sampling requirements for sodium and fluoride are once every 60 months. Sodium and fluoride sampling was completed in 2023, and the results are summarized in the table below for reference. The next sampling will be due in 2028.

**Table 7: Sodium and Fluoride Results Summary**

Parameter	Date Sampled	Results	Unit	Exceedance
Sodium	2023/08/29	28.0*	mg/L	Yes
Fluoride	2023/08/29	0.14	mg/L	No

\*Sodium exceedance and corrective actions were summarized in the 2023 Annual Report.

**4.4.4 Schedule 15.1: Lead Testing (O.Reg. 170/03)**

Lead samples are required to be collected from the drinking water system during the prescribed sampling periods of 'Winter' (December 15 to April 15) and 'Summer' (June 15 to October 15) in accordance with Schedule 15.1. The Maplewood Drinking Water System has met the eligibility criteria for a reduction in sampling requirements as

prescribed in Section 15.1-5. The distribution system sampling is required as follows:

- Alkalinity and pH each year, every “Winter” and “Summer” period
- Lead once every 3 years, “Winter” and “Summer” period

The 2025 alkalinity and pH results are summarized in Table 8 below for reference. Lead sampling was last required in 2024, and those results can be found in the annual Drinking Water Compliance Report for that year. The next alkalinity and pH sampling is scheduled for 2026, with the next round of lead sampling due in 2027.

**Table 8: Lead, Alkalinity, and pH Sampling Results Summary**

Location Type	Sample Count	Date Sampled	Lead (ug/L)	Alkalinity (mg/L as CaCO <sub>3</sub> )	pH	Exceedance
Plumbing	N/A	N/A	N/A	N/A	N/A	N/A
Distribution	1	2025/03/26	N/A	242	7.6	No
	1	2025/10/08	N/A	256	7.4	No

#### 4.5 Reporting and Corrective Actions

##### 4.5.1 Schedule 16: Reporting of Adverse Test Results and Other Problems

In accordance with O.Reg 170/03, Schedule 16, notifications of adverse water quality incidents and other observations that indicate the potential of improperly disinfected water has been directed to users are provided to the MECP Spills Action Centre (SAC) and local Medical Officer of Health (Simcoe Muskoka District Health Unit (SMDHU)). During this reporting period, there were zero (0) incidents in the drinking water system.

##### 4.5.2 Schedule 18: Corrective Actions

As no adverse test results or other reportable observations requiring reporting to the MECP occurred, no corrective actions were required.

**Table 9: Adverse Water Quality Incidents (AWQIs) & Corrective Actions Summary**

<b>AWQI Number:</b>
There were no AWQIs to report during this reporting period.
<b>Incident Details:</b>
N/A
<b>Corrective Action:</b>
N/A

**4.6 Municipal Summary Report**

**4.6.1 Schedule 22, Section 1**

The following table summarizes the requirements of the Act, the Regulations, the system’s approval, municipal drinking water licence, drinking water works permit, and any orders applicable to the system that were not met during the reporting period, including the duration and description of the corrective action(s) taken.

**Table 10: Regulatory Compliance Summary**

<b>Safe Drinking Water Act (SDWA) &amp; Associated Regulations</b>
<p>The 2024 MECP Inspection Report was received after the completion of the 2024 Drinking Water Compliance Report. During that reporting period, there were no issues or non-compliances identified, and a final inspection rating of 100% was received.</p> <p>From March 30 to April 4, 2025, an ice storm disrupted wellhouse communications. Technicians followed loss-of-communication procedures, conducting site visits to verify disinfection and record chlorine residuals for the period.</p> <p>No additional issues or non-compliances were identified during this reporting period.</p> <p>The 2025 MECP Drinking Water Inspection Report was received with a final inspection rating of 100%.</p>
<b>Municipal Drinking Water Licence &amp; Drinking Water Work Permit</b>
No issues or non-compliances were identified during this reporting period.
<b>Provincial Orders</b>
No provincial orders were issued during this reporting period.
<b>Best Practice Issues and Recommendations</b>
No recommendations or best practices were issued by MECP during this reporting period.

**4.6.2 Schedule 22, Section 2**

In order to assist the Township in assessing the capability of the system to meet existing and planned uses of the system, Appendix A and B summarize the quantities of water volumes supplied and offers a visual depiction of permitted water taking compared to drinking water system demands during the reporting period, including monthly average and maximum daily flows.

**5 Conclusion**

This report satisfies the requirements of Section 11 and Schedule 22 of O.Reg. 170/03. Any questions regarding this report should be directed to Environmental Services.

## **Appendix A – Well Flow Summary**

## Maplewood Well Flow Summary Table

	Well 1				Well 2			
	Permitted Capacity: 164 m <sup>3</sup> /day				Permitted Capacity: 164 m <sup>3</sup> /day			
	Total Flow (m <sup>3</sup> )	Average Day (m <sup>3</sup> )	Maximum Day (m <sup>3</sup> )	Max. Day/ Capacity (%)	Total Flow (m <sup>3</sup> )	Average Day (m <sup>3</sup> )	Maximum Day (m <sup>3</sup> )	Max. Day/ Capacity (%)
January	599.69	19.34	36.07	21.99	57.75**	1.86	18.02	10.99
February	579.08	20.68	32.19	19.63	0.97**	0.03	0.74	0.45
March***	346.78	11.19	26.22	15.99	261.23**	8.43	19.69	12.00
April***	311.12	10.37	22.81	13.91	335.37	11.18	24.52	14.95
May	332.70	10.73	19.90	12.13	395.02	12.74	34.83	21.24
June	464.35	15.48	29.09	17.74	410.12	13.67	29.97	18.28
July	926.18	29.88	48.11	29.33	270.73	8.73	40.22	24.52
August	796.12	25.68	55.66*	33.94	265.17	8.55	30.91	18.85
September	565.55	18.85	37.21	22.69	222.10	7.40	20.37	12.42
October	403.87	13.03	22.91	13.97	360.91	11.64	21.28	12.97
November	266.57	8.89	31.16	19.00	430.59	14.35	41.59*	25.36
December	663.82	21.41	32.12	19.59	33.96	1.10	16.53	10.08

\* Denotes month of maximum day flow for 2025.

\*\* Well 2 was offline for repairs January 16 to March 3, 2025.

\*\*\*From March 30 to April 4, 2025, an ice storm disrupted wellhouse communications. Technicians followed loss-of-communication procedures, conducting site visits to verify disinfection and record chlorine residuals for the period.

## **Appendix B – Average and Maximum Daily Usage Compared to Permitted Daily Capacity**

## Average and Maximum Daily Usage Compared to Permitted Daily Capacity

