

Township of Oro-Medonte Drinking Water Compliance Report 2023

Medonte Hills 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, 2023

February 28, 2024



DRINKING WATER COMPLIANCE REPORT 2023

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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, 2023, and applies to the following municipally-owned and operated drinking water system:

• Medonte Hills Drinking Water System (DWS #220003920)

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:

DRINKING WATER COMPLIANCE REPORT 2023



- 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 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); 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 and social media by February 28th, 2024.



4 Medonte Hills Drinking Water System



MEDONTE HILLS

Drinking Water System Number: 220003920 Raw Water Source: Groundwater Drinking Water System Category: Large Municipal Residential Drinking Water System Classification: Water Supply & Distribution Class 2 Population Served: Approx. 574 persons

4.1 Municipal Drinking Water System Description

The Medonte Hills Drinking Water System (DWS # 220003920) is located at 5341 Line 7 North, Concession 8, Oro-Medonte. The facility is owned and operated by the Corporation of the Township of Oro-Medonte in accordance with its specific MDWL, DWWP, PTTW, and all other applicable legislation.

This groundwater facility consists of two production wells, process piping, and an above-ground reservoir. Raw water is conveyed to the pumphouse, 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 a steel-bolted, glass fused 281m³ standpipe and chlorine contact main. Two (2) high lift pumps supply treated water into the two separate pressure zones (Top and Lower Zones) based on system demand in the distribution system. One (1) booster pumping station with 1 high lift pump and pressure tank located on Alpine Drive regulates pressure in the Top Zone.

The distribution system consists of approximately 3.7 km of watermain (ranging from 50mm to 150mm diameter), thirteen (13) valves, three (3) hydrants, and three (3) sample stations servicing approximately 164 residential homes.

Monitoring of the drinking water system's operation is 24 hours a day, seven days a week continuously 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 25 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 expenses over \$25,000 to be considered a 'major expense'. A brief summary of the major or notable expenses incurred 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

Expense	Cost Incurred
SCADA Software Upgrade	\$650
(\$7,000 cost shared by all drinking water systems)	ФО ОО

4.4 Ontario Regulation (O.Reg) 170/03: 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 2023 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 large 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.

Parameter	Sample Count	Range of Results (min/avg/max)
Raw Turbidity (NTU) – Well 1	12	0.09/0.18/0.30
Raw Turbidity (NTU) – Well 3	12	0.10/0.25/0.60
Chlorine (mg/L)	8760*	0.85/1.31/2.15**
Fluoride	N/A	N/A

Table 2: Schedule 7 Operational Checks Summary

* 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 Section 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 act as indicators that when measured in counts greater than 200 CFU per 100 mL, it 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.

Source		Sample Count	E.coli (CFU/100 mL) (min-max)	Total Coliform (CFU/100 mL) (min-max)	Background (CFU/100 mL) (min-max)	HPC (CFU/1 mL) (min-max)
Daw	Well 1	52	0 – 0	0 – 0	0 - 0	N/A
Raw	Well 3	52	0 - 0	0 - 0	0 - 0	N/A
Treated	-	52	0 - 0	0 - 0	0 - 0	<10 - 30
Distribution	-	104	0 - 0	0 - 0	0 – 2	<10 - 20

Table 3: Schedule 11 Microbiological Sampling and Testing Summary

Note: Total coliform results in raw drinking water samples are prior to treatment.



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.

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 Section 13-2 and 13-4, sampling requirements for inorganics and organics are once every 36 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 in the Ontario Drinking Water Quality Standards. The most recent chemical parameters results are summarized in the table below for reference.

Parameter	Date Sampled	Results	Units	Exceedance
Schedule 23: Inorganics				
Antimony	2021/06/16	0.9 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Arsenic	2021/06/16	0.2 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Barium	2021/06/16	69.2	ug/L	No
Boron	2021/06/16	7	ug/L	No
Cadmium	2021/06/16	0.003	ug/L	No
Chromium	2021/06/16	2.28	ug/L	No
Mercury	2021/06/16	0.01 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Selenium	2021/06/16	0.13	ug/L	No
Uranium	2021/06/16	0.607	ug/L	No
Schedule 24: Organics				
Alachlor	2021/06/16	0.02 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Atrazine + N-dealkylated metabolites	2021/06/16	0.01 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Azinphos-methyl	2021/06/16	0.05 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Benzene	2021/06/16	0.32 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Benzo(a)pyrene	2021/06/16	0.004 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Bromoxynil	2021/06/16	0.33 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Carbaryl	2021/06/16	0.05 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Carbofuran	2021/06/16	0.01 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Carbon Tetrachloride	2021/06/16	0.17 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Chlorpyrifos	2021/06/16	0.02 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Diazinon	2021/06/16	0.02 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Dicamba	2021/06/16	0.20 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
1,2-Dichlorobenzene	2021/06/16	0.41 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No

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

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,				
	21/06/16	0.36 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
1,2-Dichloroethane 20	21/06/16	0.35 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
1,1-Dichloroethylene (vinylidene chloride) 20	021/06/16	0.33 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Dichloromethane 20	21/06/16	0.35 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
2-4 Dichlorophenol 20	21/06/16	0.15 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D) 20	021/06/16	0.19 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Diclofop-methyl 20	21/06/16	0.40 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Dimethoate 20	21/06/16	0.06 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Diquat 20	21/06/16	1 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Diuron 20	21/06/16	0.03 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Glyphosate 20	21/06/16	1 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Malathion 20	21/06/16	0.02 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Metolachlor 20	21/06/16	0.01 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Metribuzin 20	21/06/16	0.02 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Monochlorobenzene 20	21/06/16	0.3 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
MCPA 20	21/06/16	0.00012 <mdl< td=""><td>mg/L</td><td>No</td></mdl<>	mg/L	No
Paraquat 20	21/06/16	1 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Pentachlorophenol 20	21/06/16	0.15 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Phorate 20	21/06/16	0.01 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Picloram 20	21/06/16	1 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Polychlorinated Biphenyls (PCB) 20	021/06/16	0.04 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Prometryne 20	21/06/16	0.03 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Simazine 20	21/06/16	0.01 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Terbufos 20	21/06/16	0.01 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Tetrachloroethylene 20	21/06/16	0.35 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
2,3,4,6-Tetrachlorophenol 20	21/06/16	0.20 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Triallate 20	21/06/16	0.01 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Trichloroethylene 20	21/06/16	0.44 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
2,4,6-Trichlorophenol 20	21/06/16	0.25 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Trifluralin 20	21/06/16	0.02 <mdl< td=""><td>ug/L</td><td>No</td></mdl<>	ug/L	No
Vinyl Chloride 20	21/06/16	0.17 <mdl< td=""><td>ug/L</td><td>No</td></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 13-6 and 13-6.1, sampling requirements for trihalomethanes (THMs) and haloacetic acids (HAAs) are quarterly and expressed as a running annual average (RAA), which 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 2023 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)	2.8	ug/L	No
Haloacetic Acid (HAAs)	5.3 <mdl< td=""><td>ug/L</td><td>No</td></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 2023 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
	2023/03/08	0.609	mg/L	No
Nitrate	2023/05/24	0.676	mg/L	No
Millale	2023/08/29	0.685	mg/L	No
	2023/12/05	0.589	mg/L	No
	2023/03/08	0.003 <mdl< td=""><td>mg/L</td><td>No</td></mdl<>	mg/L	No
Nitrite	2023/05/24	0.003 <mdl< td=""><td>mg/L</td><td>No</td></mdl<>	mg/L	No
INITILE	2023/08/29	0.003 <mdl< td=""><td>mg/L</td><td>No</td></mdl<>	mg/L	No
	2023/12/05	0.003 <mdl< td=""><td>mg/L</td><td>No</td></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 Section 13-8 and 13-9, sampling requirements for sodium and fluoride are once every 60 months. Sodium and fluoride sampling was completed 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	7.10	mg/L	No
Fluoride	2023/08/29	0.06	mg/L	No

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 Medonte Hills 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



Summarized in the table below are the 2023 total alkalinity and pH results for reference. Lead samples were last required to be sampled in 2021 and results can be referenced in the annual report for that year.

Location Type	Sample Count	Eodd		рН	Exceedance	
Plumbing	N/A	N/A	N/A	N/A	N/A	N/A
Distributio	2	2023/04/04	N/A	235 - 236	7.8*	No
n	2	2023/10/04	N/A	230 - 231	7.3*	No

Table 8: Alkalinity, pH and Lead Sampling Results Summary

*Results were identical in both samples collected.

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)). There were zero (0) incidents in the drinking water system during this reporting period.

4.5.2 Schedule 17: Corrective Actions

Due to the non-occurrence of any adverse test or other observations requiring reporting to the MECP, there were no corrective actions required.

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

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

Safe Drinking Water Act (SDWA) & Associated Regulations

At the time of this report's compilation, the 2023 MECP Inspection Report for this system had not yet been received.

The 2022 MECP Inspection Report was received after the completion of the 2022 Drinking Water Compliance Report. During that reporting period, there were no issues or non-compliances identified.

Municipal Drinking Water Licence & Drinking Water Work Permit

At the time of this report's compilation, the 2023 MECP Inspection Report for this system had not yet been received.

The 2022 MECP Inspection Report was received after the completion of the 2022 Drinking Water Compliance Report. During that reporting period, there were no issues or non-compliances identified.

Provincial Orders

At the time of this report's compilation, the 2023 MECP Inspection Report for this system had not yet been received.

The 2022 MECP Inspection Report was received after the completion of the 2022 Drinking Water Compliance Report. During that reporting period, there were no provincial orders identified.

Best Practice Issues and Recommendations

At the time of this report's compilation, the 2023 MECP Inspection Report for this system had not yet been received.

The 2022 MECP Inspection Report was received after the completion of the 2022 Drinking Water Compliance Report. During that reporting period, there were no best practices and/or recommendations identified.



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



		We	ell 1			We	ll 3		
	P	Permitted Capac	city: 327 m ³ /day	,	Permitted Capacity: 393 m ³ /day				
	Total Flow (m³)	Average Day (m ³)	Maximum Day (m ³)	Max. Day/ Capacity (%)	Total Flow (m³)	Average Day (m ³)	Maximum Day (m ³)	Max. Day/ Capacity (%)	
January	1190.40	38.40	64.59	19.75	1255.71	40.51	65.96	16.78	
February	1249.32	44.62	69.39	21.22	1070.81	38.24	72.47	18.44	
March	1510.84	48.74	75.07	22.96	1493.22	48.17	72.21	18.37	
April	1458.62	48.62	78.17	23.91	1431.33	47.71	76.62	19.50	
May	1461.84	47.16	104.54*	31.97	1348.89	43.51	82.32	20.95	
June	1371.51	45.72	75.01	22.94	1554.15	51.80	103.31*	26.29	
July	1401.25	45.20	74.91	22.91	1295.48	41.79	66.01	16.80	
August	965.61	31.15	60.67	18.55	1339.99	43.23	69.99	17.81	
September	615.88	20.53	35.33	10.81	1258.36	41.95	66.67	16.96	
October	435.79	14.06	31.62	9.67	1610.51	51.95	91.10	23.18	
November	200.15	6.67	21.02	6.43	1961.68	65.39	99.17	25.23	
December	397.87	12.83	29.01	8.87	1743.82	56.25	86.99	22.13	

* Denotes month of maximum day flow for 2023.

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



