



Township of Oro-Medonte Drinking Water Compliance Report 2020

Horseshoe Highlands 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, 2020

February 21, 2021

DRINKING WATER COMPLIANCE REPORT 2020

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DRINKING WATER COMPLIANCE REPORT 2020

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, 2020, and applies to the following municipally-owned and operated drinking water system:

- Horseshoe Highlands Drinking Water System (DWS #250001402)

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 17/03 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 was 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, 2021.

4 Horseshoe Highlands Drinking Water System



HORSESHOE HIGHLANDS

Drinking Water System Number: 250001402

Raw Water Source: Groundwater

Drinking Water System Category: Large Municipal Residential

Drinking Water System Classification: Water Supply & Distribution Class 2

Population Served: Approx. 2700 persons

4.1 Municipal Drinking Water System Description

The Horseshoe Drinking Water System (DWS #250001402) is located at 1A Country Club Lane, Concession 5, 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 chlorine contact main before entering the distribution system. 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 chlorine contact main. Treated water enters the distribution system and is stored in the Highland Drive Water Tower (1280 m³ capacity) and the Line 4 North Reservoir and Booster Station (two above-ground reservoirs with 769 m³ capacity each and 2 high lift pumps) to supply the distribution system and regulate system demands.

The distribution system consists of approximately 10 km of watermain (ranging in sizes from 150mm to 300mm), seventy-two (72) hydrants, fifty-four (54) valves, and two (2) sample stations supplying approximately 498 water services, including residential homes, Carriage Hills and Carriage Ridge Resort, fire hall, police station and nurse practitioner clinic.

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 455 kW natural gas generator at the pumphouse and a 400 kW diesel gas generator located at the Line 4 North Reservoir and Booster Station.

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 be 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

| Expense | Cost Incurred |
|--|----------------------|
| Zone 1 Integration (Watermain Crossing and Integration Costs) | ~ \$500,000 |
| SCADA Communication Modem Replacement | ~ \$2,000 |
| Elevated Tower ROV Inspection | ~ \$5,000 |

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 2020 due to any requirements of an approval, order or other legal instruments.

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.

Table 2: Schedule 7 Operational Checks Summary

| Parameter | Sample Count | Range of Results (min-max) |
|------------------------------|--------------|----------------------------|
| Raw Turbidity (NTU) – Well 1 | 12 | 0.05 – 0.33 |
| Raw Turbidity (NTU) – Well 3 | 12 | 0.06 – 0.63 |
| Chlorine (mg/L) | 8760* | 0.00 – 3.00** |
| Fluoride | n/a | n/a |

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

** The range of chlorine results incorporate 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 an indicator 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.

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 | 52 | 0 | 0 - 2 | 0 | - |
| | Well 3 | 52 | 0 | 0 | 0 - 1 | - |
| Treated | - | 52 | 0 | 0 | 0 | 0 - 30 |
| Distribution | - | 189 | 0 | 0 | 0 | 0 - 150 |
| Maintenance | - | 14 | 0 | 0 | 0 | - |

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.

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

| Parameter | Date Sampled | Results | Units | Exceedance |
|--------------------------------------|--------------|-----------|-------|------------|
| Schedule 23: Inorganics | | | | |
| Antimony | 2018/07/17 | 0.02<MDL | ug/L | No |
| Arsenic | 2018/07/17 | 0.2 | ug/L | No |
| Barium | 2018/07/17 | 39.0 | ug/L | No |
| Boron | 2018/07/17 | 9 | ug/L | No |
| Cadmium | 2018/07/17 | 0.004 | ug/L | No |
| Chromium | 2018/07/17 | 0.96 | ug/L | No |
| Mercury | 2018/07/17 | 0.01<MDL | ug/L | No |
| Selenium | 2018/07/17 | 0.21 | ug/L | No |
| Uranium | 2018/07/17 | 0.603 | ug/L | No |
| Schedule 24: Organics | | | | |
| Alachlor | 2018/05/28 | 0.02<MDL | ug/L | No |
| Atrazine + N-dealkylated metabolites | 2018/05/28 | 0.01<MDL | ug/L | No |
| Azinphos-methyl | 2018/05/28 | 0.05<MDL | ug/L | No |
| Benzene | 2018/05/28 | 0.32<MDL | ug/L | No |
| Benzo(a)pyrene | 2018/05/28 | 0.004<MDL | ug/L | No |
| Bromoxynil | 2018/05/28 | 0.33<MDL | ug/L | No |
| Carbaryl | 2018/05/28 | 0.05<MDL | ug/L | No |
| Carbofuran | 2018/05/28 | 0.01<MDL | ug/L | No |
| Carbon Tetrachloride | 2018/05/28 | 0.16<MDL | ug/L | No |
| Chlorpyrifos | 2018/05/28 | 0.02<MDL | ug/L | No |
| Diazinon | 2018/05/28 | 0.02<MDL | ug/L | No |
| Dicamba | 2018/05/28 | 0.20<MDL | ug/L | No |

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| | | | | |
|---|------------|-------------|------|----|
| 1,2-Dichlorobenzene | 2018/05/28 | 0.41<MDL | ug/L | No |
| 1,4-Dichlorobenzene | 2018/05/28 | 0.36<MDL | ug/L | No |
| 1,2-Dichloroethane | 2018/05/28 | 0.35<MDL | ug/L | No |
| 1,1-Dichloroethylene (vinylidene chloride) | 2018/05/28 | 0.33<MDL | ug/L | No |
| Dichloromethane | 2018/05/28 | 0.35<MDL | ug/L | No |
| 2,4-Dichlorophenol | 2018/05/28 | 0.15<MDL | ug/L | No |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 2018/05/28 | 0.19<MDL | ug/L | No |
| Diclofop-methyl | 2018/05/28 | 0.40<MDL | ug/L | No |
| Dimethoate | 2018/05/28 | 0.03<MDL | ug/L | No |
| Diquat | 2018/05/28 | 1<MDL | ug/L | No |
| Diuron | 2018/05/28 | 0.03<MDL | ug/L | No |
| Glyphosate | 2018/05/28 | 1<MDL | ug/L | No |
| Malathion | 2018/05/28 | 0.02<MDL | ug/L | No |
| Metolachlor | 2018/05/28 | 0.01<MDL | ug/L | No |
| Metribuzin | 2018/05/28 | 0.02<MDL | ug/L | No |
| Monochlorobenzene | 2018/05/28 | 0.3<MDL | ug/L | No |
| MCPA | 2018/05/28 | 0.00012<MDL | mg/L | No |
| Paraquat | 2018/05/28 | 1<MDL | ug/L | No |
| Pentachlorophenol | 2018/05/28 | 0.15<MDL | ug/L | No |
| Phorate | 2018/05/28 | 0.01<MDL | ug/L | No |
| Picloram | 2018/05/28 | 1<MDL | ug/L | No |
| Polychlorinated Biphenyls (PCB) | 2018/05/28 | 0.04<MDL | ug/L | No |
| Prometryne | 2018/05/28 | 0.03<MDL | ug/L | No |
| Simazine | 2018/05/28 | 0.01<MDL | ug/L | No |
| Terbufos | 2018/05/28 | 0.01<MDL | ug/L | No |
| Tetrachloroethylene | 2018/05/28 | 0.35<MDL | ug/L | No |
| 2,3,4,6-Tetrachlorophenol | 2018/05/28 | 0.20<MDL | ug/L | No |
| Triallate | 2018/05/28 | 0.01<MDL | ug/L | No |
| Trichloroethylene | 2018/05/28 | 0.44<MDL | ug/L | No |
| 2,4,6-Trichlorophenol | 2018/05/28 | 0.25<MDL | ug/L | No |
| Trifluralin | 2018/05/28 | 0.02<MDL | ug/L | No |
| Vinyl Chloride | 2018/05/28 | 0.17<MDL | ug/L | No |

*Note: '<MDL' indicates analysis did not meet the minimum reportable concentration for the parameter.

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.

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Summarized in the table below are the 2020 THMs and HAAs results for reference.

Table 5: Trihalomethanes and Haloacetic Acids Results Summary

| Parameter | Running Annual Average (RAA) | Unit | Exceedance |
|------------------------|------------------------------|------|------------|
| Trihalomethanes (THMs) | 2.1 | ug/L | No |
| Haloacetic Acid (HAAs) | 5.3<MDL | ug/L | No |

*Note: '<MDL' indicates analysis did not meet the minimum reportable concentration for the parameter.

Under Section 13-7, sampling requirements for nitrate and nitrite are quarterly. Summarized in the table below are the 2020 nitrate and nitrite results for reference.

Table 6: Nitrate and Nitrite Results Summary

| Parameter | Date Sampled | Results | Unit | Exceedance |
|-----------|--------------|-----------|------|------------|
| Nitrate | 2020/03/04 | 1.85 | mg/L | No |
| | 2020/05/12 | 1.82 | mg/L | No |
| | 2020/08/25 | 1.68 | mg/L | No |
| | 2020/12/10 | 1.89 | mg/L | No |
| Nitrite | 2020/03/04 | 0.003<MDL | mg/L | No |
| | 2020/05/12 | 0.003<MDL | mg/L | No |
| | 2020/08/25 | 0.003<MDL | mg/L | No |
| | 2020/12/10 | 0.003<MDL | mg/L | No |

*Note: '<MDL' indicates analysis did not meet the minimum reportable concentration for the parameter.

Under Section 13-8 and 13-9, sampling requirements for sodium and fluoride are once every 60 months. The most recent sodium and fluoride results are summarized in the table below for reference.

Table 7: Sodium and Fluoride Results Summary

| Parameter | Date Sampled | Results | Unit | Exceedance |
|-----------|--------------|---------|------|------------|
| Sodium | 2018/10/15 | 4.19 | mg/L | No |
| Fluoride | 2018/10/15 | 0.06 | mg/L | No |

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

Lead samples were 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 Horseshoe Highlands 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

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- Lead once every 3 years, “Winter” and “Summer” period

Summarized in the table below are the 2020 total alkalinity and pH results for reference. Lead was last required to be sampled in 2018 and results can be referenced in the annual report for that year.

Table 8: Alkalinity, pH and Lead Sampling Results Summary

| Location Type | Sample Count | Date Sampled | Alkalinity Results (mg/L) | pH Results | Exceedance |
|---------------|--------------|--------------|---------------------------|------------|------------|
| Plumbing | n/a | n/a | n/a | n/a | n/a |
| Distribution | 2 | 2020/04/08 | 152-153 | 7.71-7.74 | No |
| | 2 | 2020/10/09 | 165-168 | 7.76-7.8 | No |

*Note: Lead results can be found in the 2018 Annual Report.

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 and local Medical Officer of Health (Simcoe Muskoka District Health Unit). During this reporting period, were no such incidents or occurrences in the drinking water system.

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 # | Incident | Corrective Action |
|--------|----------|-------------------|
| N/A | N/A | 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 license 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 |
| <p>The Horseshoe Highlands Drinking Water System was inspected for the 2020 year, however, the final inspection report and results had not yet been received by the time of this report’s completion.</p> <p>As of January 2021, six (6) of the eleven (11) Township of Oro-Medonte drinking water systems had received 2020 MECP Drinking Water System Inspection Reports and were initially awarded an inspection rating of 100% by the MECP, however, were later retracted and re-issued in early February 2021 by MECP due to an encountered error in the original reports. The error resulted in a revised final inspection rating of 98.6% from the original 100% to reflect a sampling issue that took place during the 2018 “winter” sampling period (December 2017 to March 2018). The error was found through a follow-up MECP re-assessment of sampling and testing of lead that was not previously conducted during 2018 and 2019 MECP inspection audits.</p> <p>Although not yet received, the 2020 MECP Drinking Water System Inspection Report will most likely result in a similar rating as this drinking water system was affected by the same MECP and sampling error from 2018.</p> |
| Municipal Drinking Water Licence & Drinking Water Work Permit |
| No issues or non-compliances were identified during this reporting period. |
| Provincial Orders |
| No provincial orders were issued during this reporting period. |
| Best Practice Issues and Recommendations |
| No recommendations or best practices 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, Table 11 and Graph 1 in Appendix A summarizes the quantities of water volumes supplied and offers a visual depiction of allowed water taking compared to drinking water system demands during the reporting period, including monthly average and maximum daily flows.

5 Conclusion

It is the belief of the Township of Oro-Medonte that 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: TABLES & GRAPHS

Table 11: Well Flow Summary

| | Well 1 | | | | Well 3 | | | |
|-----------|--|-------------------------------|-------------------------------|-----------------------|--|-------------------------------|-------------------------------|-----------------------|
| | Approved Capacity: 3,371 m ³ /day | | | | Approved Capacity: 4,580 m ³ /day | | | |
| | Total Flow (m ³) | Average Day (m ³) | Maximum Day (m ³) | Max. Day/Capacity (%) | Total Flow (m ³) | Average Day (m ³) | Maximum Day (m ³) | Max. Day/Capacity (%) |
| January | 4328.93 | 139.64 | 334.22 | 10 | 5988.52 | 193.18 | 325.21 | 7 |
| February | 4626.63 | 159.54 | 322.59 | 10 | 5898.91 | 203.41 | 319.73 | 7 |
| March | 4556.22 | 146.97 | 248.24 | 7 | 5789.59 | 186.76 | 320.47 | 7 |
| April | 2541.10 | 84.70 | 401.59 | 12 | 6397.33 | 213.24 | 531.12 | 12 |
| May | 6288.96 | 202.87 | 401.58 | 12 | 7673.58 | 247.53 | 452.12 | 10 |
| June | 10252.16 | 341.74 | 621.78 | 18 | 13341.75 | 444.72 | 699.24 | 15 |
| July | 12913.79 | 416.57 | 808.79** | 24 | 16673.94 | 537.87** | 800.75 | 17 |
| August | 10810.90 | 348.74 | 604.16 | 18 | 13378.14 | 431.55 | 794.12 | 17 |
| September | 7692.75 | 256.43 | 595.78 | 18 | 8260.39 | 275.35 | 528.34 | 12 |
| October | 5609.91 | 187.00 | 452.37 | 13 | 6087.12 | 202.90 | 513.04 | 11 |
| November | 5734.01 | 204.79 | 501.44 | 15 | 3857.02 | 137.75 | 255.61 | 6 |
| December | 5985.27 | 193.07 | 517.38 | 15 | 5708.30 | 184.14 | 440.50 | 10 |

*Data was not available for October 31 and November 1 and was not included in reported flow volumes.

** Denotes month of maximum day flow for 2020.

Graph 1: Average and Maximum Daily Usage Compared to Permitted Daily Capacity

