



2024 SECTION 11 ANNUAL REPORT

OXENDEN
DISTRIBUTION SYSTEM

For the period of:
JANUARY 1, 2024 TO DECEMBER 31, 2024

Prepared for the Township of Georgian Bluffs by the Ontario Clean Water Agency



Drinking Water System Regulation: O. Reg 170/03
 Section 11 Annual Report: January 1, 2024 to December 31, 2024
 Township of Georgian Bluffs: Oxenden Distribution System

This report was prepared in accordance with the requirements of [O.Reg 170/03, Section 11, Annual reports](#) for the following system and reporting period:

Drinking Water System Number:	260004215
Drinking Water System Name:	Oxenden Distribution System
Drinking Water System Owner:	Township of Georgian Bluffs
Drinking Water System Category:	Large Municipal Residential
Reporting Period:	January 1, 2024 – December 31, 2024

Does your Drinking Water System serve more than 10,000 people?

No

Is your Annual Report available to the public at no charge on a website on the Internet?

Yes

Note: If a large municipal residential system serves more than 10,000 people, the owner of the system shall ensure that a copy of every report prepared under this section is available to the public at no charge on a website on the Internet. O. Reg. 170/03, Section 11. (10)

Location where Summary Report required under O. Reg 170/03, Schedule 22 will be available for inspection. (O. Reg 170/03, Section 11.(6)(5)):

- Georgian Bluffs Municipal Office, 177964 Grey Rd #18 RR#3, Owen Sound ON, N4K 5N5
- <https://www.georgianbluffs.ca/en/township-services/utilities-and-water.aspx>

Note: this is required for large municipal residential systems or small municipal residential systems.

List all Drinking Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
N/A	N/A

Did you provide a copy of your annual report to all Drinking Water System owners that are connected to you and to whom you provide all of its drinking water?

N/A

How system users are notified that the annual report is available, and is free of charge:

- | | |
|-------------------------------------|--|
| <input checked="" type="checkbox"/> | Public access/notice via the web |
| <input checked="" type="checkbox"/> | Public access/notice via Government Office |
| <input type="checkbox"/> | Public access/notice via a newspaper |
| <input checked="" type="checkbox"/> | Public access/notice via Public Request |
| <input type="checkbox"/> | Public access/notice via a Public Library |

Public access/notice via other method: _____

Note: The owner of a drinking water system shall ensure that a copy of an annual report for the system is given, without charge, to every person who requests a copy. ((O.Reg 170/03, Section 11.(7))

Description of Drinking Water System (O.Reg 170/03, Section 11.(6)(a)):

The Oxenden Water Distribution System (WDS) is classified as a Class I Distribution and Supply Subsystem and categorized as a Large Municipal Residential Distribution System under O.Reg 170/03, servicing an approximate population of 503 persons. The Oxenden Water Distribution System is owned by the Corporation of the Township of Georgian Bluffs and operated by the Ontario Clean Water Agency (OCWA) in Georgian Bluffs, Ontario.

The Oxenden Water Distribution System is supplied treated water from the Warton Water Treatment Plant which is owned by the Corporation of the Town of South Bruce Peninsula.

List of water treatment chemicals used by the system during the reporting period (O.Reg 170/03, Section 11.(6)(a)):

N/A

Significant expenses were incurred to:

- Install required equipment
- Repair required equipment
- Replace required equipment
- No significant expenses were incurred

Description of major expenses during the reporting period to install, repair or replace required equipment (O.Reg 170/03, Section 11.(6)(e)):

- Multiple distribution system parts

Summary of any reports/notices submitted to the Ministry and/or Spills Action Centre in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 during the reporting period, including a description of any corrective actions taken under Schedule 17 or 18 (O. Reg 170/03, Section 11.(6)(b),(d)):

Incident Date (yyyy/mm/dd)	Parameter/ Notice of	Result & Unit	Summary of Reporting, Corrective Actions & Resolution
N/A	N/A	N/A	N/A

Table 1. Microbiological testing done under the Schedule 11 of Regulation 170/03 during this reporting period (O.Reg 170/03, Section 11.(6)(c)).

Location	Number of Samples	Range of E. Coli or Fecal Results		Range of Total Coliform Results		Number of HPC Samples	Range of HPC Samples	
		Min.	Max.	Min.	Max.		Min.	Max.
Distribution ^{1a}	106	0	0	0	0	53	0	1

Note: HPC = Heterotrophic Plate Count

Note: Units for E.Coli or Fecal Results are cfu/100 mL, units for Total Coliform Results are cfu/100 mL, units for HPC results are cfu/1mL

^{1a}O.Reg. 170/03 Schedule 10-2.(1)(2)(3) requires that a system that serves 100,000 people or less, at least eight distribution samples, plus one additional sample for every 1,000 people served by the system to be taken every month, with at least one of the samples being taken in each week and be tested for E.Coli, Total Coliforms. At least 25 percent of the samples required must be tested for general bacteria population expressed as colony counts on heterotrophic plate count (HPC). The number of people served by the system is 503 (as confirmed with the Owner on April 26, 2023), and therefore requires at minimum eight (8) distribution samples per month.

Table 2. Operational testing done under Schedule 7 of Regulation 170/03 during the period covered by this Annual Report (O. Reg 170/03, Section 11.(6)(c)).

Parameter & Location	Number of Samples	Range of Results	
		Min.	Max.
Free Chlorine Residual, Distribution Water (mg/L) ^{2a}	419	0.22	1.36

^{2a}O.Reg 170/03 Schedule 7-2.(3) requires a large municipal residential system that provides secondary disinfection to take at least seven distribution samples each week and immediately tested for free chlorine residual, if the system provides chlorination and does not provide chloramination. Sampling for distribution free chlorine residual at Oxenden Drinking Water is taken twice a week as required.

Table 3. Summary of additional testing and sampling results carried out in accordance with the requirement of an approval, municipal drinking water licence or order (including OWRA) or other legal instrument. (O. Reg 170/03, Section 11.(6)(c))

Legal Instrument & Issue Date (yyyy/mm/dd)	Sample Location & Parameter	Sampling Frequency	Allowable Result	Actual Result & Date (yyyy/mm/dd)
N/A	N/A	N/A	N/A	N/A

Table 4. Summary of Inorganic parameters sampled during this reporting period or the most recent sample results (O.Reg 170/03, Section 11.(6)(c))

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Inorganic Parameters – TW ^{4a}	N/A	N/A	N/A	N/A

^{4a}Treated water inorganic testing is not applicable for Oxenden Distribution System as the system is supplied with treated water from the Wiarton Drinking Water System. Please refer to the 2024 Wiarton DWS Annual Report for a summary of the Treated Water Inorganic parameters tested for the water supplied to the Oxenden Distribution system.

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Aesthetic Objective (AO)	Exceedance	
				AO	> 20 mg/L
Sodium: Na (mg/L) – TW	N/A	N/A	200 ^{4b}	N/A	N/A

Note: MDL = Minimum Detection Limit

Note: Treated water sodium testing is not applicable for Oxenden Distribution System as the system is supplied with treated water from the Wiarton Drinking Water System. Please refer to Wiarton DWS Annual Report for 2024 for a summary of the Treated Water Inorganic parameters tested for the water supplied to the Oxenden Distribution system.

^{4b}There is no regulatory Maximum Allowable Concentration (MAC) Sodium. The aesthetic objective (AO) for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

Table 5: Summary of lead testing under Schedule 15.1 during this reporting period (O.Reg 170/03, Section 11.(6)(g))

Location/Type & Parameter	Number of Samples ^{5a}	Range of Results		Number of Lead Exceedances (MAC = 10 µg/L)
		Min.	Max.	
Period: January 1 to April 15				
Plumbing – Lead (µg/L) ^{5b}	N/A	N/A	N/A	N/A
Distribution – Lead (µg/L) ^{5c}	N/A	N/A	N/A	N/A
Distribution – Alkalinity (mg/L as CaCO ₃)	2	76	76	N/A
Distribution – pH	2	8.08	8.16	N/A
Period: June 15 to October 15				
Plumbing – Lead (µg/L) ^{5b}	N/A	N/A	N/A	N/A
Distribution – Lead (µg/L) ^{5c}	N/A	N/A	N/A	N/A
Distribution – Alkalinity (mg/L as CaCO ₃)	2	73	75	N/A
Distribution – pH	2	7.90	8.02	N/A
Period: December 15 to 31				
Plumbing – Lead (µg/L) ^{5b}	N/A	N/A	N/A	N/A

Drinking Water System Regulation: O. Reg 170/03
 Section 11 Annual Report: January 1, 2024 to December 31, 2024
 Township of Georgian Bluffs: Oxenden Distribution System

Location/Type & Parameter	Number of Samples ^{5a}	Range of Results		Number of Lead Exceedances (MAC = 10 µg/L)
		Min.	Max.	
Distribution – Lead (µg/L) ^{5c}	N/A	N/A	N/A	N/A
Distribution – Alkalinity (mg/L as CaCO ₃)	N/A	N/A	N/A	N/A
Distribution - pH	N/A	N/A	N/A	N/A

Note: this is required for large municipal residential systems, small municipal residential systems or non-municipal year-round residential system. (O.Reg 170/03, Section 11.(6)(g))

^{5a}*This system follows a reduced sampling schedule (O.Reg. 170/03, Section 15.1.5). The number of sampling points for the system is based on the population served by the system. The number of people served by the system is 503 (as confirmed with the Owner on April 26, 2023), and therefore requires 2 distribution sampling points per sampling period.*

^{5b}*Plumbing samples are not applicable as this system qualifies for the plumbing exemption per O. Reg 170/03 Schedule 15.1-5 (9) (10).*

^{5c}*This system follows a reduced sampling schedule (O.Reg 170/03, Section 15.1.5). Distribution lead samples are collected every 36 months. The most recent set of distribution lead samples were collected within the winter period of December 15, 2022 to April 15, 2023 and summer period of June 15, 2023 to October 15, 2023. The next set of distribution lead samples is scheduled to be collected within the winter period of December 15, 2025 to April 15, 2026 and summer period of June 15, 2026 to October 15, 2026.*

Table 6: Summary of Organic parameters sampled during this reporting period or the most recent sample results (O.Reg 170/03, Section 11.(6)(c)).

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Organic Parameters - TW ^{6a}	N/A	N/A	N/A	N/A
Trihalomethane: Total (ug/L) Annual Average - DW	2024 (Quarterly)	49.75	100.0	No
HAA Total (ug/L) Annual Average - DW	2024 (Quarterly)	18.15	80.0	No

Note: DW = Distribution Water, MDL = Minimum Detection Limit, MAC = Maximum Allowable Concentration

^{6a}*Treated water Organic testing is not applicable for Oxenden Distribution System as the system is supplied with treated water from the Warton Drinking Water System. Please refer to Warton DWS Annual Report for 2024 for a summary of the Treated Water Organic parameters tested for the water supplied to the Oxenden Distribution system.*

Table 7: List of Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards for the reporting period.

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result
N/A	N/A	N/A