



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

OXENDEN
DISTRIBUTION SYSTEM

Large Municipal Residential

SECTION 11
ANNUAL REPORT

For the period of
JANUARY 1, 2017 TO DECEMBER 31, 2017

| | |
|--|--------------------------------------|
| Drinking Water System Number: | 220004215 |
| 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, 2017 to December 31, 2017 |

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

No.

Is your annual report available to the public at no charge on a web site on the Internet?

Yes.

Location where the Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection:

Georgian Bluffs Municipal Office
177964 Grey Road #18
R.R. #3 Owen Sound, ON
N4K 5N5

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

n/a.

Did you provide a copy of the 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:

- Public access/notice via the web
- Public access/notice via Government Office
- Public access/notice via a newspaper
- Public access/notice via Public Request
- Public access/notice via a Public Library
- Public access/notice via other method: _____

Description of Drinking Water System:

Oxenden Distribution System is supplied by water from the Wiarton water treatment plant which is located in the Town of South Bruce Peninsula.

List of water treatment chemicals used during the reporting period:

n/a.

Significant expenses were incurred to:

| | |
|-------------------------------------|---------------------------------------|
| <input checked="" type="checkbox"/> | Install required equipment |
| <input checked="" type="checkbox"/> | Repair required equipment |
| <input checked="" type="checkbox"/> | Replace required equipment |
| <input type="checkbox"/> | No significant expenses were incurred |

Description of expenses:

| |
|---|
| <ul style="list-style-type: none"> Replaced flow meter. Installed new SCADA system that allows flows to be captured and monitored with enhanced precision and accuracy. Repaired leak. |
|---|

Details on the notices submitted in accordance with subsection 18 (1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre:

| Date of Incident | Parameter | Result | Unit of Measure | Corrective Action | Corrective Action Date |
|------------------|-----------|--------|-----------------|-------------------|------------------------|
| n/a | n/a | n/a | n/a | n/a | n/a |

Table 1. Microbiological testing done under Schedule 10, 11 or 12 of Regulation 170/03 during this reporting Period

| Location | Number of Samples | Range of E.coli Results | | Range of Total Coliforms Results | | Number of HPC Samples | Range of HPC Samples | |
|-------------------|-------------------|-------------------------|---------|----------------------------------|---------|-----------------------|----------------------|---------|
| | | Minimum | Maximum | Minimum | Maximum | | Minimum | Maximum |
| Raw Water (RW) | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| Treated (TW) | n/a | n/a | n/a | n/a | n/a | n/a | n/a | n/a |
| Distribution (DW) | 109 | 0 | 0 | 0 | 0 | 53 | 0 | 920 |

Table 2. Operational testing done under Schedule 7, 8 or 9 during the period covered by this Annual Report.

| | Number of Grab Samples | Range of Results | |
|--|------------------------|------------------|---------|
| | | Minimum | Maximum |
| Free Chlorine Residual, In-House (mg/L) - DW | 388 | 0.23 | 1.25 |

NOTE: Record the unit of measure if it is not milligrams per litre.

NOTE: For continuous monitors use 8760 as the number of samples

Table 3. Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.

| Date of Order of MDWL | Parameter | Date Sampled | Result | MDWL Allowable Annual Average Concentration |
|-----------------------|-----------|--------------|--------|---|
| n/a | n/a | n/a | n/a | n/a |

Table 4. Summary of Inorganic parameters tested during this reporting period or most recent sample results

| Parameter | Sample Date (yyyy/mm/dd) | Sample Result | Exceedance |
|-----------|--------------------------|---------------|------------|
| n/a | n/a | n/a | n/a |

Table 5. Summary of lead testing under Schedule 15.1 during this reporting period.

| Location Type | Number of Samples | Range of Lead Results | | Number of Exceedances |
|---------------------|-------------------|-----------------------|---------|-----------------------|
| | | Minimum | Maximum | |
| Plumbing | n/a | n/a | n/a | n/a |
| Distribution (µg/L) | 2 | 0.04 | 0.21 | 10 |
| Alkalinity (mg/L) | 2 | 71 | 73 | n/a |

NOTE: This system now qualifies for the plumbing exemption as per Ontario Regulation 170/03 Schedule 15.1-5 (9) (10). Two (2) distribution lead samples are only taken every 12 months. (i.e. 1 sample per period).

Table 6. Summary of Organic parameters sampled during this reporting period or most recent sample results.

| Parameter | Sample Date (yyyy/mm/dd) | Result Value | Exceedance |
|--|--------------------------|--------------|------------|
| Trihalomethane: Total (µg/L) Annual Average - DW | 2017 (Quarterly) | 43.75 | No |
| HAA Total (µg/L) Annual Average - DW | 2017 (Quarterly) | 17.25 | n/a* |

* The limit of 80 µg/L running annual average for HAAs does not come into force until 2020.

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

| Parameter | Result Value | Unit of Measure | Date of Sample |
|-----------|--------------|-----------------|----------------|
| n/a | n/a | n/a | n/a |

NOTE: This is required only if DWS category is large municipal residential, small municipal residential, large municipal non-residential, small municipal non-residential, large non municipal non-residential)