



Ontario Clean Water Agency
Agence Ontarienne Des Eaux



Annual Performance Report
Leamington Distribution System
Drinking Water System # 220004992
2019

Prepared for the Municipality of Leamington

By the Ontario Clean Water Agency
Sam Wen
Process & Compliance Technician
swen@ocwa.com
519-326-4447



ANNUAL REPORT

| | |
|--|--|
| Drinking-Water System Number: | 220004992 |
| Drinking-Water System Name: | Leamington Distribution System (Union WSS) |
| Drinking-Water System Owner: | The Municipality of Leamington |
| Drinking-Water System Category: | Large Municipal Residential |
| Period being reported: | 01-January-2019 to 31-December 2019 |

| | |
|--|---|
| <p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [X] No []</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No []</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> <p>Municipality of Leamington Office 111 Erie Street North, Leamington, ON N8H 2Z9</p> </div> | <p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served:</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">N/A</div> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [] No []</p> <p>Number of Interested Authorities you report to:</p> <div style="border: 1px solid black; padding: 2px; width: fit-content; margin: 5px auto;">N/A</div> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []</p> |
|--|---|

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? Yes [] No [N/A]



Indicate how you notified system users that your 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 _____

Describe your Drinking-Water System

A stand alone distribution system serving a population of approx 31,000 residents of the Municipality of Leamington.

List all water treatment chemicals used over this reporting period

N/A

Were any significant expenses incurred to?

- Install required equipment
- Repair required equipment
- Replace required equipment

Please provide a brief description and a breakdown of monetary expenses incurred

Water meter replacement and advanced metering infrastructure project \$3,163,230
Coronation Avenue watermain replacement project \$220,625

Provide 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

| Incident Date | Parameter | Result | Unit of Measure | Corrective Action | Corrective Action Date |
|---------------|-----------|--------|-----------------|-------------------|------------------------|
| None | | | | | |

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

| | Number of Samples | Range of E.Coli Or Fecal Results (min #)-(max #) Cfu/100ml | Range of Total Coliform Results (min #)-(max #) Cfu/100ml | Number of HPC Samples | Range of HPC Results (min #)-(max #) Cfu/100ml |
|-----|--|--|---|-----------------------|--|
| Raw | Please see the Annual Report for the Union Water Supply System # 210000853 | | | | |



| | | | | | |
|---------------------|--|-----|-----|-----|--------|
| Treated | Please see the Annual Report for the Union Water Supply System # 210000853 | | | | |
| Distribution | 510 | 0-0 | 0-0 | 255 | <10-30 |

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

| | Number of Grab Samples | Range of Results (min #)-(max #) |
|--|--|--|
| Turbidity | Please see the Annual Report for the Union Water Supply System # 210000853 | |
| Free Chlorine | 662 | Max: 1.39 mg/l Min: 0.45 mg/l Avg: 1.03 mg/l |
| Fluoride (If the DWS provides fluoridation) | N/A | |

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

2

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

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

| Date of legal instrument issued | Parameter | Date Sampled | Result | Unit of Measure |
|--|------------------|---------------------|---------------|------------------------|
| None | | | | |

Summary of Inorganic parameters tested during this reporting period or the most recent sample results

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|-----------------------|------------------|--------------|-----------------|------------|
| Nitrite | October 09 ,2019 | <0.1 | mg/L | No |
| Nitrate | October 09 ,2019 | 0.2 | mg/L | No |
| Nitrate + Nitrite (N) | October 09 ,2019 | 0.2 | mg/L | No |
| Ammonia (N) -Total | October 09 ,2019 | 0.05 | mg/L | No |

*only for drinking water systems testing under Schedule 15.2; this includes large municipal non-residential systems, small municipal non-residential systems, non-municipal seasonal residential systems, large non-municipal non-residential systems, and small non-municipal non-residential systems.

Summary of lead testing under Schedule 15.1 during this reporting period

(applicable to the following drinking water systems; large municipal residential systems, small municipal residential systems and non-municipal year-round residential systems)

| Location Type | Number of Samples | Range of Results (min#) – (max #) | | MAC (ug/L) | Number of Exceedances |
|------------------------------------|-------------------|-----------------------------------|---------|------------|-----------------------|
| | | Minimum | Maximum | | |
| Distribution – Lead Results (ug/L) | N/A | N/A | N/A | N/A | N/A |
| Distribution – Alkalinity (mg/L) | 8 | 76 | 79 | n/a | n/a |
| Distribution – pH In-House | 8 | 7.4 | 8.13 | n/a | n/a |

Summary of Organic parameters sampled during this reporting period or the most recent sample results

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance |
|--|----------------|--------------|-----------------|------------|
| THM (NOTE: show latest annual average) | Annual Average | 34.66 | ug/L | No |
| HAA (NOTE: show latest annual average) | Annual Average | 11.02 | ug/L | No |

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 |
|-----------|--------------|-----------------|----------------|
| None | | | |