



Ontario Clean Water Agency
Agence Ontarienne Des Eaux



Annual Summary Report

Lambton Area Water Supply System

2016

Prepared for the Lambton Area Water Supply System Board

By the Ontario Clean Water Agency

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SECTION 1

Statement of Compliance

This report is a summary of water quality information for the Lambton Area Water Supply System and published in accordance with Schedule 22 of Ontario's Safe Drinking Water Act, Ontario Regulation 170/03 for the reporting period of January 1, 2016 to December 31, 2016. The Lambton Area Water Supply System is categorized as a Large Municipal Residential Drinking Water System.

This report was prepared by the Ontario Clean Water Agency on behalf of the Lambton Area Water Supply System Board.

The Lambton Area Water Supply System was operated and maintained in such a manner that the water supplied to the consumers serviced by the system satisfied all the requirements in the Safe Drinking Water Act, the Certificate of Approval and the Municipal Drinking Water Licence. There was one adverse water quality events/non-compliance issue reported. The issue was a Total Coliform result of 1 cfu/ 100mL taken from the treated water tap at the Water Treatment Plant. The MOECC and the Local Public Health Unit were informed as required. A resample was taken and the result was found to be free of Total Coliform.

SECTION 2

Details of the non-compliance issues as well as how and when any non-compliance issues were corrected

| Incident Date | Parameter | Result | Unit of Measure | Corrective Action | Notice of Resolution |
|----------------------|---|---------------|------------------------|--|-----------------------------|
| Nov 14, 2016 | Treated Water Total Coliform | 1 | cfu/100mL | Resampled Nov 16, 2016 from Treated Water Tap | Nov 21, 2016 |

SECTION 3

Summary and discussion of quantity of water supplied

In accordance with Schedule 22-2 (3) “the report must also include the following information for the purpose of enabling the owner of the system to assess the capability of the system to meet existing and planned uses of the system.”

1. *A summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly average and maximum daily flows and daily instantaneous peak flow rate.*
2. *A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system’s approval must be discussed.*

The rated capacity specified in the Municipal Drinking Water Licence (Licence Number: 020-101) for the Lambton Area Water Supply System is 181,844 m³/day. The maximum treated daily flow for the reporting period was 90,959 m³/day on August 11, 2016. The rated capacity from the Municipal Drinking Water Licence was not exceeded.

The Permit to Take Water (Number 3657-7DJL86) states the maximum amount of water taken is 182,000,000 L/Day. The maximum amount of raw water taken in 2015 was 94,102,000 L on August 10, 2016. The Permit to Take Water limit was not exceeded.

Attached in Appendix A, are the average daily volume (m³), the maximum daily volume (m³) and the peak daily flow rate (L/sec) for treated water and raw. Also noted is the % of Design Volume for each.

The quantity of water supplied during the reporting period did not exceed the rated capacity of this facility.

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Appendix A

Lambton Area Water Supply System Annual Volume Record for 2016

Design Rated Capacity (Treated Flows): 181,844 m³/day

| Month | Average Daily Volume of Treated Water (m ³) | % of Design Volume | Maximum Daily Volume (m ³) | % of Design Volume | Peak Daily Rate (L/sec) | % of Design Rate of 2104 L/sec |
|-----------|---|--------------------|--|--------------------|-------------------------|--------------------------------|
| January | 46478 | 25.6 | 51695 | 28.4 | 849 | 40.3 |
| February | 46998 | 25.8 | 68068 | 37.4 | 881 | 41.9 |
| March | 45008 | 24.8 | 50570 | 24.8 | 911 | 43.3 |
| April | 46248 | 25.4 | 50734 | 27.9 | 836 | 39.7 |
| May | 55216 | 30.4 | 74421 | 40.9 | 1120 | 53.2 |
| June | 64741 | 35.6 | 77151 | 42.4 | 1168 | 55.5 |
| July | 68956 | 37.9 | 80599 | 44.3 | 1269 | 60.3 |
| August | 70902 | 39.0 | 90959 | 50.0 | 1215 | 57.8 |
| September | 57005 | 31.3 | 68886 | 37.9 | 991 | 47.1 |
| October | 50747 | 27.9 | 58096 | 31.9 | 943 | 44.8 |
| November | 47130 | 25.9 | 52638 | 28.9 | 894 | 42.5 |
| December | 45401 | 25.0 | 51850 | 28.5 | 843 | 40.0 |

Permit to Take Water Max Flow (Raw Water): 182,000 m³/day

| Month | Average Daily Volume of Raw Water (m ³) | % of Permit Volume | Maximum Daily Volume (m ³) | % of Permit Volume | Peak Daily Rate (L/sec) | % of Permit Rate of 2106 L/sec |
|-----------|---|--------------------|--|--------------------|-------------------------|--------------------------------|
| January | 49024 | 26.9 | 57752 | 31.7 | 668 | 31.7 |
| February | 49004 | 26.9 | 61446 | 33.8 | 711 | 33.8 |
| March | 48039 | 26.4 | 53149 | 29.2 | 615 | 29.2 |
| April | 49788 | 27.4 | 56625 | 31.1 | 655 | 31.1 |
| May | 55961 | 30.7 | 76556 | 42.1 | 886 | 42.1 |
| June | 64970 | 35.7 | 77369 | 42.5 | 895 | 42.5 |
| July | 70251 | 38.6 | 83196 | 45.7 | 963 | 45.8 |
| August | 71622 | 39.4 | 94102 | 51.7 | 1089 | 51.8 |
| September | 57220 | 31.4 | 69614 | 38.2 | 806 | 38.3 |
| October | 50524 | 27.8 | 57652 | 31.7 | 667 | 31.7 |
| November | 47308 | 26.0 | 54212 | 29.8 | 627 | 29.8 |
| December | 47790 | 26.3 | 52854 | 29.0 | 612 | 29.1 |

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