



Ontario Clean Water Agency
Agence Ontarienne Des Eaux



Annual Summary Report

Lambton Area Water Supply System

2017

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, 2017 to December 31, 2017. 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 were no adverse water quality events/non-compliance issues reported.

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
	Zero noted				

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 84,344 m³/day on June 11, 2017. 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 2017 was 89,833,000 L on August 1, 2017. 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 2017

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	44539	24.5	50741	27.9	788	37.5
February	43584	24.0	49092	27.0	785	37.3
March	42952	23.6	47133	25.9	861	40.9
April	43704	24.0	49777	27.4	793	37.7
May	49206	27.1	62647	34.5	833	40.0
June	62070	34.1	84344	46.4	1116	53.0
July	64544	35.5	82949	45.6	1410	67.0
August	65011	35.8	82934	45.6	1446	68.7
September	56704	31.2	70253	38.6	1447	68.8
October	48019	26.4	56655	31.2	799	38.0
November	45869	25.2	51167	28.1	784	37.3
December	46249	25.4	53740	30.0	801	38.0

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	46242	25.4	53028	29.1	733	34.5
February	45214	24.8	51358	28.2	735	34.5
March	44444	24.4	51083	28.1	1146	54.4
April	44999	24.7	52445	28.8	738	35.0
May	49874	27.4	57210	31.4	736	35.0
June	61365	33.7	87342	48.0	1476	70.0
July	64515	35.5	85261	46.8	1068	50.7
August	65399	35.9	89833	49.4	1049	49.8
September	57260	31.5	72239	40.0	1054	50.0
October	48473	26.6	62796	34.5	724	34.4
November	46936	25.8	53136	29.2	1049	49.8
December	47225	25.9	59491	32.7	736	34.9