



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

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January 22, 2022

Mr. Andy Graf
Manager, Environmental Services
Town of Essex
120 Sinasac St.
P.O. Box 359
Harrow, ON N0R 1G0

Dear Mr. Graf:

Re: Safe Drinking Water Act, O. Reg. 170/03 Schedule 22 Summary Report

Attached is the 2021 Summary Report for the Harrow-Colchester South Water Treatment Plant. This report has been completed based on the information obtained from the water treatment plant records and in accordance with Schedule 22 of O. Reg. 170/03, under the Safe Drinking Water Act, which requires a Summary Report to be prepared not later than March 31st of each year for the preceding calendar year. This report covers the period of January 1 to December 31, 2021.

Please remember that any Orders that you have received directly from the MECP should be reviewed. Where non-compliance with the Order is evident and it is not included in the attached 2021 Summary Report, then we recommend that this information be added to the Summary Report. Note: Schedule 22-2 (a) specifies that the summary report is given to, in the case of a drinking water system owned by a municipality, the members of the municipal council for the Town of Essex, and is not intended for distribution to the Ministry of the Environment.

After your review and inclusion of any additional information, these Summary Reports are to be provided to the members of the municipal council. Please ensure this distribution.

Section 12 of O. Reg. 170/03, requires the Summary Reports be made available for inspection by any member of the public during normal business hours without charge. The reports should also be made available for inspection at the office of the municipality or at a location that is reasonably convenient to the users of the water system.

Sincerely,

Warren Higgins
PCT, Ontario Clean Water Agency

cc: Doug Sweet, Chief Administrative Officer, Town of Essex
Kevin Girard, Director, Infrastructure Services, Town of Essex
Dave Jubenville, Regional Hub Manager, OCWA
Karen Burgess, Senior Operations Manager, OCWA



Ontario Clean Water Agency
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Annual Summary Report

Harrow-Colchester South Water Treatment Plant

2021

Prepared for: The Corporation of the Town of Essex

By: Warren Higgins
Ontario Clean Water Agency

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SECTION 1

Compliance with the Safe Drinking Water Act and Regulation 170/03

This report is a summary of water quality information for the Harrow-Colchester South Water Treatment Plant 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, 2021 to December 31, 2021. The Harrow-Colchester South Water Treatment Plant is categorized as a Large Municipal Residential Drinking Water System.

This report was prepared by the Ontario Clean Water Agency on behalf of the Town of Essex.

Compliance with the Municipal Drinking Water License 029-101

The Harrow-Colchester South Water Treatment Plant 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 Regulations and the MDWL 029-101.

SECTION 2

Non-Compliance with the Safe Drinking Water Act, Regulation 170/03, MDWL & DWWP

No Safe Drinking Water Act non-compliances occurred in 2021

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 License 029-101 for the Harrow-Colchester South Water Treatment Plant is 10,228 m³/day. The maximum daily flow for the reporting period was 5,087 m³/day on May 22, 2021.

The Permit to Take Water (Number 4088-9KDN6D) states the maximum amount of water taken is 21,154 L/min and 30,458,000 L/day. The maximum amount of water flow taken in 2021 was 6,420 L/min on June 17. The maximum amount of water taken in 2021 was 5,087,000 L/day on May 22. The Permit to Take Water limit was not exceeded during this reporting period.

Attached in Appendix A, are the average daily volume (m³) and maximum daily volume (m³). 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.

Appendix A

Harrow-Colchester South Water Treatment Plant Annual Volume Record for 2021

Design Treated Flows: 10, 228 m³/day

Month	Average Daily Volume(m ³)	Design Volume	Maximum Daily Volume(m ³)	Design Volume
January	2,257	22 %	2,612	26 %
February	2,612	26 %	2,996	29 %
March	2,938	29 %	3,191	31 %
April	2,906	28 %	3,281	32 %
May	3,388	33 %	4,562	45 %
June	3,629	35 %	4,467	44 %
July	3,550	35 %	4,220	41 %
August	3,687	36 %	4,193	41 %
September	3,421	33 %	4,034	39 %
October	2,835	28 %	3,280	32 %
November	2,649	26 %	2,914	28 %
December	2,545	25 %	2,803	27 %