



**Ontario Clean Water Agency**  
**Agence Ontarienne Des Eaux**

February 22, 2019

Rob Johnson  
Director of Physical Services  
87 John Street South  
Aylmer, ON N5H 2C3

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

Dear Mr. Johnson,

Attached is the 2018 Summary Report for the Malahide Distribution System. This report is completed in accordance with Schedule 22 of O. Reg. 170/03, under the Safe Drinking Water Act.

This Summary Report is to be provided to the members of the municipal council by March 31<sup>st</sup>, 2019.

We recently forwarded a copy of the 2018 Annual Report for the Malahide Distribution System required under Section 11 of O. Reg. 170/03. Section 12 of O. Reg. 170/03, requires both the Summary Report and Annual Report be made available for inspection by any member of the public during normal business hours, without charge. The reports should be made available for inspection at the office of the township, or at a location that is reasonably convenient to the users of the water system.

Please feel free to contact me should you require any additional information regarding these reports. I can be reached at 226-377-3563.

Sincerely,

A handwritten signature in black ink that reads "Cindy Sigurdson".

Cindy Sigurdson  
Safety, Process and Compliance Manager

c.c. Dale LeBritton, OCWA's Regional Hub Manager  
Mike Taylor, OCWA's Senior Operations Manager  
Sam Gustavson, Malahide's Water/Wastewater Operations Manager



**Ontario Clean Water Agency  
Agence Ontarienne Des Eaux**

**Annual Summary Report**  
**For the**  
**Malahide Distribution System**  
**2018**

**Prepared for the Township of Malahide  
By the Ontario Clean Water Agency**

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3	<b>Corrective Actions</b>  Schedule 22-2 (2)(b) For each requirement referred to in section 2 that was not met, specify the duration of the failure and the measures that were taken to correct the failure.	1
4	<b>Flow Summary</b> Schedule 22-2 (3) <ol style="list-style-type: none"> <li>1. A summary of the quantities and flow rates of the water supplied during the period covered by the report, including monthly total and monthly average daily flows.</li> <li>2. A comparison of the summary referred to in paragraph 1 to the rated capacity and flow rates approved in the system's approval, drinking water works permit or municipal drinking water licence, or if the system is receiving all of its water from another system under an agreement pursuant to subsection 5 (4), to the flow rates specified in the written agreement.</li> </ol>	1
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## **SECTION 1: Overview of System**

This summary report for the Malahide Distribution System is published in accordance with Schedule 22 of Ontario's Drinking Water Systems Regulation for the reporting period of January 1<sup>st</sup>, 2018 to December 31<sup>st</sup>, 2018. The Malahide Distribution System (waterworks number 260004774) is categorized as a Large Municipal Residential Drinking Water System.

This report was prepared by the Ontario Clean Water Agency on behalf of the Township of Malahide and must be supplied to the municipal council by March 31, 2019.

## **SECTION 2: Compliance with Regulations**

The Malahide Water Distribution Supply System was operated and maintained in such a manner, that water supplied to the consumers serviced by the system satisfied the requirements in the Safe Drinking Water Act, the regulations, and the system's Municipal Drinking Water Licence (051-101) and Drinking Water Works Permit (051-201).

There were no Adverse Drinking Water Quality Incidents (AWQI) reported during this reporting period. The Ministry of the Environment, Conservation and Parks (MECP) conducted the routine annual inspection on May 25<sup>th</sup>, 2018. The inspecting officer, Meghan Morgan, found no non-compliances with the regulatory requirements.

## **SECTION 3: Corrective Actions**

The routine MECP Inspections have an Inspection Rating Record, which evaluates the system to provide information for the owner/operator on areas that need to be improved. The particular areas that were evaluated for the Malahide Distribution System were: Treatment Process, Distribution System, Operations Manuals, Logbooks, Certification and Training, Water Quality Monitoring, Reporting and Corrective Actions and Treatment Process Monitoring. This system received 0 out of 150 non-compliance ratings and as such received 100% for the Final Inspection Rating.

## **SECTION 4: Summary and Discussion of Quantity of Water Supplied**

The Malahide Distribution System consists of a number of tertiary mains throughout the Township. Flow rates are measured throughout the distribution system.

Attached as Appendix A is a summary of flows including total and average daily flows for the reporting period at the Copenhagen Booster Pumping Station. The Copenhagen Booster Pumping Station daily average flow for the reporting period was 67m<sup>3</sup>/day, which is a 2.2% increase from 2017.

Attached as Appendix B are the remaining flow readings for the Malahide Distribution System. The total flow supplied to the system was 165,352m<sup>3</sup>, which corresponds to a 4% decrease from 2017.

## APPENDIX A

The table below is a summary of quantities and flow rates from the Copenhagen Booster Station for 2018 compared to 2017 values.

<b>Month</b>	<b>2018 Total Flow (m<sup>3</sup>)</b>	<b>2017 Total Flow (m<sup>3</sup>)</b>	<b>2018 Average Day Flow (m<sup>3</sup>/day)</b>	<b>2017 Average Day Flow (m<sup>3</sup>/day)</b>	<b>Difference between 2018 and 2017 (%)</b>
January	1,695	1,531	56.5	51.0	10.7
February	1,929	1,615	64.3	53.8	19.4
March	1,753	1,612	58.4	53.7	8.7
April	1,714	1,906	57.1	63.5	-10.1
May	2,149	2,180	71.6	72.7	-1.4
June	3,580	2,307	119.3	76.9	55.2
July	2,281	2,756	76.0	91.9	-17.2
August	2,262	2,390	75.4	79.7	-5.4
September	1,528	2,221	50.9	74.0	-31.2
October	2,218	1,728	73.9	57.6	28.4
November	1,447	1,705	48.2	56.8	-15.1
December	1,894	1,979	63.1	66.0	-4.3
<b>Total Flow</b>	24,450	23,930			2.2
<b>Average</b>	2,038	1,994	67.0	65.6	
<b>Maximum</b>	3,580	2,756	119.3	91.9	

## APPENDIX B

The table below is a summary of quantities of flow for water usage throughout Malahide (excluding Copenhagen) in 2018 compared to 2017.

Month	2018 Total Flow (m <sup>3</sup> )	2017 Total Flow (m <sup>3</sup> )	2018 Average Day Flow (m <sup>3</sup> /d)	2017 Average Day Flow (m <sup>3</sup> /d)	Difference between 2018 and 2017 Flows (%)
Talbot Street East	4,235	11,100	11.6	30.4	-61.8
Dingle Street	72,026	77,084	197.3	211.2	-6.6
Talbot Street West	6,421	6,774	17.6	18.6	-5.4
PB01 (Rush Creek)	4,058	3,187	11.1	8.7	27.8
PB02 (Port Bruce)	11,841	13,297	32.4	36.4	-10.9
Dexter and Imperial	9,393	6,496	25.7	17.8	44.6
Copenhagen Booster	24,450	23,930	67.0	65.6	2.1
Main Line (PB Sec)	28,165	27,080	77.2	74.2	4.0
Waneeta Beach	1,122	1,011	3.1	2.8	9.8
Rogers	2,504	499	6.9	1.4	401.8
Norton/ Church	1,137	1,170	3.1	3.2	-2.8