



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

March 6, 2015

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 2014 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>; I have emailed copies of the report to each council member as provided by Mike Taylor.

We recently forwarded a copy of the 2014 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  
Process and Compliance Technician

c.c. Dale LeBritton, OCWA's Senior Operations Manager  
Sam Sianas, OCWA's Operations Manager (A)  
Mike Taylor, Malahide's Water/Wastewater Operations Manager



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

**Annual Summary Report**  
**For the**  
**Malahide Distribution System**  
**For the Year**  
**2014**

**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>, 2014 to December 31<sup>st</sup>, 2014. 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, 2015.

## **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 (Issue 1, 051-101) and Drinking Water Works Permit (Issue 1, 051-201).

There were no Adverse Drinking Water Quality Incidents (AWQI) reported during this reporting period. The Ministry of the Environment and Climate Change (MOECC) conducted the routine annual inspection on September 9<sup>th</sup>, 2014. The inspecting officer, Stephen Dunn, found no non-compliances with the regulatory requirements.

## **SECTION 3: Corrective Actions**

The routine MOE 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 229 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 56.4m<sup>3</sup>/day, which is a 0.5% decrease from 2013.

Attached as Appendix B are the remaining flow readings for the Malahide Distribution System. The total flow (including Copenhagen) supplied to the system was 159,363m<sup>3</sup>, which corresponds to a 12.5% increase from 2013.

## APPENDIX A

The table below is a summary of quantities and flow rates from the Copenhagen Booster Station for 2014 compared to 2013 values.

<b>Month</b>	<b>2014 Total Flow (m<sup>3</sup>)</b>	<b>2013 Total Flow (m<sup>3</sup>)</b>	<b>2014 Average Day Flow (m<sup>3</sup>)</b>	<b>2013 Average Day Flow (m<sup>3</sup>)</b>	<b>Difference between 2014 and 2013 (%)</b>
January	1,480	1,253	47.7	40.4	18.2
February	1,303	1,126	46.5	40.2	15.8
March	2,130	1,364	68.7	44.0	56.2
April	1,671	1,256	55.7	41.9	32.9
May	1,673	1,873	54.0	60.4	-10.6
June	1,923	1,658	64.1	55.3	15.9
July	1,889	1,938	60.9	62.5	-2.5
August	1,615	2,055	52.1	66.3	-21.4
September	1,552	2,193	51.7	73.1	-29.2
October	1,689	2,365	54.5	76.3	-28.6
November	1,432	1,942	47.7	64.7	-26.2
December	2,246	1,694	72.5	54.6	32.7
<b>Total Flow</b>	20,602	20,717			
<b>Average</b>			56.4	56.7	-0.5

## APPENDIX B

The table below is a summary of quantities of flow for water usage throughout Malahide (excluding Copenhagen) in 2014 compared to 2013.

Month	2014 Total Flow (m <sup>3</sup> )	2013 Total Flow (m <sup>3</sup> )	2014 Average Day Flow (m <sup>3</sup> )	2013 Average Day Flow (m <sup>3</sup> )	Difference between 2014 and 2013 Flows (%)
Talbot Street East	3,936	4,686	10.8	12.8	-15.6
Dingle Street	77,639	60,093	212.7	164.6	29.2
Talbot Street West	10,305	11,499	28.2	31.5	-10.5
PB01 (Rush Creek)	3,333	3,561	9.1	9.8	-7.1
PB02 (Port Bruce)	13,851	15,672	37.9	42.9	-11.7
Port Burwell Line	28,593	25,381	78.3	69.5	12.7
Waneeta Beach	1,104	n/a	3.0	n/a	n/a
<b>Total Flow</b>	138,761	120,892	380.2		