



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

March 26, 2018

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 2017 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 31st, 2018.

We recently forwarded a copy of the 2017 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. Terry Bender, OCWA's Acting Regional Hub Manager
Mike Taylor, OCWA's Senior Operations Manager
Sam Gustavson, Malahide's Water/Wastewater Operations Manager
Umashree Pancholy, OCWA's Process and Compliance Technician



**Ontario Clean Water Agency
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Annual Summary Report

For the

Malahide Distribution System

2017

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

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2	Compliance with Regulations Schedule 22-2 (2)(a) List the requirements of the Act, the regulations, the system’s approval, drinking water works permit, municipal drinking water licence, and any orders applicable to the system that were not met at any time during the period covered by the report.	1
3	Corrective Actions 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	Flow Summary Schedule 22-2 (3) <ol style="list-style-type: none"> 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. 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. 	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 1st, 2017 to December 31st, 2017. 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, 2018.

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 and Climate Change (MOECC) conducted the routine annual inspection on August 1st, 2017. The inspecting officer, Jim Miller, found no non-compliances with the regulatory requirements.

SECTION 3: Corrective Actions

The routine MOECC 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 175 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 51.2m³/day, which is a 10.3% decrease from 2016.

Attached as Appendix B are the remaining flow readings for the Malahide Distribution System. The total flow (including Copenhagen) supplied to the system was 161,530m³, which corresponds to a 4.3% increase from 2016.

APPENDIX A

The table below is a summary of quantities and flow rates from the Copenhagen Booster Station for 2017 compared to 2016 values.

Month	2017 Total Flow (m³)	2016 Total Flow (m³)	2017 Average Day Flow (m³/day)	2016 Average Day Flow (m³/day)	Difference between 2017 and 2016 (%)
January	1,292	1,889	43.1	60.9	-31.6
February	1,268	1,236	45.3	42.6	2.6
March	1,299	1,288	41.9	41.5	0.8
April	1,426	1,264	47.5	42.1	12.8
May	1,633	1,704	52.7	55	-4.2
June	1,916	1,775	63.9	59.2	7.9
July	2,107	1,946	68.0	62.8	8.3
August	1,855	2,207	59.8	71.2	-15.9
September	1,621	2,332	54.0	77.7	-30.5
October	1,392	2,234	44.9	72.1	-37.7
November	1,354	1,433	45.1	47.8	-5.5
December	1,488	1,481	48.0	47.8	0.5
Total Flow	18,651	20,789			-10.3
Average	1,554	1,732	51.2	56.8	
Maximum	2,107	2,332	68.0	77.7	

APPENDIX B

The table below is a summary of quantities of flow for water usage throughout Malahide (excluding Copenhagen) in 2017 compared to 2016.

Month	2017 Total Flow (m³)	2016 Total Flow (m³)	2017 Average Day Flow (m³/d)	2016 Average Day Flow (m³/d)	Difference between 2017 and 2016 Flows (%)
Talbot Street East	11,100	4,840	30.4	13.2	129.3
Dingle Street	77,084	68,515	211.2	187.2	12.5
Talbot Street West	6,774	10,735	18.6	29.3	-36.9
PB01 (Rush Creek)	3,187	3,323	8.7	9.1	-4.1
PB02 (Port Bruce)	13,297	8,903	36.4	24.3	49.4
Dexter and Imperial	6,496	5,831	17.8	15.9	11.4
Port Burwell Line	23,930	24,692	65.6	67.5	-3.1
Waneeta Beach	1,011	932	2.8	2.5	8.5