



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 Port Burwell Area Secondary Water Supply 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 Port Burwell Area Secondary Water Supply System Joint Board of Management by March 31, 2019.

We recently forwarded a copy of the 2018 Annual Report for the Port Burwell Area Secondary Water Supply System required under Section 11 of O. Reg. 170/03. Section 12 of O. Reg. 170/03, requires both the Summary Report and the 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 municipality, 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



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Annual Summary Report

For the

**Port Burwell Area Secondary
Water Supply System**

2018

**Prepared for the Township of Malahide,
Administering Municipality for the Port Burwell
Area Secondary Water Supply System
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, average daily and maximum 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 for the Port Burwell Area Secondary Water Supply System was published in accordance with Schedule 22 of Ontario's Drinking Water Systems Regulation for the reporting period of January 1, 2018 to December 31, 2018. The Port Burwell Area Secondary Water Supply System (waterworks number 260004735) 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 Port Burwell Area Secondary Water Supply System Joint Board of Management by March 31, 2019.

SECTION 2: Compliance

The Port Burwell Area Secondary Water Supply System was operated and maintained in such a manner that water supplied to the consumers and serviced by the system satisfied the requirements in the Safe Drinking Water Act, the regulations, the Municipal Drinking Water Licence (303-101) and Drinking Water Works Permit (303-201).

The annual routine inspection of the Port Burwell Area Secondary Water Supply System was conducted by the Ministry of the Environment, Conservation and Parks (MECP), Jim Miller, on June 21st, 2018. There were no non-compliances identified for the inspection period.

SECTION 3: Corrective Action

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 Port Burwell Area Secondary Water Supply 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 259 non-compliance ratings and as such received 100% for the Final Inspection Rating.

SECTION 4: Summary and Discussion of Quantity of Water Supplied

The current Municipal Drinking Water Licence does not specify a rated capacity for this system. There are several metering sites throughout the system to capture flows.

The flow entering the Port Burwell Area Secondary Water Supply System is monitored at the Port Burwell Valve House (MV1). Refer to Appendix A for the flows during the reporting period. The average daily flow for 2018 was 693m³/day which is an increase of 7.6% from 2017 average day flows. The maximum daily flow for 2018 was 2,157m³/day, which is an increase of 78.6% from the previous year. This large increase was due to refilling the tower after an inspection.

There are various flow meters within to the PBASWSS, these assist with providing flow data for billing purposes, chlorine dosing and line loss studies. Appendix B provides the monthly meter flows for each of these meters.

APPENDIX A

The table below is a summary of quantities and flow rates supplying the PBASWSS from the Port Burwell Valve House meter (MV1 Meter) for 2018 compared to 2017 values.

Month	2018 Total Flow (m ³)	2017 Total Flow (m ³)	2018 Average Day Flow (m ³ /day)	2017 Average Day Flow (m ³ /day)	% Difference between 2018 and 2017	2018 Max Day Flow (m ³ /day)	2017 Max Day Flow (m ³ /day)	% Difference Between 2018 and 2017
January	17,178	13,943	594	482	23.2	790	699	13.0
February	15,959	13,297	564	476	18.5	927	647	43.3
March	20,823	14,557	620	486	27.4	2,017	698	189.0
April	15,684	18,899	564	611	-7.7	846	863	-2.0
May	21,827	21,073	699	677	3.2	977	1,004	-2.7
June	26,404	25,463	806	760	6.0	1,104	947	16.6
July	24,809	23,632	817	849	-3.8	1,170	1,050	11.4
August	30,749	25,825	900	856	5.1	1,469	1,002	46.6
September	20,168	23,127	765	724	5.7	1,003	964	4.0
October	22,750	19,841	743	664	11.9	2,157	1,208	78.6
November	18,619	17,094	583	579	0.7	740	763	-3.0
December	17,983	17,876	592	549	7.9	761	700	8.7
Total Flow	252,953	234,627						
Average			693	644	7.6			
Max						2,157	1,208	78.6

APPENDIX B

The table below is a summary of flow volumes from the various flow meters in the PBASWSS.

Month	EO14 (m³)	VC02 (m³)	VC03 (m³)	Lakeview (m³)	EO38 (m³)	VO01 (m³)
January	3,688	10,366	3,640	12,120	6,219	4,147
February	3,642	10,906	3,075	9,881	5,926	4,980
March	3,611	11,384	3,685	12,461	6,154	5,230
April	3,082	8,987	3,233	n/a	5,073	3,914
May	3,826	8,408	4,499	14,577	4,156	4,252
June	6,632	18,770	4,098	12,672	12,003	6,767
July	4,810	13,678	5,121	16,194	9,164	4,514
August	5,358	15,324	4,965	16,972	10,688	4,636
September	3,589	10,128	4,207	13,364	6,274	3,854
October	5,224	12,871	4,550	12,490	8,102	4,769
November	2,614	7,401	3,452	11,591	4,124	3,277
December	3,530	10,764	3,212	10,662	6,540	4,224
Total Flow	49,606	191,943	47,737	142,984	84,423	54,564