



**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 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, 2015. I have provided a copy to the members of the board via email.

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

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



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

**Annual Summary Report**

**For the**

**Port Burwell Area Secondary  
Water Supply System**

**For the Year**

**2014**

**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	<p><b>Compliance with Regulations</b></p> <p>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.</p>	1
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3	<p><b>Corrective Actions</b></p> <p>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.</p>	1
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4	<p><b>Flow Summary</b></p> <p>Schedule 22-2 (3)</p> <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, average daily and maximum 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 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, 2014 to December 31, 2014. 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, 2015.

## **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 inspection of the Port Burwell Area Secondary Water Supply System was conducted by the Ministry of the Environment, Roland Plante, on April 10<sup>th</sup>, 2014. There were no non-compliances identified for the inspection period.

## **SECTION 3: Corrective Action**

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 Port Burwell Area Secondary Water Supply System were: Capacity Assessment, 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 289 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. Refer to Appendix A for the flows during the reporting period. The average daily flow for 2014 was 723m<sup>3</sup>/day which is an increase of 3.6% from 2013 average day flows. The maximum daily flow for 2014 was 1,820m<sup>3</sup>/day, which is an increase of 25% from the previous year. This maximum flow corresponds with a major watermain break that occurred on Nova Scotia Line.

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 2014 compared to 2013 values.

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	2014 Max Day Flow (m <sup>3</sup> )	2013 Max Day Flow (m <sup>3</sup> )	% Difference Between 2014 and 2013
January	22,553	15,867	728	512	42	965	744	30
February	17,312	17,292	618	618	0	778	753	3
March	19,751	16,458	637	531	20	732	699	5
April	19,490	16,994	650	566	15	884	769	15
May	21,025	23,227	678	749	-9	988	1,330	-26
June	24,656	22,937	822	765	7	1,129	1,033	9
July	30,899	27,068	997	873	14	1,203	1,473	-18
August	30,464	27,906	983	900	9	1,399	1,121	25
September	21,653	23,647	722	788	-8	1,820	985	85
October	20,784	23,248	670	750	-11	823	1,004	-18
November	17,240	20,216	575	674	-15	725	768	-6
December	18,162	19,815	586	639	-8	900	750	20
<b>Total Flow</b>	263,989	254,676						
<b>Average</b>			723	698	4			
<b>Max</b>						1,820	1,473	24

**APPENDIX B**

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

<b>Month</b>	<b>EO14 (m<sup>3</sup>)</b>	<b>PB01 (m<sup>3</sup>)</b>	<b>PB02 (m<sup>3</sup>)</b>	<b>Tower Inlet (m<sup>3</sup>)</b>	<b>Tower Outlet (m<sup>3</sup>)</b>	<b>Lakeview (m<sup>3</sup>)</b>	<b>EO38 (m<sup>3</sup>)</b>	<b>VO01 (m<sup>3</sup>)</b>
January	22,050	207	735	16,049	16,401	12,924	8,649	3,577
February	16,590	141	776	12,774	13,142	9,003	4,914	3,511
March	18,854	161	719	14,256	14,587	10,234	5,462	3,909
April	17,565	176	783	13,253	13,673	10,872	6,345	6,771
May	20,469	347	1,504	10,960	11,637	11,770	6,944	3,702
June	23,844	393	1,725	9,721	10,866	14,554	7,917	5,136
July	30,668	406	1,770	14,646	15,594	21,278	9,508	9,300
August	29,038	406	1,358	14,892	16,880	23,581	9,573	6,721
September	20,745	243	1,179	13,318	14,484	35,033	6,456	3,783
October	21,322	273	1,314	12,555	13,412	10,173	6,715	3,726
November	16,509	175	1,059	12,158	12,752	10,280	5,412	4,707
December	17,992	185	189	12,666	13,766	10,545	5,183	4,700
<b>Total Flow</b>	<b>255,647</b>	<b>3,113</b>	<b>13,110</b>	<b>157,248</b>	<b>167,194</b>	<b>180,247</b>	<b>83,078</b>	<b>59,544</b>