



ANNUAL REPORT

Drinking-Water System Number:	260004735
Drinking-Water System Name:	Port Burwell Area Secondary Water Supply System
Drinking-Water System Owner:	Port Burwell Area Secondary Water Supply System Joint Board of Management
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1 st to December 31 st , 2014

<p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [] No [X]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No []</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> <p>Township of Malahide Office 87 John Street Aylmer, ON N5H 2C3</p> </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input type="text"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [] No []</p> <p>Number of Interested Authorities you report to: <input type="text"/></p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []</p>
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List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
Malahide Distribution System	260004774
Bayham Distribution System	260004748

Did you provide a copy of your annual report to all Drinking-Water System owners that are connected to you and to whom you provide all of its drinking water? Yes [X] No []



Indicate how you notified system users that your annual report is available, and is free of charge.

Public access/notice via the web

Public access/notice via Government Office

Public access/notice via a newspaper

Public access/notice via Public Request

Public access/notice via a Public Library

Public access/notice via other method _____

Describe your Drinking-Water System

The Port Burwell Area Secondary Water Supply System transmission main extends from the Elgin Area Water Treatment Plant servicing Central Elgin, Malahide and Bayham. The watermain serves approximately 270 direct connections to the system. Tertiary lines are connected to the system through metering chambers. The entire system services approximately 3000 people.

The system has 40 sub-surface chambers for isolation, metering, air relief and draining. Along the main there are sample stations and hydrants for monitoring and flushing.

The Port Burwell Area Secondary Water System is controlled and monitored by the SCADA system. There is an elevated storage facility located on Nova Scotia Line, which is controlled by the valve house on Dexter Line. This Tower (Port Burwell Tower) has a capacity of 1518m³. The system is re-chlorinated at two locations: the Port Burwell Tower and Lakeview Re-Chlorination Facility. The re-chlorination facilities contain sodium hypochlorite dosing pumps connected to a Programmable Logic Controller (PLC), with a flow paced signal from the flow meter and chlorine analyzer for residual control by the PLC.

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite 12%



Were any significant expenses incurred to?

- Install required equipment
- Repair required equipment
- Replace required equipment

Please provide a brief description and a breakdown of monetary expenses incurred

-Lakeview Re-Chlorination chamber upgrades: watermain, flow meter, flanges, bulk water supply (\$18,250)
 -Fence repairs/replacement at Port Burwell Tower (\$2,000)
 -VO01 leak detection and flow study (\$2,500)
 -PB01 and PB02 meter repairs (\$400)
 -PB02 PRV leak repair (\$1,100)
 -Nova Scotia Line watermain repair (\$7,000)
 -Nova Scotia Line and Springfield Rd service saddle and service replacement (\$5,500)
 -Nova Scotia Line and Pede Rd. service saddle repair (\$5,000)
 -SCADA system maintenance and repairs (\$1,800)
 -Engineering services for Holy Cross chamber replacement (\$4,750)
 -OSWAP-3 Port Bruce project: engineering services, panel and chamber installation, flow meter installation, pressure gauge installation (\$126,500)
 -Personal gas detector (\$1,600)
 -Sump pump replacement (\$900)
 -Facility locks/security (\$500)
 -MV1 maintenance (\$400)
 -Flow meter repairs (\$1,000)

Provide details on the notices submitted in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 and reported to Spills Action Centre

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
n/a	n/a	n/a	n/a	n/a	n/a

Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

	Number of Samples	Range of E.Coli Or Fecal Results (min #)-(max #)	Range of Total Coliform Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
Distribution	166	0 – 0	0 – 0	62	<10 - 1970



Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

	Number of Grab Samples	Range of Results (min #)-(max #)	Unit of Measure
Free Chlorine	364	0.37 – 2.40	mg/L

NOTE: For continuous monitors use 8760 as the number of samples.

Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure
n/a	n/a	n/a	n/a	n/a

Summary of lead testing under Schedule 15.1 during this reporting period

(applicable to the following drinking water systems; large municipal residential systems, small municipal residential systems, and non-municipal year-round residential systems)

Location Type	Number of Samples	Range of Lead Results (min#) – (max #)	Unit of Measure	Number of Exceedances
Plumbing	n/a	n/a	n/a	n/a
Distribution	n/a	n/a	n/a	n/a

Summary of Organic parameters sampled during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (NOTE: show latest annual average)	2014-01-13	24	µg/L	No
	2014-04-07	27		
	2014-07-23	34		
	2014-10-06	53		
	Annual Avg. = 34.5			

List any Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards.

Parameter	Result Value	Unit of Measure	Date of Sample
n/a	n/a	n/a	n/a