



ANNUAL REPORT

<b>Drinking-Water System Number:</b>	220002967
<b>Drinking-Water System Name:</b>	Dutton/Dunwich Distribution System
<b>Drinking-Water System Owner:</b>	The Corporation of the Municipality of Dutton/Dunwich
<b>Drinking-Water System Category:</b>	Large Municipal Residential
<b>Period being reported:</b>	January 1, 2016 to December 31, 2016

<p><b><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></b></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>The Municipality of Dutton/Dunwich 199 Currie Rd., PO Box 329 Dutton, ON N0L 1J0</p> </div>	<p><b><u>Complete for all other Categories.</u></b></p> <p>Number of Designated Facilities served:  <div style="border: 1px solid black; display: inline-block; padding: 2px 10px;">8</div> </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: <div style="border: 1px solid black; display: inline-block; width: 80px; height: 20px; vertical-align: middle;"></div></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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**Note: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report**

List all Drinking-Water Systems (if any), which receive a portion of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
Not Applicable (N/A)	

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 or part of its drinking water?  
 Yes [ ] 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 – Notice sent out in Municipal Water Bills

**Describe your Drinking-Water System**

The Dutton/Dunwich Distribution System is classified as a large municipal system, with approximately 1518 customers, serving the former Village of Dutton, the former hamlets of Wallacetown, Iona and Iona Station and a large portion of the rural area of the former Township of Dunwich.

**List all water treatment chemicals used over this reporting period**

Sodium Hypochlorite

**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**

There were a few leaks that occurred at the property lines (curb stops).  
 There were six water main breaks in 2016.  
 Municipal backflow prevention program started in 2010 and is still ongoing.  
 Old lead service lines and curb stops were replaced on the following three streets in the Village of Dutton, Margaret St, Annie St, and Wesley St.  
 Replaced approximately 512 m of 8” A.C water main with PVC pipe on Miller road between Leitch St and Pioneer line. One hydrant, one sample station, valves, and services along this stretch were also replaced or added.  
 A new 6” water main was installed on Leitch street from Mary to Miller to service new Highland Estates subdivision. Three new fire hydrants, valves, services and one sample station were also installed in this section.  
 New ABB Flow meter was installed at Iona Interconnect to replace old flow meter which was no longer giving accurate readings.

**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 #)
Raw	N/A				
Treated	N/A				
Distribution	208	0 - 0	0 - 0	52	<10 - 30

**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
Turbidity		N/A		
Free Chlorine		1,863	.53-2.20	mg/L
Continuous Free Cl Monitoring	Dutton	8760	0.00-5.00	mg/L
	Iona In	8760	0.00-5.00	
	Iona Out	8760	0.00-5.00	

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

\*There were a few instances in 2016 when the water distribution free chlorine residual was recorded below 0.05mg/L by the continuous online analyzers. Each of these events coincided with operational alarm testing, loss of power or equipment failure ect. and did not reflect the actual free chlorine residual maintained in the distribution system.

*NOTE: Record the unit of measure if it is not milligrams per litre.*

**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				

**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	ug/L	N/A
Distribution	N/A	N/A	ug/L	N/A



<b>pH</b>	<b>6</b>	<b>7.37-8.17</b>		<b>0</b>
<b>Alkalinity</b>	<b>6</b>	<b>93-103</b>	<b>mg/L</b>	<b>0</b>

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

<b>Parameter</b>	<b>Sample Date</b>	<b>Result Value</b>	<b>Unit of Measure</b>	<b>Exceedance</b>
<b>THM</b> (NOTE: show latest annual average)	<b>Feb 9</b>	<b>47</b>	<b>ug/l</b>	<b>0</b>
	<b>May 10</b>	<b>36</b>		
<b>annual average - 53.8ug/L</b>	<b>Aug 9</b>	<b>74</b>		
	<b>Nov 8</b>	<b>58</b>		