



OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	260022152
Drinking-Water System Name:	BRESLAU DISTRIBUTION SYSTEM
Drinking-Water System Owner:	TOWNSHIP OF WOOLWICH
Drinking-Water System Category:	DISTRIBUTION
Period being reported:	JANUARY 1, 2010 TO DECEMBER 31, 2010

<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 WOOLWICH ENGINEERING &amp; PLANNING SERVICES 24 CHURCH STREET WEST ELMIRA, ONTARIO N3B 2Z6</p> </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input style="width: 50px;" type="text" value="1"/></p> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [x] No [ ]</p> <p>Number of Interested Authorities you report to: <input style="width: 80px;" 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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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 all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number

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 [ ] 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 Township of Woolwich owns and operates the Breslau Distribution System, including pipes, valves and residential meters. The drinking water system services approximately 680 service connections in two different subdivisions. The total population served is approximately 2,040. There are approximately 105 hydrants on the system. The Breslau Distribution System receives water from the Kitchener Well Supply which is part of the Urban Integrated System. The Urban Integrated System is owned and operated by the Regional Municipality of Waterloo.

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

SEE REGION OF WATERLOO

**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**

**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
April 28, 2010	Chlorine	T 0.20 F 0.01	mg/l	Initiated flushing of mains Resample	April 28, 2010
June 22, 2010	Total Coliforms	P	ml	Initiated flushing of mains Resample	June 23, 2010
October 6, 2010	Chlorine	T 0.18 F 0.01	mg/l	Initiated flushing of mains Resample	October 6, 2010

**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		SEE REGION OF WATERLOO			
Treated		SEE REGION OF WATERLOO			
Distribution	214	A	A - P	74	0 - 276

**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 #)
Turbidity	See Region of Waterloo	
Region Chlorine Combined	418	0.17 - 1.45
Township Chlorine Combined	678	0.12 - 1.39
Fluoride (If the DWS provides fluoridation)	See Region of Waterloo	

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

*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
Hopewell Heights				
Certificate of Approval 0117-7GSRZE July 23, 2008	Chlorine	Location 1	T- 0.45 F- 0.05	mg/l
	Background		Background - 0	CFU/100 ml
	Coliforms		P/A - A	
	Chlorine	Location 2	T- 0.52 F- 0.05	mg/l
	Background		Background - 0	CFU/100 ml
	Coliforms		P/A - A	
	Chlorine	Location 3	T- 0.48 F- 0.05	mg/l
	Background		Background - 0	CFU/100 ml
	Coliforms		P/A - A	

	Chlorine	Location 4	T- 0.45 F- 0.05	mg/l
	Background		Background – 0	CFU/100 ml
	Coliforms		P/A - A	
	Chlorine	Location 5	T- 0.57 F- 0.05	mg/l
	Background		Background – 1	CFU/100 ml
	Coliforms		P/A - A	
Riverland				
Certificate of Approval 3469-829SY8 February 12, 2010	Chlorine	8 inch	T- 0.79 F- 0.10	mg/l
	Background		Background – 0	CFU/100 ml
	Coliforms		P/A - A	
	Chlorine	6 inch	T- 0.78 F- 0.10	mg/l
	Background		Background – 0	CFU/100 ml
	Coliforms		P/A - A	
	Chlorine	Sample 1	T- 0.76 F- 0.05	mg/l
	Background		Background – 0	CFU/100 ml
	Coliforms		P/A - A	
	Chlorine	Sample 2	T- 0.77 F- 0.05	mg/l
	Background		Background – 0	CFU/100 ml
	Coliforms		P/A - A	
	Chlorine	Sample 3	T- 0.69 F- 0.05	mg/l
	Background		Background – 0	CFU/100 ml
	Coliforms		P/A - A	
	Chlorine	Sample 4	T- 0.74 F- 0.05	mg/l
	Background		Background – 0	CFU/100 ml
	Coliforms		P/A - A	
	Chlorine	Sample 5	T- 0.75 F- 0.05	mg/l
	Background		Background – 0	CFU/100 ml
	Coliforms		P/A - A	

	Chlorine	Location 1	T- 1.15 F- 0.42	mg/l
	Background		Background – 0	CFU/100 ml
	Coliforms		P/A - A	
	Chlorine	Location 2	T- 1.15 F- 0.58	mg/l
	Background		Background – 0	CFU/100 ml
	Coliforms		P/A - A	
	Chlorine	Location 3	T- 1.13 F- 0.49	mg/l
	Background		Background – 0	CFU/100 ml
	Coliforms		P/A - A	

**Summary of Inorganic parameters tested during this reporting period or the most recent sample results**

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony		Source Water Tests		
Arsenic		See Region of Waterloo		
Barium				
Boron				
Cadmium				
Chromium				
*Lead				
Mercury				
Selenium				
Sodium				
Uranium				
Fluoride				
Nitrite				
Nitrate				

\*only for drinking water systems testing under Schedule 15.2; this includes large municipal non-residential systems, small municipal non-residential systems, non-municipal seasonal residential systems, large non-municipal non-residential systems, and small non-municipal non-residential systems

**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 #)	Number of Exceedances
Plumbing	Qualified for Reduced Sampling		



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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor		Source Water Tests		
Aldicarb		See Region of Waterloo		
Aldrin + Dieldrin				
Atrazine + N-dealkylated metabolites				
Azinphos-methyl				
Bendiocarb				
Benzene				
Benzo(a)pyrene				
Bromoxynil				
Carbaryl		Source Water Tests		
Carbofuran		See Region of Waterloo		
Carbon Tetrachloride				
Chlordane (Total)				
Chlorpyrifos				
Cyanazine				
Diazinon				
Dicamba				
1,2-Dichlorobenzene				
1,4-Dichlorobenzene				
Dichlorodiphenyltrichloroethane (DDT) + metabolites				
1,2-Dichloroethane				
1,1-Dichloroethylene (vinylidene chloride)				
Dichloromethane				
2-4 Dichlorophenol				
2,4-Dichlorophenoxy acetic acid (2,4-D)				
Diclofop-methyl				
Dimethoate				
Dinoseb				
Diquat				
Diuron				
Glyphosate				
Heptachlor + Heptachlor Epoxide				
Lindane (Total)				
Malathion				
Methoxychlor				
Metolachlor				



Metribuzin				
Monochlorobenzene				
Paraquat				
Parathion				
Pentachlorophenol				
Phorate				
Picloram				
Polychlorinated Biphenyls(PCB)				
Prometryne				
Simazine				
THM (NOTE: show latest annual average)	10/14	28.4	ug/L	None
Temephos		Source Water Tests		
Terbufos		See Region of Waterloo		
Tetrachloroethylene				
2,3,4,6-Tetrachlorophenol				
Triallate				
Trichloroethylene				
2,4,6-Trichlorophenol				
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)				
Trifluralin				
Vinyl Chloride				

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