

**Part III Form 2
Section 11. ANNUAL REPORT.**

Drinking-Water System Number:	260002551
Drinking-Water System Name:	Bothwell Distribution System
Drinking-Water System Owner:	Municipality of Chatham-Kent
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1– December 31, 2007

<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;"> Chatham-Kent P.U.C. Office 325 Grand Ave., East P.O. Box 1191 Chatham, Ontario N7M 5L8 </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <div style="border: 1px solid black; padding: 5px; width: 100px; text-align: center;">N/A</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; padding: 5px; width: 100px; text-align: center;">N/A</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 all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
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 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 Bothwell distribution system receives treated water via the West Lorne Water System. The source of the raw water for the West Lorne System is Lake Erie. This water supply system consists of the West Elgin Water Treatment Plant, which is located south of the settlement of Eagle along the Lake Erie shoreline in the Municipality of West Elgin. Water is transported from West Lorne to Newbury, Glencoe, Bothwell, Melbourne and rural areas by use of the Glencoe pipeline. A pumping station at the Glencoe reservoir pumps directly to Mosa Township, Newbury and the Bothwell elevated tower. Water is stored in the Bothwell elevated tower to supply the needs of Bothwell's distribution system.

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

Purchase spare Chlorine Analyzer \$5,000.
 SCADA programming modifications \$3,000.
 Purchase spare Pressure Transmitter \$3,000.

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
Aug. 8/07	Total Coliforms present during weekly sampling	14 CFU/100ml		Resampled 2 sets of Bacteriological tests with no Bacteria present	Aug. 10/07

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 or Background Colony Counts	Range of HPC Results or Background Colony Counts (min #)-(max #)
Tower Inlet	52	0 – 0	0 – 0	52	9 - 20
Distribution	260	0 – 0	0 – 14	260	9 - 380

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	8760	0.045 – 0.122 NTU
Chlorine	8760	1.01 – 1.53
Fluoride (If the DWS provides fluoridation)	N/A	

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
N/A				
N/A				

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

Parameter	Sample Date Jan. 18/07	Sample Date April 12/07	Sample Date July 10/07	Sample Date Oct. 11/07
Antimony	N/A	N/A	N/A	N/A
Arsenic	N/A	N/A	N/A	N/A
Barium	N/A	N/A	N/A	N/A
Boron	N/A	N/A	N/A	N/A
Cadmium	N/A	N/A	N/A	N/A
Chromium	N/A	N/A	N/A	N/A
Lead – ug/L	0.5	N/A	N/A	N/A
Selenium – ug/L	<2.0	N/A	N/A	N/A
Sodium – ug/L	10000	N/A	N/A	N/A
Total Ammonia-N mg/L	<0.05	<0.05	0.07	<0.05
Dissolved Organic Carbon – mg/L	1.4	1.5	1.5	1.7
Fluoride – mg/L	<0.1	N/A	N/A	N/A
Turbidity - NTU	0.3	0.2	0.1	0.4
Nitrite – mg/L	<0.01	<0.01	<0.01	<0.01
Nitrate – mg/L	0.2	0.3	0.1	0.1

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

Parameter	Sample Date Jan. 18/07	Sample Date April 12/07	Sample Date July 10/07	Sample Date Oct. 11/07
Alachlor	N/A	N/A	N/A	N/A
Aldicarb	N/A	N/A	N/A	N/A
Aldrin + Dieldrin	N/A	N/A	N/A	N/A
Atrazine + N-dealkylated metabolites	N/A	N/A	N/A	N/A
Azinphos-methyl	N/A	N/A	N/A	N/A
Bendiocarb	N/A	N/A	N/A	N/A
Benzene	N/A	N/A	N/A	N/A
Benzo(a)pyrene	N/A	N/A	N/A	N/A
Bromoxynil	N/A	N/A	N/A	N/A
Carbaryl	N/A	N/A	N/A	N/A
Carbofuran	N/A	N/A	N/A	N/A
Carbon Tetrachloride	N/A	N/A	N/A	N/A
Chlordane (Total)	N/A	N/A	N/A	N/A
Chlorpyrifos	N/A	N/A	N/A	N/A
Cyanazine	N/A	N/A	N/A	N/A
Diazinon	N/A	N/A	N/A	N/A
Dicamba	N/A	N/A	N/A	N/A
1,2-Dichlorobenzene	N/A	N/A	N/A	N/A

1,4-Dichlorobenzene	N/A	N/A	N/A	N/A
Dichlorodiphenyltrichloroethane (DDT) + metabolites	N/A	N/A	N/A	N/A
1,2-Dichloroethane	N/A	N/A	N/A	N/A
1,1-Dichloroethylene (vinylidene chloride)	N/A	N/A	N/A	N/A
Dichloromethane	N/A	N/A	N/A	N/A
2,4 Dichlorophenol	N/A	N/A	N/A	N/A
2,4-Dichlorophenoxy acetic acid (2,4-D)	N/A	N/A	N/A	N/A
Diclofop-methyl	N/A	N/A	N/A	N/A
Dimethoate	N/A	N/A	N/A	N/A
Dinoseb	N/A	N/A	N/A	N/A
Diquat	N/A	N/A	N/A	N/A
Diuron	N/A	N/A	N/A	N/A
Glyphosate	N/A	N/A	N/A	N/A
Heptachlor + Heptachlor Epoxide	N/A	N/A	N/A	N/A
Lindane (Total)	N/A	N/A	N/A	N/A
Malathion	N/A	N/A	N/A	N/A
Methoxychlor	N/A	N/A	N/A	N/A
Metolachlor	N/A	N/A	N/A	N/A
Metribuzin	N/A	N/A	N/A	N/A
Monochlorobenzene	N/A	N/A	N/A	N/A
Paraquat	N/A	N/A	N/A	N/A
Parathion	N/A	N/A	N/A	N/A
Pentachlorophenol	N/A	N/A	N/A	N/A
Phorate	N/A	N/A	N/A	N/A
Picloram	N/A	N/A	N/A	N/A
Polychlorinated Biphenyls(PCB)	N/A	N/A	N/A	N/A
Prometryne	N/A	N/A	N/A	N/A
Simazine	N/A	N/A	N/A	N/A
THM Results – Jan., April, July, Oct.	45.7	51.6	48.6	66.3
THM Annual Average				53.05
Temephos	N/A	N/A	N/A	N/A
Terbufos	N/A	N/A	N/A	N/A
Tetrachloroethylene	N/A	N/A	N/A	N/A
2,3,4,6-Tetrachlorophenol	N/A	N/A	N/A	N/A
Triallate	N/A	N/A	N/A	N/A
Trichloroethylene	N/A	N/A	N/A	N/A
2,4,6-Trichlorophenol	N/A	N/A	N/A	N/A
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	N/A	N/A	N/A	N/A
Trifluralin	N/A	N/A	N/A	N/A
Vinyl Chloride	N/A	N/A	N/A	N/A

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
THM 100 ug/L	51.6	ug/L	April 12/07
THM 100 ug/L	66.3	ug/L	Oct. 11/07

(Only if DWS category is large municipal residential, small municipal residential, large municipal non residential, non municipal year round residential, large non municipal non residential)