



OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	220003332
Drinking-Water System Name:	Wheatley Water System
Drinking-Water System Owner:	Municipality of Chatham-Kent
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1- December 31, 2008

<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 [X] No []</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>Chatham-Kent P.U.C. 325 Grand Ave.East P.O. Box 1191 Chatham, ON N7M 5L8</p> </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served:</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">N/A</div> <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:</p> <div style="border: 1px solid black; padding: 2px; width: fit-content;">N/A</div> <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
A portion of Mersea Township	220004992
A portion of Lakeshore Township	260004995
3 rd &4 th Concession Waterline Assoc.	260086203
Richardson Sideroad Waterline Assoc.	260086190
Cedar Inn Waterline Assoc.	260086177
Tecumseh Road Waterline Assoc.	260086151
Tilbury Townline Waterline Assoc.	260086164



3 rd Concession Waterline Assoc.	260086125
KOA Waterline Assoc.	260086138
Tilbury Golf & Curling Waterline Assoc	260086333
Leamington (Wheatley) Distribution System	260087048

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 Wheatley Water Treatment Plant draws its water from Lake Erie, which is a surface water source. Large debris is screened out of the raw water as it is drawn into the treatment plant from the lake. Chlorine is added to the raw intake to control the growth of zebra mussels within the intake pipe. The raw water then passes through a 35-micron micro-strainer to remove algae and other fine particles. Aluminum sulphate and Polymer are added to achieve more effective settling in the clarifier. Activated carbon is added in the clarifier and is primarily used to remove dissolved organic matter that causes taste, odor and color in drinking water. The water then passes through the gravity filters into the clearwell, where it is disinfected with chlorine before being pumped into the distribution system. The distribution system pressure is regulated by an elevated storage tower in Wheatley, with a capacity of 1525 m3. A new elevated storage tower in the community of Tilbury, with a capacity of 5909 m3 has been constructed.

List all water treatment chemicals used over this reporting period

Gas Chlorine, Aluminum Sulphate (liquid), Activated Carbon, and Betz Dearborn Klar-Aid IC1179 (Polymer).

Were any significant expenses incurred to?

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



Ontario Drinking-Water Systems Regulation O. Reg. 170/03

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

VFD Installation – Low Lift Pumps - \$16,000

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
October 7	Lead Distribution Adverse	18.00	ug/L	Resample	October 15
October 14	CT CL2 Analyzer failure at the clearwell effluent	Zero reading	mg/L	Replaced the CL2 Analyzer	October 15
October 16	Distribution System Main Break	Boil Water Advisory		2 consecutive samples, clear results	October 20
October 30	Repairs to the CL2 sample line	Grab samples taken during the repair		Replaced the CL2 sample line	October 30

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	52	0-3000	0-3000	0	0
Treated	52	0	0	52	0-40
Distribution	559	0	0	278	0-250

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	0.02-0.09
Chlorine	8760	0.99-1.65
Fluoride (If the DWS provides fluoridation)	0	

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
C of A 4153-6QDJ2A 07 Jul 2006	Suspended Solids	January	13.6	mg/L
		February	15.3	mg/L
		March	11.0	mg/L
		April	10.6	mg/L
		May	6.0	mg/L
		June	5.6	mg/L
		July	6.6	mg/L
		August	11.6	mg/L
		September	3.6	mg/L
		October	3.3	mg/L
		November	16.6	mg/L
		December	9.0	mg/L

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	November 11/08	<0.5	ug/L	No
Arsenic	November 11/08	<1	ug/L	No
Barium	November 11/08	17	ug/L	No
Boron	November 11/08	16	ug/L	No
Cadmium	November 11/08	<0.1	ug/L	No
Chromium	November 11/08	<5	ug/L	No
*Lead				
Mercury	November 11/08	<0.0001	ug/L	No
Selenium	November 11/08	<2	ug/L	No
Sodium	November 11/08	8400	ug/L	No
Uranium	November 11/08	<0.1	ug/L	No
Fluoride	August 18/08	<0.1	mg/L	No
Nitrite	November 11/08	<0.01	mg/L	No
Nitrate	November 11/08	0.1	mg/L	No

*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	242	0.50-19.0	1
Distribution	40	0.50-18.0	1



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	August 18/08	<0.5	ug/L	No
Aldicarb	August 18/08	<5	ug/L	No
Aldrin + Dieldrin	August 18/08	<0.01	ug/L	No
Atrazine + N-dealkylated metabolites	August 18/08	<0.1	ug/L	No
Azinphos-methyl	August 18/08	<2	ug/L	No
Bendiocarb	August 18/08	<2	ug/L	No
Benzene	August 18/08	<0.1	ug/L	No
Benzo(a)pyrene	August 18/08	<0.009	ug/L	No
Bromoxynil	August 18/08	<0.5	ug/L	No
Carbaryl	August 18/08	<5	ug/L	No
Carbofuran	August 18/08	<5	ug/L	No
Carbon Tetrachloride	August 18/08	<0.1	ug/L	No
Chlordane (Total)	August 18/08	<0.01	ug/L	No
Chlorpyrifos	August 18/08	<1	ug/L	No
Cyanazine	August 18/08	<1	ug/L	No
Diazinon	August 18/08	<1	ug/L	No
Dicamba	August 18/08	<1	ug/L	No
1,2-Dichlorobenzene	August 18/08	<0.2	ug/L	No
1,4-Dichlorobenzene	August 18/08	<0.2	ug/L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	August 18/08	<0.02	ug/L	No
1,2-Dichloroethane	August 18/08	<0.2	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	August 18/08	<0.1	ug/L	No
Dichloromethane	August 18/08	<0.2	ug/L	No
2-4 Dichlorophenol	August 18/08	<0.5	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	August 18/08	<1	ug/L	No
Diclofop-methyl	August 18/08	<0.9	ug/L	No
Dimethoate	August 18/08	<3	ug/L	No
Dinoseb	August 18/08	<1	ug/L	No
Diquat	August 18/08	<7	ug/L	No
Diuron	August 18/08	<10	ug/L	No
Glyphosate	August 18/08	<10	ug/L	No
Heptachlor + Heptachlor Epoxide	August 18/08	<0.006	ug/L	No
Lindane (Total)	August 18/08	<0.006	ug/L	No
Malathion	August 18/08	<5	ug/L	No
Methoxychlor	August 18/08	<0.02	ug/L	No
Metolachlor	August 18/08	<0.5	ug/L	No
Metribuzin	August 18/08	<5	ug/L	No
Monochlorobenzene	August 18/08	<0.1	ug/L	No
Paraquat	August 18/08	<1	ug/L	No
Parathion	August 18/08	<1	ug/L	No
Pentachlorophenol	August 18/08	<0.5	ug/L	No
Phorate	August 18/08	<0.5	ug/L	No
Picloram	August 18/08	<5	ug/L	No
Polychlorinated Biphenyls(PCB)	August 18/08	<0.05	ug/L	No
Prometryne	August 18/08	<0.3	ug/L	No
Simazine	August 18/08	<1	ug/L	No



THM (NOTE: show latest annual average)	Yearly AVG.	35.2	ug/L	No
Temephos	August 18/08	<10	ug/L	No
Terbufos	August 18/08	<0.5	ug/L	No
Tetrachloroethylene	August 18/08	<0.1	ug/L	No
2,3,4,6-Tetrachlorophenol	August 18/08	<0.5	ug/L	No
Triallate	August 18/08	<1	ug/L	No
Trichloroethylene	August 18/08	<0.1	ug/L	No
2,4,6-Trichlorophenol	August 18/08	<0.5	ug/L	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	August 18/08	<1	ug/L	No
Trifluralin	August 18/08	<1	ug/L	No
Vinyl Chloride	August 18/08	<0.2	ug/L	No

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