

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

Section 11. ANNUAL REPORT.

Drinking-Water System Number:	260005502
Drinking-Water System Name:	Southwest Middlesex Distribution System
Drinking-Water System Owner:	Municipality of Southwest Middlesex
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1 2007 – 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;"> OCWA-West Lorne 25030 Thompson Line West Lorne, ON N0L 2P0 </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served:</p> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px 0;"></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; width: 100px; height: 20px; margin: 5px 0;"></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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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
Newbury Water Distribution Works	260005463
Bothwell Distribution System	260002551

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.

- [X] Public access/notice via the web
- [X] Public access/notice via Government Office
- [] Public access/notice via a newspaper
- [X] 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 Southwest Middlesex Distribution System services the communities of Melbourne, Appin, Glencoe and Wardsville.

Glencoe booster pumping station, reservoir and re-chlorination facility

Reservoir

-One two-celled reservoir located at Graham Road in the Village of West Lorne having an approximate volume of 1893m³ receives water from the West Elgin Water Supply System and controlled by one ultrasonic level sensor.

Highlift pumping station

-Four fixed speed horizontal split-case pumps: two pumps (one duty and one standby) rated at 2943m³/d and two emergency backup pumps rated at 1226m³/d, with firm pumping capacity of 5395m³/d.

-One flow meter installed on the common outlet pipe

Re-chlorination facilities

-One pre and one post sodium hypochlorite disinfection systems both equipped with two chemical metering pumps (one duty, one standby), rated at 3.3L/hr, with the pre feed line discharging to the reservoir inlet and the post feed line discharging to the outlet line from the pumping station.

-One 350L chemical storage tank with 400L secondary containment.

Melbourne Standpipe and Re-chlorination Facility (standby)

-Two chemical metering pumps (one duty, one standby), rated at 3.3L/hr, with feed line discharging sodium hypochlorite to the reservoir inlet.

-One 200L chemical solution storage tank with 200L secondary containment tank

List all water treatment chemicals used over this reporting period

12% 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

Glencoe Water Tower Repairs and Upgrades - \$180,000.00

Installation of Data Logger at Melbourne Tower - \$4608.20

Repairs to Distribution Pumps at Glencoe Reservoir - \$4797.33

Replacement of Flow Meter at Melbourne Tower - \$6,023.16

Hydrant Repairs/Replacement - \$2,744.77

Repairs to Heater for Glencoe Tower - \$305.72

Total Cost - \$198,479.18

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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
01/23/07	Low Pressure 16-4			-flushing -restore disinfection -repair watermain -bacti sampling	01/24/07
09/11/07	Low Pressure 16-4			-flushing -restore disinfection -repair watermain -bacti sampling	01/27/07

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	Range of HPC Results (min #)-(max #)
Distribution	205	0 -0	0 -0	81	<10 – 100

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 #)
Chlorine	5392	0.24 – 3.67

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

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				
Arsenic				
Barium				
Boron				
Cadmium				
Chromium				
Lead	2007/01/29	0.04	ug/L	No
Mercury				

Selenium				
Sodium				
Uranium				
Fluoride				
Nitrite				
Nitrate				

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				
Aldicarb				
Aldrin + Dieldrin				
Atrazine + N-dealkylated metabolites				
Azinphos-methyl				
Bendiocarb				
Benzene				
Benzo(a)pyrene				
Bromoxynil				
Carbaryl				
Carbofuran				
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	2007/01/29 2007/04/23 2007/07/23 2007/10/22	49 57 66 84 Avg: 64	ug/L	No
Temephos				
Terbufos				
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
Trihalomethane	AVG: 64	ug/L	Quarterly Average

(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) Small Municipal Non-Residential has been removed and Non Municipal Year Round Residential has been added.