



ANNUAL REPORT

Drinking-Water System Number:	260005502
Drinking-Water System Name:	Southwest Middlesex Distribution System
Drinking-Water System Owner:	Corporation of the Municipality of Southwest Middlesex
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2009 to December 31, 2009

<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 [] No [X]</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>West Elgin Water Treatment Plant 9210 Graham Road RR#2 West Lorne, ON N0L 2P0</p> </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input type="text"/></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: <input 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
Newbury Distribution System	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.

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 Southwest Middlesex Distribution System services the communities of Melbourne, Appin, Glencoe and Wardsville.

In addition to the watermains, valves, and fire hydrants, the Southwest Middlesex Distribution System consists of a reservoir, a high lift pumping station, re-chlorination facilities and two standpipes.

The distribution system receives water from the West Elgin Water Supply System.

The following are significant features on the system:

Glencoe Booster Pumping Station:

Reservoir

-One two-celled ground reservoir located on Graham Road in the Village of West Lorne which has an approximate volume of 1893 m³, controlled by an ultrasonic level sensor.

High Lift Pumping Station

-Four fixed speed horizontal split-case pumps: 2 pumps rated for 2943m³/d and 2 emergency backup pumps rated for 1226m³/d, with a firm pumping capacity of 5395m³/d.

-One flow meter installed on the common outlet pipe

Re-chlorination

-There is one pre and one post sodium hypochlorite system, both equipped with two chemical metering pumps to feed to the inlet reservoir and the other to the discharge outlet line from the pump station

Melbourne Standpipe:

-Two chemical metering pumps for sodium hypochlorite discharging to either the standpipe inlet or outlet

-One 200L chemical solution storage tank with secondary containment

-capacity 1589m³

Glencoe Standpipe:

-capacity of 2663m³



List all water treatment chemicals used over this reporting period

Sodium Hypochlorite 12%

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

Singer Valve Repairs \$1300
Data Logger Replacement at Melbourne Tower and Glencoe Reservoir \$4500

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					

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	255	0 – 0	0 – 0	105	0 - 2000

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 (Glencoe Reservoir)	8760	0.95 – 2.33
Chlorine (Melbourne Tower)	8760	0.37 – 2.87

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



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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (NOTE: show latest annual average)	26-Jan-09	64	µg/L	No
	14-Apr-09	57		
	13-Jul-09	78		
	13-Oct-09	110		
	10-Nov-09	83		
	25-Nov-09	44		
	25-Nov-09	74		

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
n/a			