



OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	260005307
Drinking-Water System Name:	Fanshawe Cottage Complex
Drinking-Water System Owner:	Upper Thames River Conservation Authority
Drinking-Water System Category:	Non-Municipal Year Round Residential
Period being reported:	January 1, 2025 – December 31, 2025

<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 []</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [] 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; height: 100px; width: 100%;"></div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <i>none</i></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: <i>none</i></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
none	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 [x]

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**
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Describe your Drinking-Water System

Water for the drinking water system is supplied by two drilled wells located west of the pump house. These wells are collectively referred to by staff as wells F5. Submersible well pumps draw water from the wells which enter the pump house via separate discharge pipes. Primary disinfection for each well source is achieved through the use of separate ultraviolet (UV) disinfection units, one on each discharge line. Each UV unit is located downstream of separate disinfection units (5 micron), which are used to provide necessary inactivation of viruses.

Downstream of the UV treatment, flow from each well enters a common header where the water is injected with sodium hypochlorite to provide necessary secondary disinfection. Water then enters an in-ground storage reservoir where it is subsequently drawn via two distribution pumps that supply water to the Fanshawe Cottage Complex.

All critical functions of the disinfection treatment system are monitored for faults. The pump house is equipped with an on-line chlorine analyzer to monitor the free chlorine residual leaving the pump house. In the event that the residual should drop below the low alarm level, a control relay will stop the distribution pumps to prevent the water from entering the distribution system. In addition, the UV disinfection systems include fail-safe solenoid valves mounted immediately upstream of each unit which are set to close in the event of a UV alarm or loss of power.

List all water treatment chemicals used over this reporting period

Sodium Hypochlorite and Ultraviolet Light

Were any significant expenses incurred to? No

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

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

Normal operation, maintenance and sampling requirement expenses.
 June 2025 – Chlorine pump replacement = \$3,500.00

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

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	Min 0. – Max 0	Min 0 – Max 0	0	0
Treated	26	Min 0. – Max 0	Min 0 – Max 0	0	0
Distribution	53	Min 0. – Max 0	Min 0 – Max 0	53	Min <10 – Max <10

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 #)	Unit of Measure
Turbidity	192	Min 0.07 – Max 0.94	ntu
Chlorine	330	Min 0.57 – Max 2.81	ppm
Fluoride (If the DWS provides fluoridation)	n/a	n/a	n/a

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

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	Alkalinity	March 11, 2025	290	mg/L
		Sept 16, 2025	290	
C of A	ph	March 11, 2025	8.29	pH
		Sept 16, 2025	7.90	pH

Haloacetic Acids in Water (HAA)

Parameter (Note: Show latest annual average)	Sample Date	Result Value	Unit of Measure	Exceedance
HAA	Mar 17, 2025 June 10, 2025 Sept 16, 2025 Dec 16, 2025	2.1	Ug/L	No

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	Feb 6 -25	ND	ug/L	No
Arsenic	Feb 6 -25	ND	ug/L	No
Barium	Feb 6 -25	69	ug/L	No
Boron	Feb 6 -25	15	ug/L	No
Bromate	Feb 6 -25	ND	ug/L	No
Cadmium	Feb 6 -25	ND	ug/L	No
Chloramines	Feb 6 -25	ND	ug/L	No
Chlorate	Feb 6 -25	ND	ug/L	No
Chlorite	Feb 6 -25	ND	ug/L	No
Chromium	Feb 6 -25	9400	ug/L	No
Cyanide	Feb 6 -25	0.78	ug/L	No
Fluoride	Sept 14-22	0.21	ug/L	No
Lead*	n/a	ND	ug/L	No
Mercury	Feb 6 -25	ND	ug/L	No
Nitrite	March 17, 2025	ND	mg/L	No
	June 10, 2025	ND	mg/L	No
	Sept 16, 2025	ND	mg/L	No
	Dec 16, 2025	ND	mg/L	No
Nitrate	March 17, 2025	1.03	mg/L	No
	June 10, 2025	1.18	mg/L	No
	Sept 16, 2025	1.33	mg/L	No
	Dec 16, 2025	1.09	mg/L	No
Selenium	Feb 6 -25	ND	ug/L	No
Sodium	Feb 6 -25	9400	ug/L	No
Uranium	Feb 6 -25	0.78	ug/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)

Not applicable during this reporting period.

Location Type	Number of Samples	Range of Lead Results (min#) – (max #)	Unit of Measure	Number of Exceedances
Plumbing	n/a	n/a	ug/L	n/a
Distribution	n/a	n/a	ug/L	n/a

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	Feb 6-25	ND	ug/L	No
Atrazine + N-dealkylated metabolites	Feb 6-25	ND	ug/L	No
Azinphos-methyl	Feb 6-25	ND	ug/L	No
Benzene	Feb 6-25	ND	ug/L	No
Benzo(a)pyrene	Feb 6-25	ND	ug/L	No
Bromoxynil	Feb 6-25	ND	ug/L	No
Carbaryl	Feb 6-25	ND	ug/L	No
Carbofuran	Feb 6-25	ND	ug/L	No
Carbon Tetrachloride	Feb 6-25	ND	ug/L	No
Chlorpyrifos	Feb 6-25	ND	ug/L	No
Diazinon	Feb 6-25	ND	ug/L	No
Dicamba	Feb 6-25	ND	ug/L	No
1,2-Dichlorobenzene	Feb 6-25	ND	ug/L	No
1,4-Dichlorobenzene	Feb 6-25	ND	ug/L	No
1,2-Dichloroethane	Feb 6-25	ND	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	Feb 6-25	ND	ug/L	No
Dichloromethane	Feb 6-25	ND	ug/L	No
2-4 Dichlorophenol	Feb 6-25	ND	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Feb 6-25	ND	ug/L	No
Diclofop-methyl	Feb 6-25	ND	ug/L	No
Dimethoate	Feb 6-25	ND	ug/L	No
Diquat	Feb 6-25	ND	ug/L	No
Diuron	Feb 6-25	ND	ug/L	No
Ethylbenzene	Feb 6 -25	ND	ug/L	No
Glyphosate	Feb 6-25	ND	ug/L	No
Haloacetic acids (HAAS)	March 17 -25 June 10 -25 Sept 16 -25 Dec 16 -25	2.1	ug/L	No
Malathion	Feb 6-25	ND	ug/L	No
2-Methyl-4-chlorophenoxyacetic acid	Feb 6 -25	ND	ug/L	No
Methoxychlor	Feb 6-25	ND	ug/L	No



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

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Metolachlor	Feb 6-25	ND	ug/L	No
Metribuzin	Feb 6-25	ND	ug/L	No
Microcystin-LR	Feb 6 -25	ND	ug/L	No
Monochlorobenzene	Feb 6-25	ND	ug/L	No
Paraquat	Feb 6-25	ND	ug/L	No
Pentachlorophenol	Feb 6-25	ND	ug/L	No
Phorate	Feb 6-25	ND	ug/L	No
Picloram	Feb 6-25	ND	ug/L	No
Polychlorinated Biphenyls(PCB)	Feb 6-25	ND	ug/L	No
Prometryne	Feb 6-25	ND	ug/L	No
Simazine	Feb 6-25	ND	ug/L	No
THM (NOTE: show latest annual average)	March 17, 2025 June 10, 2025 Sept 16, 2025 Dec 16, 2025	6.46	ug/L	No
Terbufos	Feb 6-25	ND	ug/L	No
Tetrachloroethylene	Feb 6-25	ND	ug/L	No
2,3,4,6-Tetrachlorophenol	Feb 6-25	ND	ug/L	No
Toluene	Feb 6 -25	ND	ug/L	No
Triallate	Feb 6-25	ND	ug/L	No
Trichloroethylene	Feb 6-25	ND	ug/L	No
2,4,6-Trichlorophenol	Feb 6-25	ND	ug/L	No
Trifluralin	Feb 6-25	ND	ug/L	No
Vinyl Chloride	Feb 6-25	ND	ug/L	No
Xylenes	Feb 6-25	ND	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
	n/a	n/a	n/a
	n/a	n/a	n/a