

**OPTIONAL ANNUAL REPORT TEMPLATE**

<b>Drinking-Water System Number:</b>	260005307
<b>Drinking-Water System Name:</b>	Fanshawe Cottage Complex
<b>Drinking-Water System Owner:</b>	Upper Thames River Conservation Authority
<b>Drinking-Water System Category:</b>	Non-Municipal Year Round Residential
<b>Period being reported:</b>	January 1, 2007 – December 31, 2007

<p><b><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></b></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><b><u>Complete for all other Categories.</u></b></p> <p>Number of Designated Facilities served:</p> <div style="border: 1px solid black; padding: 2px; width: 100px; display: inline-block;">none</div> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [ ] No [ ] <i>not applicable [x]</i></p> <p>Number of Interested Authorities you report to:</p> <div style="border: 1px solid black; padding: 2px; width: 100px; display: inline-block;">none</div> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [ ] No [ ] <i>not applicable [x]</i></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
<i>None</i>	<i>n/a</i>

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 [ ] *not applicable [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** \_\_\_\_\_

**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 required to provide the 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 the 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 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 a loss of power. Alarming is also present on each UV system, as is automatic shutoff of the submersible pumps in the event of primary disinfection failure.

**List all water treatment chemicals used over this reporting period**

Sodium hypochlorite, Ultraviolet Light

**Were any significant expenses incurred to?**

Install required equipment

Repair required equipment

Replace required equipment

None

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

Regular operating and maintenance costs.

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

**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
Not applicable					

**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 #)
<b>Raw</b>	54	0	0	Not required	Not applicable
<b>Treated</b>	27	0	0	Not required	Not applicable
<b>Distribution</b>	54	0	0	54	<10 - 50

**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 #)
<b>Turbidity</b>	226	0.12 – 0.97
<b>Chlorine</b>	258	0.36 – 3.10
<b>Fluoride</b> (If the DWS provides fluoridation)	not required	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. - None required**

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	May 27 -04	<0.002	mg/l	No
Arsenic	May 27 -04	<0.002	mg/l	No
Barium	May 27 -04	0.06	mg/l	No
Boron	May 27 -04	<0.02	mg/l	No
Cadmium	May 27 -04	<0.002	mg/l	No
Chromium	May 27 -04	<0.01	mg/l	No
Lead	Sept 07 -07	1.4	ug/l	No
Mercury	May 27 -04	0.0001	ug/l	No
Selenium	May 27 -04	<0.002	mg/l	No
Sodium	Aug 24 -05	7500	mg/l	No
Uranium	May 27 -04	0.0009	mg/l	No
Fluoride	Sept 07 -07	0.2	mg/l	No
Nitrite	Feb 26 -07 June 04 -07 Sept 7 -07 Dec 3 07	Not detected .01 Not detected Not detected	mg/l	No
Nitrate	Feb 26 -07 June 04 -07 Sept 7 -07 Dec 3 07	2.2 2.3 2.2 2.0	mg/l mg/l mg/l mg/l	No No No No

**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	May 27 -04	<0.0005	ug/l	No
Aldicarb	May 27 -04	<0.0005	ug/l	No
Aldrin + Dieldrin	May 27 -04	Not detected	ug/l	No
Atrazine + N-dealkylated metabolites	May 27 -04	Not detected	ug/l	No
Azinphos-methyl	May 27 -04	<0.0005	ug/l	No
Bendiocarb	May 27 -04	<0.001	ug/l	No
Benzene	May 27 -04	<0.0002	ug/l	No
Benzo(a)pyrene	May 27 -04	<0.00001	ug/l	No
Bromoxynil	May 27 -04	<0.0005	ug/l	No
Carbaryl	May 27 -04	<0.001	ug/l	No
Carbofuran	May 27 -04	<0.001	ug/l	No
Carbon Tetrachloride	May 27 -04	<0.0002	ug/l	No
Chlordane (Total)	May 27 -04	Not detected	ug/l	No
Chlorpyrifos	May 27 -04	<0.0005	ug/l	No
Cyanazine	May 27 -04	<0.0005	ug/l	No
Diazinon	May 27 -04	<0.0005	ug/l	No
Dicamba	May 27 -04	<0.0002	ug/l	No
1,2-Dichlorobenzene	May 27 -04	<0.0002	ug/l	No
1,4-Dichlorobenzene	May 27 -04	<0.0002	ug/l	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	May 27 -04	Not detected	ug/l	No
1,2-Dichloroethane	May 27 -04	<0.0002	ug/l	No

<b>1,1-Dichloroethylene (vinylidene chloride)</b>	May 27 -04	<0.0002	ug/l	No
<b>Dichloromethane</b>	May 27 -04	<0.001	ug/l	No
<b>2-4 Dichlorophenol</b>	May 27 -04	<0.0003	ug/l	No
<b>2,4-Dichlorophenoxy acetic acid (2,4-D)</b>	May 27 -04	<0.0002	ug/l	No
<b>Diclofop-methyl</b>	May 27 -04	<0.0002	ug/l	No
<b>Dimethoate</b>	May 27 -04	<0.0005	ug/l	No
<b>Dinoseb</b>	May 27 -04	<0.00005	ug/l	No
<b>Diquat</b>	May 27 -04	<0.005	ug/l	No
<b>Diuron</b>	May 27 -04	<0.005	ug/l	No
<b>Glyphosate</b>	May 27 -04	<0.01	ug/l	No
<b>Heptachlor + Heptachlor Epoxide</b>	May 27 -04	Not detected	ug/l	No
<b>Lindane (Total)</b>	May 27 -04	<0.000002	ug/l	No
<b>Malathion</b>	May 27 -04	<0.0005	ug/l	No
<b>Methoxychlor</b>	May 27 -04	<0.00001	ug/l	No
<b>Metolachlor</b>	May 27-04	<0.0005	ug/l	No
<b>Metribuzin</b>	May 27 -04	<0.0005	ug/l	No
<b>Monochlorobenzene</b>	May 27 -04	<0.0002	ug/l	No
<b>Paraquat</b>	May 27 -04	<0.005	ug/l	No
<b>Parathion</b>	May 27 -04	<0.0005	ug/l	No
<b>Pentachlorophenol</b>	May 27 -04	<0.002	ug/l	No
<b>Phorate</b>	May 27	<0.0005	ug/l	No
<b>Picloram</b>	May 27 -04	<0.00005	ug/l	No
<b>Polychlorinated Biphenyls(PCB)</b>	May 27 -04	<0.00005	ug/l	No
<b>Prometryne</b>	May 27 -04	<0.00025	ug/l	No
<b>Simazine</b>	May 27 -04	<0.0005	ug/l	No
<b>THM</b> (NOTE: show latest annual average)	Feb 26 -07 June 04 -07 Sept 7 -07 Dec 3 -07	2.875	ug/l	No
<b>Temephos</b>	May 27 -04	<0.0005	ug/l	No
<b>Terbufos</b>	May 27 -04	<0.0005	ug/l	No
<b>Tetrachloroethylene</b>	May 27 -04	<0.0002	ug/l	No
<b>2,3,4,6-Tetrachlorophenol</b>	May 27 -04	<0.0005	ug/l	No
<b>Triallate</b>	May 27 -04	<0.0005	ug/l	No
<b>Trichloroethylene</b>	May 27 -04	<0.0002	ug/l	No
<b>2,4,6-Trichlorophenol</b>	May 27 -04	<0.0005	ug/l	No
<b>2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)</b>	May 27 -04	<0.00005	ug/l	No
<b>Trifluralin</b>	May 27 -04	<0.0005	ug/l	No
<b>Vinyl Chloride</b>	May 27 -04	<0.0002	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. - *None*

Parameter	Result Value	Unit of Measure	Date of Sample