



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, 2010 – December 31, 2010

<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:  <div style="border: 1px solid black; padding: 2px; display: inline-block;">none</div></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:  <div style="border: 1px solid black; padding: 2px; display: inline-block;">none</div></p> <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
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 [ ] *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 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 enter 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 loss of power.

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

Sodium Hypochlorite and 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.

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 *Not applicable during this reporting period*

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	0	0	n/a	n/a
Treated	26	0	0	n/a	n/a
Distribution	52	0	0	50	<10 - 40

**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	224	0.08 – 0.93
Chlorine	254	0.58 – 3.94
Fluoride (If the DWS provides fluoridation)	n/a	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. *Not applicable***

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure
	n/a	n/a	n/a	n/a
	n/a	n/a	n/a	n/a

**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	June 2 -09	ND	ug/L	No
Arsenic	June 2 -09	ND	ug/L	No
Barium	June 2 -09	64	ug/L	No
Boron	June 2 -09	12	ug/L	No
Cadmium	June 2 -09	ND	ug/L	No
Chromium	June 2 -09	ND	ug/L	No
*Lead	Sept 7 -07	1.4	ug/L	No
Mercury	June 2 -09	ND	mg/L	No
Selenium	June 2 -09	ND	ug/L	No
Sodium	August 19 -10	6500	ug/L	No
Uranium	June 2 -09	0.9	ug/L	No
Fluoride	Sept 7 -07	0.2	mg/L	No
Nitrite	Mar 23 -10	ND	mg/L	No
	June 1 -10	ND	mg/L	No
	Sept 23 -10	ND	mg/L	No
	Dec 14 -10	ND	mg/L	No
Nitrate	Mar 23 -10	2.5	mg/L	No
	June 1 -10	2.1	mg/L	No

	Sept 23 -10 Dec 14 -10	2.4 2.3	mg/L mg/L	No No
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\*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	Reduced sampling regime as per MOE		
Distribution	Reduced sampling regime as per MOE		

### 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	June 2 -09	ND	ug/L	no
Aldicarb	June 2 -09	ND	ug/L	no
Aldrin + Dieldrin	June 2 -09	ND	ug/L	no
Atrazine + N-dealkylated metabolites	June 2 -09	ND	ug/L	no
Azinphos-methyl	June 2 -09	ND	ug/L	no
Bendiocarb	June 2 -09	ND	ug/L	no
Benzene	June 2 -09	ND	ug/L	no
Benzo(a)pyrene	June 2 -09	ND	ug/L	no
Bromoxynil	June 2 -09	ND	ug/L	no
Carbaryl	June 2 -09	ND	ug/L	no
Carbofuran	June 2 -09	ND	ug/L	no
Carbon Tetrachloride	June 2 -09	ND	ug/L	no
Chlordane (Total)	June 2 -09	ND	ug/L	no
Chlorpyrifos	June 2 -09	ND	ug/L	no
Cyanazine	June 2 -09	ND	ug/L	no
Diazinon	June 2 -09	ND	ug/L	no
Dicamba	June 2 -09	ND	ug/L	no
1,2-Dichlorobenzene	June 2 -09	ND	ug/L	no
1,4-Dichlorobenzene	June 2 -09	ND	ug/L	no
Dichlorodiphenyltrichloroethane (DDT) + metabolites	June 2 -09	ND	ug/L	no
1,2-Dichloroethane	June 2 -09	ND	ug/L	no
1,1-Dichloroethylene (vinylidene chloride)	June 2 -09	ND	ug/L	
Dichloromethane	June 2 -09	ND	ug/L	no
2-4 Dichlorophenol	June 2 -09	ND	ug/L	no
2,4-Dichlorophenoxy acetic acid (2,4-D)	June 2 -09	ND	ug/L	no
Diclofop-methyl	June 2 -09	ND	ug/L	no
Dimethoate	June 2 -09	ND	ug/L	no
Dinoseb	June 2 -09	ND	ug/L	no



<b>Diquat</b>	June 2 -09	ND	ug/L	no
<b>Diuron</b>	June 2 -09	ND	ug/L	no
<b>Glyphosate</b>	June 2 -09	ND	ug/L	no
<b>Heptachlor + Heptachlor Epoxide</b>	June 2 -09	ND	ug/L	no
<b>Lindane (Total)</b>	June 2 -09	ND	ug/L	no
<b>Malathion</b>	June 2 -09	ND	ug/L	no
<b>Methoxychlor</b>	June 2 -09	ND	ug/L	no
<b>Metolachlor</b>	June 2 -09	ND	ug/L	no
<b>Metribuzin</b>	June 2 -09	ND	ug/L	no
<b>Monochlorobenzene</b>	June 2 -09	ND	ug/L	no
<b>Paraquat</b>	June 2 -09	ND	ug/L	no
<b>Parathion</b>	June 2 -09	ND	ug/L	no
<b>Pentachlorophenol</b>	June 2 -09	ND	ug/L	no
<b>Phorate</b>	June 2 -09	ND	ug/L	no
<b>Picloram</b>	June 2 -09	ND	ug/L	no
<b>Polychlorinated Biphenyls(PCB)</b>	June 2 -09	ND	ug/L	no
<b>Prometryne</b>	June 2 -09	ND	ug/L	no
<b>Simazine</b>	June 2 -09	ND	ug/L	no
<b>THM</b> (NOTE: show latest annual average)	Mar 23 -10 June 1 -10 Sept 23 -10 Dec 14 -10	3.6	ug/L	no
<b>Temephos</b>	June 2 -09	ND	ug/L	no
<b>Terbufos</b>	June 2 -09	ND	ug/L	no
<b>Tetrachloroethylene</b>	June 2 -09	ND	ug/L	no
<b>2,3,4,6-Tetrachlorophenol</b>	June 2 -09	ND	ug/L	no
<b>Triallate</b>	June 2 -09	ND	ug/L	no
<b>Trichloroethylene</b>	June 2 -09	ND	ug/L	no
<b>2,4,6-Trichlorophenol</b>	June 2 -09	ND	ug/L	no
<b>2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)</b>	June 2 -09	ND	ug/L	no
<b>Trifluralin</b>	June 2 -09	ND	ug/L	no
<b>Vinyl Chloride</b>	June 2 -09	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.**

<b>Parameter</b>	<b>Result Value</b>	<b>Unit of Measure</b>	<b>Date of Sample</b>
	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>
	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>