

ANNUAL REPORT

Drinking-Water System Number:	220002832
Drinking-Water System Name:	Hawkesbury Water Treatment Plant
Drinking-Water System Owner:	Corporation of the Town of Hawkesbury
Drinking-Water System Category:	Large municipal residential system
Period being reported:	January 1, 2006 to December 31, 2006

<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 [<input checked="" type="checkbox"/>] No []</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [<input checked="" type="checkbox"/>] 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;"> <ul style="list-style-type: none"> - Technical Services Department - Hawkesbury Public Library - Web site www.hawkesbury.ca - Township of Champlain </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input style="width: 100px; height: 20px;" 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 style="width: 100px; height: 20px;" 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
Township of Champlain	

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 []

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

Our waterworks currently serves a population of 10,154 in Hawkesbury and a population of approximately 4,000 in the Township of Champlain. In accordance with its Official Plan, all development in the Town has been provided with municipal water and sewer services. Water is supplied by the Water Filtration Plant, which is owned and operated by the municipality, and sewage is treated at the Water Pollution Control Plant which is owned by the municipality and operated by the Ontario Clean Water Agency.

Our Water Filtration Plant is located at 670 Main Street West in Hawkesbury, Ontario. The plant was constructed in 1953 and upgraded and expanded in 1996. The system's upgrade and expansion consisted mainly of the following works:

- Construction and integration of a second clarifier unit in the treatment process complete with related piping, controls, etc...
- Construction and integration of a second 2,760 m³ potable water underground storage complete with related piping, controls, etc...
- Construction of new settling and decanting tanks for clarifier sludge and backwash wastewater.
- Supply and installation of new high lift pumping equipment.
- Supply and installation of a new SCADA control system.
- Replacement and/or relocation of yard piping.

We also have a 5,454 cubic metre elevated storage reservoir in our distribution system located on Spence Avenue.

List all water treatment chemicals used over this reporting period

- **Liquid chlorine (compressed gas)**
- **Hydrated lime**
- **Sodium aluminate**
- **Sodium silicate**
- **Liquid poly hydroxy aluminum sulphate**
- **Hydro fluosilicic acid (25%)**

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

No major breakdown of equipment.
Only routine and preventive maintenance of equipment.

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
03.02.06	Total Coliforms	1	cts/100mL	Re-sampling	03.02.06
24.08.06	Total Coliforms	Over-growth	cts/100mL	Re-sampling	24.08.06 25.08.06
26.08.06	Total Coliforms	Over-growth	cts/100mL	Flushing of hydrant Re-sampling	26.08.06 28.08.06

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	1 -146	10 – 20,000		
Treated	52	<1 - <1	<1 - <1		
Distribution	364	<1 - <1	<1 – Overgrowth		

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	8760	0.14 – 0.78 NTU
Chlorine	8760	0.41 – 1.13 mg/L
Fluoride (If the DWS provides fluoridation)	8760	0.18 – 0.82 mg/L

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.

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	08.12.06	<0.0004	mg/L	
Barium				
Boron				
Cadmium				
Chromium				
Lead	08.12.06	<0.0001	mg/L	
Mercury				
Selenium				
Sodium	08.12.06	6.6	mg/L	
Uranium				
Fluoride	08.12.06	0.6	mg/L	
Nitrite	08.12.06	<0.1	mg/L	
Nitrate	08.12.06	0.4	mg/L	

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	13.12.06	<0.3	µg/L	
Aldicarb	13.12.06	<3	µg/L	
Aldrin + Dieldrin	11.12.06	<0.02	µg/L	
Atrazine + N-dealkylated metabolites	13.12.06	<0.5	µg/L	
Azinphos-methyl	13.12.06	<1	µg/L	
Bendiocarb	13.12.06	<3	µg/L	
Benzene	08.12.06	<0.5	µg/L	
Benzo(a)pyrene	13.12.06	<0.005	µg/L	
Bromoxynil	13.12.06	<0.3	µg/L	
Carbaryl	13.12.06	<3	µg/L	
Carbofuran	13.12.06	<1	µg/L	
Carbon Tetrachloride	08.12.06	<0.2	µg/L	
Chlordane (Total)	11.12.06	<0.04	µg/L	
Chlorpyrifos	13.12.06	<0.5	µg/L	
Cyanazine	13.12.06	<0.5	µg/L	

Diazinon	13.12.06	<1	µg/L	
Dicamba	13.12.06	<5	µg/L	
1,2-Dichlorobenzene	08.12.06	<0.1	µg/L	
1,4-Dichlorobenzene	08.12.06	<0.2	µg/L	
Dichlorodiphenyltrichloroethane (DDT) + metabolites	11.12.06	<0.1	µg/L	
1,2-Dichloroethane	08.12.06	<0.1	µg/L	
1,1-Dichloroethylene (vinylidene chloride)				
Dichloromethane	08.12.06	<0.3	µg/L	
2-4 Dichlorophenol	13.12.06	<0.1	µg/L	
2,4-Dichlorophenoxy acetic acid (2,4-D)	13.12.06	<5	µg/L	
Diclofop-methyl	13.12.06	<0.4	µg/L	
Dimethoate	13.12.06	<1	µg/L	
Dinoseb	13.12.06	<0.5	µg/L	
Diquat	21.12.06	<5	µg/L	
Diuron	13.12.06	<5	µg/L	
Glyphosate	21.12.06	<25	µg/L	
Heptachlor + Heptachlor Epoxide	11.12.06	<0.1	µg/L	
Lindane (Total)	11.12.06	<0.1	µg/L	
Malathion	13.12.06	<5	µg/L	
Methoxychlor	11.12.06	<0.1	µg/L	
Metolachlor	13.12.06	<3	µg/L	
Metribuzin	13.12.06	<3	µg/L	
Monochlorobenzene	08.12.06	<0.2	µg/L	
Paraquat	21.12.06	<1	µg/L	
Parathion	13.12.06	<3	µg/L	
Pentachlorophenol	13.12.06	<0.1	µg/L	
Phorate	13.12.06	<0.3	µg/L	
Picloram	13.12.06	<5	µg/L	
Polychlorinated Biphenyls(PCB)	11.12.06	<0.05	µg/L	
Prometryne	13.12.06	<0.1	µg/L	
Simazine	13.12.06	<0.5	µg/L	
THM (NOTE: show latest annual average)	2006	66.33	µg/L	
Temephos	13.12.06	<10	µg/L	
Terbufos	13.12.06	<0.3	µg/L	
Tetrachloroethylene	08.12.06	<0.2	µg/L	
2,3,4,6-Tetrachlorophenol	08.12.06	<0.1	µg/L	
Triallate	13.12.06	<10	µg/L	
Trichloroethylene	08.12.06	<0.1	µg/L	
2,4,6-Trichlorophenol	13.12.06	<0.1	µg/L	
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	13.12.06	<10	µg/L	
Trifluralin	13.12.06	<0.5	µg/L	
Vinyl Chloride	08.12.06	<0.2	µg/L	

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

(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)