



2010 ANNUAL REPORT

Drinking-Water System Licence:	220002832
Drinking-Water System Name:	Hawkesbury Drinking Water System
Drinking-Water System Owner:	Corporation of the Town of Hawkesbury
Drinking-Water System Category:	Large Municipal Residential System
Period being reported:	January 1, 2010 to December 31, 2010

<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 [<input type="checkbox"/>]</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 [<input type="checkbox"/>]</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>-Technical Services Department -Hawkesbury Public Library -Web site: www.hawkesbury.ca -Township of Champlain</p> </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 [<input type="checkbox"/>] No [<input type="checkbox"/>]</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 [<input type="checkbox"/>] No [<input type="checkbox"/>]</p>
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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 (Orignal)	260037102
Township of Champlain (Vankleek Hill)	260002395
Township of Champlain (Park Laurentien)	260090012

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 10,854 in Hawkesbury and a population of approximately 4,000 in the town 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 also owned and operated by the municipality.

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 potable water underground storage tank (2760 m³) with related piping, controls, etc...
- Construction of a new settling and decanting tank for clarifier sludge and backwash wastewater.
- Supply and Installation of a 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 m³ elevated storage reservoir in our distribution system located on Spence Av. in Hawkesbury.

List all water treatment chemicals used over this reporting period

- Liquid Chlorine (Compressed gas)
- Hydrated Lime
- Sodium Aluminates
- Sodium Silicate
- Liquid Poly Hydroxy Aluminum Sulphate (PAS-8)
- 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

We replaced a high lift pump (\$25 000.00)
 We also bought a second pump for Coagulant aid (back up) (\$ 5000.00)

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
July 21, 2010	Total Coliforms	1	Count / 100mL	Resample & Disinfectant increased	July 21, 2010
October 12, 2010	Total Trihalomethanes	117	µg/L	Stop Pre-Chlorination	October 26, 2010

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	(2) - (12 000)	(16) – (550)		
Treated	52	0	0		
Distribution	364	0	(0) – (1)		

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	(0.17) - (0.35) NTU
Chlorine	8760	(0.58) - (1.20)
Fluoride	8760	(0.0)– (0.70)

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
April 25, 2005	Creek discharge (TSS)	1/ month	< 3 - 9	mg/L
April 25, 2005	Creek discharge (Al)	1/ month	0 - 0.3	mg/L

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 14, 2010	< 0.0001	mg/L	no
Arsenic	June 14, 2010	0.0003	mg/L	no
Barium	June 14, 2010	0.014	mg/L	no
Boron	June 14, 2010	< 0.0005	mg/L	no
Cadmium	June 14, 2010	< 0.00002	mg/L	no
Chromium	June 14, 2010	< 0.002	mg/L	no
*Lead	June 14, 2010	0.00023	mg/L	no
Mercury	June 14, 2010	< 0.00002	mg/L	no
Selenium	June 14, 2010	< 0.001	mg/L	no
Sodium	June 14, 2010	5.1	mg/L	no
Uranium	June 14, 2010	< 0.00005	mg/L	no
Fluoride	June 14, 2010	0.5	mg/L	no
Nitrite	June 14, 2010	< 0.1	mg/L	no
Nitrate	June 14, 2010	0.3	mg/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)

Location Type	Number of Samples	Range of Lead Results (min#) – (max #)	Number of Exceedances
Plumbing	2	0.00096-0.00273	0

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 14, 2010	< 0.3	µg /L	no
Aldicarb	June 14, 2010	< 3	µg /L	no
Aldrin + Dieldrin	June 14, 2010	< 0.02	µg /L	no
Atrazine + N-dealkylated metabolites	June 14, 2010	< 0.5	µg /L	no
Azinphos-methyl	June 14, 2010	< 1	µg /L	no
Bendiocarb	June 14, 2010	< 3	µg /L	no
Benzene	June 14, 2010	< 0.5	µg /L	no
Benzo(a)pyrene	June 14, 2010	< 0.005	µg /L	no
Bromoxynil	June 14, 2010	< 0.3	µg /L	no
Carbaryl	June 14, 2010	< 3	µg /L	no
Carbofuran	June 14, 2010	< 1	µg /L	no
Carbon Tetrachloride	June 14, 2010	< 0.2	µg /L	no
Chlordane (Total)	June 14, 2010	< 0.04	µg /L	no
Chlorpyrifos	June 14, 2010	< 0.5	µg /L	no
Cyanazine	June 14, 2010	< 0.5	µg /L	no
Diazinon	June 14, 2010	< 1	µg /L	no
Dicamba	June 14, 2010	< 5	µg /L	no
1,2-Dichlorobenzene	June 14, 2010	< 0.1	µg /L	no
1,4-Dichlorobenzene	June 14, 2010	< 0.2	µg /L	no
Dichlorodiphenyltrichloroethane (DDT) + metabolites	June 14, 2010	< 0.1	µg /L	no

1,2-Dichloroethane	June 14, 2010	< 0.1	µg /L	no
1,1-Dichloroethylene (vinylidene chloride)	June 14, 2010	< 0.1	µg /L	no
Dichloromethane	June 14, 2010	< 0.3	µg /L	no
2-4 Dichlorophenol	June 14, 2010	< 0.1	µg /L	no
2,4-Dichlorophenoxy acetic acid (2,4-D)	June 14, 2010	< 5	µg /L	no
Diclofop-methyl	June 14, 2010	< 0.5	µg /L	no
Dimethoate	June 14, 2010	< 1	µg /L	no
Dinoseb	June 14, 2010	< 0.5	µg /L	no
Diquat	June 14, 2010	< 5	µg /L	no
Diuron	June 14, 2010	< 5	µg /L	no
Glyphosate	June 14, 2010	< 25	µg /L	no
Heptachlor + Heptachlor Epoxide	June 14, 2010	< 0.1	µg /L	no
Lindane (Total)	June 14, 2010	< 0.1	µg /L	no
Malathion	June 14, 2010	< 5	µg /L	no
Methoxychlor	June 14, 2010	< 0.1	µg /L	no
Metolachlor	June 14, 2010	< 3	µg /L	no
Metribuzin	June 14, 2010	< 3	µg /L	no
Monochlorobenzene	June 14, 2010	< 0.2	µg /L	no
Paraquat	June 14, 2010	< 1	µg /L	no
Parathion	June 14, 2010	< 3	µg /L	no
Pentachlorophenol	June 14, 2010	< 0.1	µg /L	no
Phorate	June 14, 2010	< 0.3	µg /L	no



Picloram	June 14, 2010	< 5	µg /L	no
Polychlorinated Biphenyls(PCB)	June 14, 2010	< 0.05	µg /L	no
Prometryne	June 14, 2010	< 0.1	µg /L	no
Simazine	June 14, 2010	< 0.5	µg /L	no
THM (NOTE: show latest annual average)	June 14, 2010	102	µg /L	yes
Temephos	June 14, 2010	< 10	µg /L	no
Terbufos	June 14, 2010	< 0.3	µg /L	no
Tetrachloroethylene	June 14, 2010	< 0.2	µg /L	no
2,3,4,6-Tetrachlorophenol	June 14, 2010	< 0.1	µg /L	no
Triallate	June 14, 2010	< 10	µg /L	no
Trichloroethylene	June 14, 2010	< 0.1	µg /L	no
2,4,6-Trichlorophenol	June 14, 2010	< 0.1	µg /L	no
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	June 14, 2010	< 10	µg /L	no
Trifluralin	June 14, 2010	< 0.5	µg /L	no
Vinyl Chloride	June 14, 2010	< 0.2	µg /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			