



2011 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, 2011 to December 31, 2011

<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;"> <ul style="list-style-type: none"> -Waterworks 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:</p> <div style="border: 1px solid black; width: 100px; height: 20px; margin: 5px 0;"></div> <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: <div style="border: 1px solid black; width: 100px; height: 20px; display: inline-block; margin-left: 10px;"></div></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 (L'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 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 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 Avenue in Hawkesbury.



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 (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

- New Heating Boiler Unit \$ 13,000.00**
- New Prominent Pump for Activated Silica (coagulant aid) \$ 5,000.00**
- New Sludge Flight Pump \$ 3,000.00**
- New Trench Box for Distribution \$ 25,000.00**
- Rehabilitation of watermain on Dufferin Street \$200,000.00**
- Replacement of watermain on Cartier, Higginson, Hampden & Régent Sts \$800,000.00**

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
2011-06-27	Free Chlorine	0.02	mg/l	Flush Main Pipes	2011-06-27

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) – (280)	(0) – (1430)	n/a	n/a
Treated	52	(0) – (0)	(0) – (0)	16	(2) – (2)
Distribution	364	(0) – (0)	(0) – (0)	46	(2) - (16)



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) – (0.42) NTU
Chlorine	8760	(0.57) – (1.11)
Fluoride	8760	(0.07) – (0.73)

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) – (12)	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	September 15,2011	< 0.0001	mg/L	no
Arsenic	September 15,2011	0.0005	mg/L	no
Barium	September 15,2011	0.014	mg/L	no
Boron	September 15,2011	0.012	mg/L	no
Cadmium	September 15,2011	< 0.00002	mg/L	no
Chromium	September 15,2011	< 0.002	mg/L	no
Mercury	September 15,2011	< 0.00002	mg/L	no
Selenium	September 15,2011	< 0.001	mg/L	no
Sodium	September 15,2011	6.3	mg/L	no
Uranium	September 15,2011	< 0.00005	mg/L	no
Fluoride	September 15,2011	0.6	mg/L	no
Nitrite	September 15,2011	< 0.1	mg/L	no
Nitrate	September 15,2011	0.3	mg/L	no

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	n/a		
Distribution	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	Sept 15, 2011	< 0.3	µg /L	no
Aldicarb	Sept 15, 2011	< 3	µg /L	no
Aldrin + Dieldrin	Sept 15, 2011	< 0.02	µg /L	no
Atrazine + N-dealkylated metabolites	Sept 15, 2011	< 0.5	µg /L	no
Azinphos-methyl	Sept 15, 2011	< 1	µg /L	no
Bendiocarb	Sept 15, 2011	< 3	µg /L	no
Benzene	Sept 15, 2011	< 0.5	µg /L	no
Benzo(a)pyrene	Sept 15, 2011	< 0.005	µg /L	no
Bromoxynil	Sept 15, 2011	< 0.3	µg /L	no
Carbaryl	Sept 15, 2011	< 3	µg /L	no
Carbofuran	Sept 15, 2011	< 1	µg /L	no
Carbon Tetrachloride	Sept 15, 2011	< 0.2	µg /L	no
Chlordane (Total)	Sept 15, 2011	< 0.04	µg /L	no
Chlorpyrifos	Sept 15, 2011	< 0.5	µg /L	no
Cyanazine	Sept 15, 2011	< 0.5	µg /L	no

Diazinon	Sept 15, 2011	< 1	µg /L	no
Dicamba	Sept 15, 2011	< 5	µg /L	no
1,2-Dichlorobenzene	Sept 15, 2011	< 0.1	µg /L	no
1,4-Dichlorobenzene	Sept 15, 2011	< 0.2	µg /L	no
Dichlorodiphenyltrichloroethane (DDT) + metabolites	Sept 15, 2011	< 0.1	µg /L	no
1,2-Dichloroethane	Sept 15, 2011	< 0.1	µg /L	no
1,1-Dichloroethylene (vinylidene chloride)	Sept 15, 2011	< 0.2	µg /L	no
Dichloromethane	Sept 15, 2011	< 0.3	µg /L	no
2-4 Dichlorophenol	Sept 15, 2011	< 0.1	µg /L	no
2,4-Dichlorophenoxy acetic acid (2,4-D)	Sept 15, 2011	< 5	µg /L	no
Diclofop-methyl	Sept 15, 2011	< 0.5	µg /L	no
Dimethoate	Sept 15, 2011	< 1	µg /L	no
Dinoseb	Sept 15, 2011	< 0.5	µg /L	no
Diquat	Sept 15, 2011	< 5	µg /L	no
Diuron	Sept 15, 2011	< 5	µg /L	no
Glyphosate	Sept 15, 2011	< 25	µg /L	no
Heptachlor + Heptachlor Epoxide	Sept 15, 2011	< 0.1	µg /L	no
Lindane (Total)	Sept 15, 2011	< 0.1	µg /L	no
Malathion	Sept 15, 2011	< 5	µg /L	no
Methoxychlor	Sept 15, 2011	< 0.1	µg /L	no
Metolachlor	Sept 15, 2011	< 3	µg /L	no
Metribuzin	Sept 15, 2011	< 3	µg /L	no



Monochlorobenzene	Sept 15, 2011	< 0.2	µg /L	no
Paraquat	Sept 15, 2011	< 1	µg /L	no
Parathion	Sept 15, 2011	< 3	µg /L	no
Pentachlorophenol	Sept 15, 2011	< 0.1	µg /L	no
Phorate	Sept 15, 2011	< 0.3	µg /L	no
Picloram	Sept 15, 2011	< 5	µg /L	no
Polychlorinated Biphenyls(PCB)	Sept 15, 2011	< 0.05	µg /L	no
Prometryne	Sept 15, 2011	< 0.1	µg /L	no
Simazine	Sept 15, 2011	< 0.5	µg /L	no
THM (NOTE: show latest annual average)	2011	72.4	µg /L	no
Temephos	Sept 15, 2011	< 10	µg /L	no
Terbufos	Sept 15, 2011	< 0.3	µg /L	no
Tetrachloroethylene	Sept 15, 2011	< 0.2	µg /L	no
2,3,4,6-Tetrachlorophenol	Sept 15, 2011	< 0.1	µg /L	no
Triallate	Sept 15, 2011	< 10	µg /L	no
Trichloroethylene	Sept 15, 2011	< 0.1	µg /L	no
2,4,6-Trichlorophenol	Sept 15, 2011	< 0.1	µg /L	no
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	Sept 15, 2011	< 10	µg /L	no
Trifluralin	Sept 15, 2011	< 0.5	µg /L	no
Vinyl Chloride	Sept 15, 2011	< 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			