



2013 ANNUAL REPORT

Drinking-Water System Licence:	220002832 (OAP 177)
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, 2013 to December 31, 2013

<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; margin-top: 10px;"> <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, 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



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

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 3,900 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 1996-97. 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, including booster pump.



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

List all water treatment chemicals used over this reporting period

- Liquid Chlorine (Compressed gas)
- Hydrated Lime or Caustic Soda
- Sodium Aluminate
- Sodium Silicate
- Liquid Poly Hydroxy Aluminum Sulphate (PAS-8) or Alum
- 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

- Replace Flow meter (Magflow) for Raw Water (\$ 8,000)
- Replace Filter Media (Anthracite and Sand) for filter #1 & #2 (\$ 35,000)
- Repair VFD fan for Raw Water Pump #1 (\$ 5,000)
- Replace High Lift pump #2 and general maintenance for High Lift pump #1 (\$ 25,000)
- Replace Sump pump (Flyght) in the high lift room (\$ 3,000)

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
none					

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) – (560)	(4) – (2860)	n/a	
Treated	52	(0) – (0)	(0) – (0)	43	(2) – (2)
Distribution	419	(0) – (0)	(0) – (0)	105	(2) - (18)

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	(0.08) – (0.34) NTU
Chlorine	8760	(0.53) – (1.15)
Fluoride	8760	(0.08) – (0.79)

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) – (13)	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	Exceedances
Antimony	September 30, 2013	< 0.0001	mg/L	no
Arsenic	September 30, 2013	0.0006	mg/L	no
Barium	September 30, 2013	0.018	mg/L	no
Boron	September 30, 2013	< 0.005	mg/L	no
Cadmium	September 30, 2013	< 0.00002	mg/L	no
Chromium	September 30, 2013	< 0.002	mg/L	no
Mercury	September 30, 2013	< 0.00002	mg/L	no
Selenium	September 30, 2013	< 0.001	mg/L	no
Uranium	September 30, 2013	< 0.00005	mg/L	no
Nitrite	November 18, 2013	< 0.1	mg/L	no
Nitrate	November 18, 2013	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	68	(0.00005) – (0.0172)	1
Distribution	4	(0.00047) – (0.00309)	0

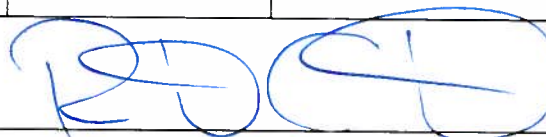
Summary of Organic parameters sampled during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	September 30, 2013	< 0.3	µg /L	no
Aldicarb	September 30, 2013	< 3	µg /L	no
Aldrin + Dieldrin	September 30, 2013	< 0.02	µg /L	no
Atrazine + N-dealkylated metabolites	September 30, 2013	< 0.5	µg /L	no
Azinphos-methyl	September 30, 2013	< 1	µg /L	no
Bendiocarb	September 30, 2013	< 3	µg /L	no
Benzene	September 30, 2013	< 0.5	µg /L	no
Benzo(a)pyrene	September 30, 2013	< 0.005	µg /L	no
Bromoxynil	September 30, 2013	< 0.3	µg /L	no
Carbaryl	September 30, 2013	< 3	µg /L	no
Carbofuran	September 30, 2013	< 1	µg /L	no
Carbon Tetrachloride	September 30, 2013	< 0.2	µg /L	no
Chlordane (Total)	September 30, 2013	< 0.04	µg /L	no
Chlorpyrifos	September 30, 2013	< 0.5	µg /L	no
Cyanazine	September 30, 2013	< 0.5	µg /L	no
Diazinon	September 30, 2013	< 1	µg /L	no
Dicamba	September 30, 2013	< 5	µg /L	no
1,2-Dichlorobenzene	September 30, 2013	< 0.1	µg /L	no
1,4-Dichlorobenzene	September 30, 2013	< 0.2	µg /L	no
Dichlorodiphenyltrichloroethane (DDT) + metabolites	September 30, 2013	< 0.01	µg /L	no
1,2-Dichloroethane	September 30, 2013	< 0.1	µg /L	no
1,1-Dichloroethylene (vinylidene chloride)	September 30, 2013	< 0.1	µg /L	no
Dichloromethane	September 30, 2013	< 0.3	µg /L	no
2,4 Dichlorophenol 2,4	September 30, 2013	< 0.1	µg /L	no
2,4-Dichlorophenoxy acetic acid (2,4-D)	September 30, 2013	< 5	µg /L	no

Diclofop-methyl	September 30, 2013	< 0.5	µg /L	no
Dimethoate	September 30, 2013	< 1	µg /L	no
Dinoseb	September 30, 2013	< 0.5	µg /L	no
Diquat	September 30, 2013	< 5	µg /L	no
Diuron	September 30, 2013	< 5	µg /L	no
Glyphosate	September 30, 2013	< 25	µg /L	no
Heptachlor + Heptachlor Epoxide	September 30, 2013	< 0.1	µg /L	no
Lindane (Total)	September 30, 2013	< 0.1	µg /L	no
Malathion	September 30, 2013	< 5	µg /L	no
Methoxychlor	September 30, 2013	< 0.1	µg /L	no
Metolachlor	September 30, 2013	< 3	µg /L	no
Metribuzin	September 30, 2013	< 3	µg /L	no
Monochlorobenzene	September 30, 2013	< 0.2	µg /L	no
Paraquat	September 30, 2013	< 1	µg /L	no
Parathion	September 30, 2013	< 3	µg /L	no
Pentachlorophenol	September 30, 2013	< 0.1	µg /L	no
Phorate	September 30, 2013	< 0.3	µg /L	no
Picloram	September 30, 2013	< 5	µg /L	no
Polychlorinated Biphenyls(PCB)	September 30, 2013	< 0.05	µg /L	no
Prometryne	September 30, 2013	< 0.1	µg /L	no
Simazine	September 30, 2013	< 0.5	µg /L	no
THM	December 18, 2013	88.1	µg /L	no
Temephos	September 30, 2013	< 10	µg /L	no
Terbufos	September 30, 2013	< 0.3	µg /L	no
Tetrachloroethylene	September 30, 2013	< 0.2	µg /L	no
2,3,4,6-Tetrachlorophenol	September 30, 2013	< 0.1	µg /L	no
Triallate	September 30, 2013	< 10	µg /L	no
Trichloroethylene	September 30, 2013	< 0.1	µg /L	no
2,4,6-Trichlorophenol	September 30, 2013	< 0.1	µg /L	no
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	September 30, 2013	< 10	µg /L	no
Trifluralin	September 30, 2013	< 0.5	µg /L	no
Vinyl Chloride	September 30, 2013	< 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
none			



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