



2017 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, 2017 to December 31, 2017

<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 (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 3,400 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 Aluminate
- Sodium Silicate
- Liquid Poly Hydroxy Aluminum Sulphate (PAS-8)
- Alum
- Hydro Fluosilicic Acid
- Polyphosphate

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 watermain **Régent St. & Bon Pasteur St.**
Estimate expenses : \$ 2 000 000
- 1 Electric Motor **Highlift pump Water treatment plant**
Estimate expenses: \$ 12 000
- 1 Electric Motor **Backwash pump Water treatment plant**
Estimate expenses: \$14 000
- 2 Level Sensor (Clearwell et Ultrapulsator)
Estimate expenses \$ 10 000
- 1 Flow Meter **Water treatment plant**
Estimate expenses \$ 8 000

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
April 04, 2017	Free Chlorine	0.03	mg/l	Flush hydrant	April 04, 2017

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) – (68)	(2) – (880)	n/a	n/a
Treated	52	(0) – (0)	(0) – (0)	52	(2) – (16)
Distribution	400	(0) – (0)	(0) – (0)	154	(2) - (58)

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) – (0.38) NTU
Chlorine	8760	(0.60) – (1.17)
Fluoride	8760	(0.53) – (0.74)

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	TSS Creek discharge	1/ month	(6) – (25)	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 18, 2017	< 0.0001	mg/L	no
Arsenic	September 18, 2017	0.0004	mg/L	no
Barium	September 18, 2017	0.013	mg/L	no
Boron	September 18, 2017	0.006	mg/L	no
Cadmium	September 18, 2017	< 0.000014	mg/L	no
Chromium	September 18, 2017	< 0.002	mg/L	no
Mercury	September 18, 2017	< 0.00002	mg/L	no
Selenium	September 18, 2017	< 0.001	mg/L	no
Sodium	March 29, 2016	7.50	mg/L	no
Uranium	September 18, 2017	< 0.00005	mg/L	no
Nitrite	November 21, 2017	< 0.1	mg/L	no
Nitrate	November 21, 2017	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	6	(< 0.00003) – (0.00139)	none
Distribution	8	(< 0.00002) – (0.00018)	none

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 18, 2017	< 0.3	µg /L	no
Atrazine + N-dealkylated metabolites	September 18, 2017	< 0.5	µg /L	no
Azinphos-methyl	September 18, 2017	< 1	µg /L	no
Benzene	September 18, 2017	< 0.5	µg /L	no
Benzo(a)pyrene	September 18, 2017	< 0.005	µg /L	no
Bromoxynil	September 18, 2017	< 0.3	µg /L	no
Carbaryl	September 18, 2017	< 3	µg /L	no
Carbofuran	September 18, 2017	< 1	µg /L	no
Carbon Tetrachloride	September 18, 2017	< 0.2	µg /L	no
Chlorpyrifos	September 18, 2017	< 0.5	µg /L	no
Diazinon	September 18, 2017	< 1	µg /L	no
Dicamba	September 18, 2017	< 5	µg /L	no
1,2-Dichlorobenzene	September 18, 2017	< 0.1	µg /L	no
1,4-Dichlorobenzene	September 18, 2017	< 0.2	µg /L	no
1,2-Dichloroethane	September 18, 2017	< 0.1	µg /L	no
1,1-Dichloroethylene (vinylidene chloride)	September 18, 2017	< 0.1	µg /L	no
Dichloromethane	September 18, 2017	< 0.3	µg /L	no
2-4 Dichlorophenol 2,4	September 18, 2017	< 0.1	µg /L	no
2,4-Dichlorophenoxy acetic acid (2,4-D)	September 18, 2017	< 5	µg /L	no
Diclofop-methyl	September 18, 2017	< 0.5	µg /L	no
Dimethoate	September 18, 2017	< 1	µg /L	no
Diquat	September 18, 2017	< 5	µg /L	no
Diuron	September 18, 2017	< 5	µg /L	no
Glyphosate	September 18, 2017	< 25	µg /L	no
Malathion	September 18, 2017	< 5	µg /L	no
MCPA	September 18, 2017	< 0.00012	mg/L	no



Metolachlor	September 18, 2017	< 3	µg /L	no
Metribuzin	September 18, 2017	< 3	µg /L	no
Monochlorobenzene	September 18, 2017	< 0.2	µg /L	no
Paraquat	September 18, 2017	< 1	µg /L	no
Pentachlorophenol	September 18, 2017	< 0.1	µg /L	no
Phorate	September 18, 2017	< 0.3	µg /L	no
Picloram	September 18, 2017	< 5	µg /L	no
Polychlorinated Biphenyls(PCB)	September 18, 2017	< 0.05	µg /L	no
Prometryne	September 18, 2017	< 0.1	µg /L	no
Simazine	September 18, 2017	< 0.5	µg /L	no
THM	November 21, 2017	49.9	µg /L	no
Terbufos	September 18, 2017	< 0.3	µg /L	no
Tetrachloroethylene	September 18, 2017	< 0.2	µg /L	no
2,3,4,6-Tetrachlorophenol	September 18, 2017	< 0.1	µg /L	no
Triallate	September 18, 2017	< 10	µg /L	no
Trichloroethylene	September 18, 2017	< 0.1	µg /L	no
2,4,6-Trichlorophenol	September 18, 2017	< 0.1	µg /L	no
Trifluralin	September 18, 2017	< 0.5	µg /L	no
Vinyl Chloride	September 18, 2017	< 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			

Prepared by Martin Perron
Revised by Richard Guertin