

**Section 11. ANNUAL REPORT.**

<b>Drinking-Water System Number:</b>	210003912
<b>Drinking-Water System Name:</b>	Finch Drinking Water System
<b>Drinking-Water System Owner:</b>	Township of North Stormont
<b>Drinking-Water System Category:</b>	Large Municipal Residential
<b>Period being reported:</b>	January 1 to December 31, 2016

<p><b><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></b></p> <p><b>Does your Drinking-Water System serve more than 10,000 people? Yes [ ] No [x]</b></p> <p><b>Is your annual report available to the public at no charge on a web site on the Internet? Yes [x] No [ ]</b></p> <p><b>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</b></p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">                 Available at the Township of North Stormont Office, 15 Union Street, Berwick, Ontario and on their website <a href="http://www.northstormont.ca">www.northstormont.ca</a> </div>	<p><b><u>Complete for all other Categories.</u></b></p> <p><b>Number of Designated Facilities served:</b>  <input style="width: 100px; height: 20px;" type="text"/></p> <p><b>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [ ] No [ ]</b></p> <p><b>Number of Interested Authorities you report to:</b> <input style="width: 100px; height: 20px;" type="text"/></p> <p><b>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [ ] No [ ]</b></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
n/a	n/a

**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 [ ] N/A [x]**

**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**

The Finch Drinking Water System consists of two wells, a pump house with treatment, a clearwell, an elevated storage tank and approximately 9 kilometers of distribution watermains. Groundwater is pumped from one of two source wells through an aeration tower for hydrogen sulphide removal. From the tower, water flows to a contact tank where sodium hypochlorite is added and allowed sufficient time for disinfection. As water is used throughout the distribution system, the level of the water tower falls to a preset limit and a pump in the plant starts. The pump draws water from the contact tank and forces it through pressure filters and out of the treatment plant to refill the water tower.

**List all water treatment chemicals used over this reporting period**

Sodium hypochlorite was used at an average dosage rate of 4.3 mg/L.

**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**

- Rebuilt 4 hydrants
- Repaired distribution chlorine analyzer
- Replaced chlorine pump at water plant
- Replaced sludge pump in backwash tank at water plant
- Replaced dehumidifier at water plant
- Repaired valve boxes and blow-offs in distribution system

**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
n/a					

### Microbiological testing done under the Schedule 10, 11 or 12 of Regulation 170/03, during this reporting period.

	Number of Samples	Range of <i>E. coli</i> Or Fecal Results (min #)-(max #)	Range of Total Coliform Results (min #)-(max #)	Number of HPC Samples	Range of HPC Results (min #)-(max #)
<b>Raw</b>	104	0 - 0	0 - 2	n/a	n/a
<b>Treated</b>	52	0 - 0	0 - 0	52	0 - 2000
<b>Distribution</b>	104	0 - 0	0 - 0	52	0 - 2000

### 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 #)
<b>Turbidity</b>	24	0.19 - 0.36 NTU
<b>Chlorine</b>	8760	0.34 - 3.00 mg/L

*NOTE: For continuous monitors use 8760 as the number of samples.*

### 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
n/a				

### Summary of Inorganic parameters tested during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
<b>Antimony</b>	01/21/2015	<0.0001	mg / L	No
<b>Arsenic</b>	01/21/2015	0.0009	mg / L	No
<b>Barium</b>	01/21/2015	0.377	mg / L	No
<b>Boron</b>	01/21/2015	0.177	mg / L	No
<b>Cadmium</b>	01/21/2015	<0.00002	mg / L	No
<b>Chromium</b>	01/21/2015	<0.002	mg / L	No
<b>*Lead</b>	n/a	n/a	mg / L	No
<b>Mercury</b>	01/21/2015	<0.00002	mg / L	No
<b>Selenium</b>	01/21/2015	0.002	mg / L	No
<b>Sodium</b>	01/10/2012	82	mg / L	Yes
<b>Uranium</b>	01/21/2015	0.00008	mg / L	No
<b>Fluoride</b>	01/10/2012	0.51	mg / L	No
<b>Nitrite</b>	10/03/2016	<0.003	mg / L	No
<b>Nitrate</b>	10/03/2016	0.111	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	n/a	n/a	n/a
Distribution	1	0.13 µg / L	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	01/21/2015	<0.3	µg / L	No
Aldicarb	01/21/2015	<3	µg / L	No
Aldrin + Dieldrin	01/21/2015	<0.02	µg / L	No
Atrazine + N-dealkylated metabolites	01/21/2015	<0.5	µg / L	No
Azinphos-methyl	01/21/2015	<1	µg / L	No
Bendiocarb	01/21/2015	<3	µg / L	No
Benzene	01/21/2015	<0.5	µg / L	No
Benzo(a)pyrene	01/21/2015	<0.005	µg / L	No
Bromoxynil	01/21/2015	<0.3	µg / L	No
Carbaryl	01/21/2015	<3	µg / L	No
Carbofuran	01/21/2015	<1	µg / L	No
Carbon Tetrachloride	01/21/2015	<0.2	µg / L	No
Chlordane (Total)	01/21/2015	<0.04	µg / L	No
Chlorpyrifos	01/21/2015	<0.5	µg / L	No
Cyanazine	01/21/2015	<0.5	µg / L	No
Diazinon	01/21/2015	<1	µg / L	No
Dicamba	01/21/2015	<5	µg / L	No
1,2-Dichlorobenzene	01/21/2015	<0.1	µg / L	No
1,4-Dichlorobenzene	01/21/2015	<0.2	µg / L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	01/21/2015	<0.01	µg / L	No
1,2-Dichloroethane	01/21/2015	<0.1	µg / L	No
1,1-Dichloroethylene (vinylidene chloride)	01/21/2015	<0.1	µg / L	No
Dichloromethane	01/21/2015	<0.3	µg / L	No
2-4 Dichlorophenol	01/21/2015	<0.1	µg / L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	01/21/2015	<5	µg / L	No
Diclofop-methyl	01/21/2015	<0.5	µg / L	No
Dimethoate	01/21/2015	<1	µg / L	No
Dinoseb	01/21/2015	<0.5	µg / L	No
Diquat	01/21/2015	<5	µg / L	No
Diuron	01/21/2015	<5	µg / L	No
Glyphosate	01/21/2015	<25	µg / L	No
Heptachlor + Heptachlor Epoxide	01/21/2015	<0.1	µg / L	No
Lindane (Total)	01/21/2015	<0.1	µg / L	No
Malathion	01/21/2015	<5	µg / L	No
Methoxychlor	01/21/2015	<0.1	µg / L	No
Metolachlor	01/21/2015	<3	µg / L	No

<b>Metribuzin</b>	01/21/2015	<3	µg / L	No
<b>Monochlorobenzene</b>	01/21/2015	<0.2	µg / L	No
<b>Paraquat</b>	01/21/2015	<1	µg / L	No
<b>Parathion</b>	01/21/2015	<3	µg / L	No
<b>Pentachlorophenol</b>	01/21/2015	<0.1	µg / L	No
<b>Phorate</b>	01/21/2015	<0.3	µg / L	No
<b>Picloram</b>	01/21/2015	<5	µg / L	No
<b>Polychlorinated Biphenyls(PCB)</b>	01/21/2015	<0.05	µg / L	No
<b>Prometryne</b>	01/21/2015	<0.1	µg / L	No
<b>Simazine</b>	01/21/2015	<0.5	µg / L	No
<b>THM</b> (NOTE: show latest annual average)	10/03/2016	62.6	mg / L	No
<b>Temephos</b>	01/21/2015	<10	µg / L	No
<b>Terbufos</b>	01/21/2015	<0.3	µg / L	No
<b>Tetrachloroethylene</b>	01/21/2015	<0.2	µg / L	No
<b>2,3,4,6-Tetrachlorophenol</b>	01/21/2015	<0.1	µg / L	No
<b>Triallate</b>	01/21/2015	<10	µg / L	No
<b>Trichloroethylene</b>	01/21/2015	<0.1	µg / L	No
<b>2,4,6-Trichlorophenol</b>	01/21/2015	<0.1	µg / L	No
<b>2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)</b>	01/21/2015	<10	µg / L	No
<b>Trifluralin</b>	01/21/2015	<0.5	µg / L	No
<b>Vinyl Chloride</b>	01/21/2015	<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			