

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

<b>Drinking-Water System Number:</b>	210000586
<b>Drinking-Water System Name:</b>	Winchester
<b>Drinking-Water System Owner:</b>	Township of North Dundas
<b>Drinking-Water System Category:</b>	Large Municipal Residential
<b>Period being reported:</b>	January 1 to December 31, 2008

<p><b><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></b></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [ ] No [x]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [x] No [ ]</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;">                 Available at the Township of North Dundas Office, 636 St. Lawrence Street, Winchester, Ontario and on their website <a href="http://www.northdundas.com">www.northdundas.com</a> </div>	<p><b><u>Complete for all other Categories.</u></b></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 [ ] No [ ]</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 [ ] No [ ]</p>
---	--

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**

As water is used throughout the distribution system, the level of the water tower falls to a preset limit and 4 well pumps start. Groundwater is pumped through the Well houses where Sodium Hypochlorite is added. The water is directed from each well through feeder mains to refill the tower.

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

Sodium hypochlorite was used at an average dosage rate of 4.70 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**

Installed cathodic protection on main line valves  
 Rebuilt 8 fire hydrants  
 Purchased pump for Well #7-C  
 Purchased variable frequency drive and filter for Well #7-C  
 Installed well level monitor at Well #5  
 Purchased and installed variable frequency drive for Well #5  
 Purchased well level monitor for Well #1

**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 E.Coli 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>	532	0-0	0-58	0	n/a
<b>Treated</b>	636	0-0	0-0	212	0-6
<b>Distribution</b>	371	0-0	0-0	53	0-9

### 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>	60	0.10 – 0.67 NTU
<b>Chlorine</b>	8760	0.20 – 4.96 mg/L
<b>Fluoride</b>	n/a	n/a

*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	Minimum Sample Date	Maximum Sample Date	Minimum Value	Maximum Value	Unit of Measure	Exceedance
<b>Antimony</b>	01/25/2006	01/25/2006	<0.001	<0.001	mg/L	No
<b>Arsenic</b>	01/25/2006	01/25/2006	<0.001	<0.001	mg / L	No
<b>Barium</b>	01/25/2006	01/25/2006	0.03	0.14	mg / L	No
<b>Boron</b>	01/25/2006	01/25/2006	0.06	0.95	mg / L	No
<b>Cadmium</b>	01/25/2006	01/25/2006	<0.0001	<0.0001	mg / L	No
<b>Chromium</b>	01/25/2006	01/25/2006	0.002	0.003	mg / L	No
<b>*Lead</b>	n/a	n/a	n/a	n/a	mg / L	No
<b>Mercury</b>	01/25/2006	01/25/2006	<0.0001	<0.0001	mg / L	No
<b>Selenium</b>	01/25/2006	01/25/2006	<0.001	0.002	mg / L	No
<b>Uranium</b>	01/25/2006	01/25/2006	<0.001	<0.001	mg / L	No
<b>Sodium</b>	01/08/2007	01/08/2007	9	116	mg / L	Yes
<b>Fluoride</b>	01/08/2007	01/08/2007	0.11	0.31	mg / L	No
<b>Nitrite</b>	07/14/2008	10/08/2008	<0.005	<0.10	mg / L	No
<b>Nitrate</b>	07/14/2008	05/07/2008	<0.013	0.63	mg / L	No

**Summary of lead testing under Schedule 15.1 during this reporting period**

Location Type	Number of Samples	Range of Lead Results (min#) – (max #)	Number of Exceedances
Plumbing	88	<0.001-0.005	0
Distribution	8	<0.001-<0.001	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	01/25/2006	<0.5	ug / L	No
Aldicarb	01/25/2006	<9	ug / L	No
Aldrin + Dieldrin	01/25/2006	<0.012	ug / L	No
Atrazine + N-dealkylated metabolites	01/25/2006	<0.2	ug / L	No
Azinphos-methyl	01/25/2006	<2	ug / L	No
Bendiocarb	01/25/2006	<2	ug / L	No
Benzene	01/25/2006	<0.5	ug / L	No
Benzo(a)pyrene	01/25/2006	<0.01	ug / L	No
Bromoxynil	01/25/2006	<0.5	ug / L	No
Carbaryl	01/25/2006	<5	ug / L	No
Carbofuran	01/25/2006	<5	ug / L	No
Carbon Tetrachloride	01/25/2006	<0.5	ug / L	No
Chlordane (Total)	01/25/2006	<0.018	ug / L	No
Chlorpyrifos	01/25/2006	<1	ug / L	No
Cyanazine	01/25/2006	<1	ug / L	No
Diazinon	01/25/2006	<1	ug / L	No
Dicamba	01/25/2006	<1	ug / L	No
1,2-Dichlorobenzene	01/25/2006	<0.4	ug / L	No
1,4-Dichlorobenzene	01/25/2006	<0.4	ug / L	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	01/25/2006	<0.024	ug / L	No
1,2-Dichloroethane	01/25/2006	<0.5	ug / L	No
1,1-Dichloroethylene (vinylidene chloride)	01/25/2006	<0.5	ug / L	No
Dichloromethane	01/25/2006	<4.0	ug / L	No
2-4 Dichlorophenol	01/25/2006	<0.5	ug / L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	01/25/2006	<1	ug / L	No
Diclofop-methyl	01/25/2006	<0.9	ug / L	No
Dimethoate	01/25/2006	<2.5	ug / L	No
Dinoseb	01/25/2006	<1	ug / L	No
Diquat	01/25/2006	<7	ug / L	No
Diuron	01/25/2006	<10	ug / L	No
Glyphosate	01/25/2006	<10	ug / L	No
Heptachlor + Heptachlor Epoxide	01/25/2006	<0.012	ug / L	No
Lindane (Total)	01/25/2006	<0.006	ug / L	No
Malathion	01/25/2006	<5	ug / L	No
Methoxychlor	01/25/2006	<0.024	ug / L	No
Metolachlor	01/25/2006	<0.5	ug / L	No
Metribuzin	01/25/2006	<5	ug / L	No

<b>Monochlorobenzene</b>	01/25/2006	<0.2	ug / L	No
<b>Paraquat</b>	01/25/2006	<1	ug / L	No
<b>Parathion</b>	01/25/2006	<1	ug / L	No
<b>Pentachlorophenol</b>	01/25/2006	<0.5	ug / L	No
<b>Phorate</b>	01/25/2006	<0.5	ug / L	No
<b>Picloram</b>	01/25/2006	<5	ug / L	No
<b>Polychlorinated Biphenyls(PCB)</b>	01/25/2006	<0.1	ug / L	No
<b>Prometryne</b>	01/25/2006	<0.25	ug / L	No
<b>Simazine</b>	01/25/2006	<1	ug / L	No
<b>THM</b> (NOTE: show latest annual average)	10/08/2008	18.3	ug / L	No
<b>Temephos</b>	01/25/2006	<10	ug / L	No
<b>Terbufos</b>	01/25/2006	<0.4	ug / L	No
<b>Tetrachloroethylene</b>	01/25/2006	<0.3	ug / L	No
<b>2,3,4,6-Tetrachlorophenol</b>	01/25/2006	<0.5	ug / L	No
<b>Triallate</b>	01/25/2006	<1	ug / L	No
<b>Trichloroethylene</b>	01/25/2006	<0.3	ug / L	No
<b>2,4,6-Trichlorophenol</b>	01/25/2006	<0.5	ug / L	No
<b>2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)</b>	01/25/2006	<1	ug / L	No
<b>Trifluralin</b>	01/25/2006	<0.4	ug / L	No
<b>Vinyl Chloride</b>	01/25/2006	<0.2	ug / 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			