



OPTIONAL ANNUAL REPORT TEMPLATE

Drinking-Water System Number:	220008140
Drinking-Water System Name:	Barwick Well Supply
Drinking-Water System Owner:	Corporation of the Township of Chapple
Drinking-Water System Category:	Small 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 [] 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> <table border="1" style="width: 100%;"> <tr> <td>Chapple Municipal Office Chapple Water Treatment Plant</td> </tr> </table>	Chapple Municipal Office Chapple Water Treatment Plant	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served:</p> <table border="1" style="width: 100%;"> <tr> <td style="height: 20px;"></td> </tr> </table> <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:</p> <table border="1" style="width: 100%;"> <tr> <td style="width: 100px; height: 20px;"></td> </tr> </table> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []</p>		
Chapple Municipal Office Chapple Water Treatment Plant				

Note: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report

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

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 Newsletter_____

Describe your Drinking-Water System

Ground water treatment plant with softening, coagulation, flocculation, sedimentation, filtration, chlorination and pH adjustment

List all water treatment chemicals used over this reporting period

Lime, Carbon Dioxide gas, and Sodium-Hypochlorite 12%

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

- Replaced a section of Distribution Header Piping (6 inch) in the Water Treatment Plant
- Replaced Well Pump #1 with the Spare Pump from #6 and added and additional 50 feet of drop pipe. The new pipe ordered was 250' of 1 1/2" Municipal Service Pipe

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
Sept 21/11	Sodium	33.8	Mg/l	Resample	Sept 26/11

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	36	Absent	30 – Absent 6 – Present		
Treated					
Distribution	27	Absent	Absent	27	0 - 40

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 #)	Unit of Measure
Turbidity	8760	0.021 – 0.152	NTU
Chlorine	8760	0.32 – 1.06	Mg/l
Fluoride (If the DWS provides fluoridation)			

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

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	Nov 24/10	<0.60	Ug/l	No
Arsenic	Nov 24/10	<1	Ug/l	No
Barium	Nov 24/10	<10	Ug/l	No
Boron	Nov 24/10	84	Ug/l	No
Cadmium	Nov 24/10	<0.1	Ug/l	No
Chromium	Nov 24/10	3.8	Ug/l	No
*Lead				
Mercury	Nov 24/10	<0.10	Ug/l	No
Selenium	Nov 24/10	<1.0	Ug/l	No
Sodium	Sept 12/11	33.8	Mg/l	Yes
Uranium	Nov 24/10	<2.0	Ug/l	No
Fluoride	Mar 15/10	0.081	Mg/l	No



Nitrite	Dec 11/13	<0.10	Mg/l	No
Nitrate	Dec 11/13	0.21	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 #)	Unit of Measure	Number of Exceedances
Plumbing				
Distribution	2	<1.0 - <1.0	Ug/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	Mar 14/11	<0.1	Ug/l	No
Aldicarb	Mar 14/11	<1.0	Ug/l	No
Aldrin + Dieldrin	Mar 14/11	<0.040	Ug/l	No
Atrazine + N-dealkylated metabolites	Mar 14/11	<0.20	Ug/l	No
Azinphos-methyl	Mar 14/11	<0.10	Ug/l	No
Bendiocarb	Mar 14/11	<0.20	Ug/l	No
Benzene	Mar 14/11	<0.50	Ug/l	No
Benzo(a)pyrene	Mar 14/11	<0.010	Ug/l	No
Bromoxynil	Mar 14/11	<0.20	Ug/l	No
Carbaryl	Mar 14/11	<0.20	Ug/l	No
Carbofuran	Mar 14/11	<0.20	Ug/l	No
Carbon Tetrachloride	Mar 14/11	<0.50	Ug/l	No
Chlordane (Total)	Mar 14/11	<0.30	Ug/l	No
Chlorpyrifos	Mar 14/11	<0.10	Ug/l	No
Cyanazine	Mar 14/11	<0.10	Ug/l	No
Diazinon	Mar 14/11	<0.10	Ug/l	No
Dicamba	Mar 14/11	<0.20	Ug/l	No
1,2-Dichlorobenzene	Mar 14/11	<0.50	Ug/l	No
1,4-Dichlorobenzene	Mar 14/11	<0.50	Ug/l	No
Dichlorodiphenyltrichloroethane (DDT) + metabolites	Mar 14/11	<0.40	Ug/l	No
1,2-Dichloroethane	Mar 14/11	<0.50	Ug/l	No
1,1-Dichloroethylene (vinylidene chloride)	Mar 14/11	<0.50	Ug/l	No
Dichloromethane	Mar 14/11	<0.50	Ug/l	No
2-4 Dichlorophenol	Mar 14/11	<0.30	Ug/l	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Mar 14/11	<0.20	Ug/l	No



Diclofop-methyl	Mar 14/11	<0.20	Ug/l	No
Dimethoate	Mar 14/11	<0.10	Ug/l	No
Dinoseb	Mar 14/11	<0.20	Ug/l	No
Diquat	Mar 14/11	<1.0	Ug/l	No
Diuron	Mar 14/11	<1.0	Ug/l	No
Glyphosate	Mar 14/11	<5.0	Ug/l	No
Heptachlor + Heptachlor Epoxide	Mar 14/11	<0.20	Ug/l	No
Lindane (Total)	Mar 14/11	<0.10	Ug/l	No
Malathion	Mar 14/11	<0.10	Ug/l	No
Methoxychlor	Mar 14/11	<0.10	Ug/l	No
Metolachlor	Mar 14/11	<0.10	Ug/l	No
Metribuzin	Mar 14/11	<0.10	Ug/l	No
Monochlorobenzene	Mar 14/11	<0.50	Ug/l	No
Paraquat	Mar 14/11	<1.0	Ug/l	No
Parathion	Mar 14/11	<0.10	Ug/l	No
Pentachlorophenol	Mar 14/11	<0.50	Ug/l	No
Phorate	Mar 14/11	<0.10	Ug/l	No
Picloram	Mar 14/11	<0.20	Ug/l	No
Polychlorinated Biphenyls(PCB)	Mar 14/11	<0.035	Ug/l	No
Prometryne	Mar 14/11	<0.10	Ug/l	No
Simazine	Mar 14/11	<0.10	Ug/l	No
THM (NOTE: show latest annual average)	2013 Average	69.9	Ug/l	No
Temephos	Mar 14/11	<0.10	Ug/l	No
Terbufos	Mar 14/11	<0.20	Ug/l	No
Tetrachloroethylene	Mar 14/11	<0.50	Ug/l	No
2,3,4,6-Tetrachlorophenol	Mar 14/11	<0.50	Ug/l	No
Triallate	Mar 14/11	<0.10	Ug/l	No
Trichloroethylene	Mar 14/11	<0.50	Ug/l	No
2,4,6-Trichlorophenol	Mar 14/11	<0.50	Ug/l	No
2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)	Mar 14/11	<0.20	Ug/l	No
Trifluralin	Mar 14/11	<0.10	Ug/l	No
Vinyl Chloride	Mar 14/11	<0.50	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
Sodium	33.8	Mg/l	Sept 12, 2011