



OPTIONAL ANNUAL REPORT TEMPLATE

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| 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: <input 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 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> |
| 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 | <i>NOTE: For continuous monitors use 8760 as the number of samples.</i> |
|---|------------------------|----------------------------------|-----------------|---|
| Turbidity | 8760 | 0.021 – 0.152 | NTU | |
| Chlorine | 8760 | 0.32 – 1.06 | Mg/l | |
| Fluoride (If the DWS provides fluoridation) | | | | |

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 |
| | | | |