



**OPTIONAL ANNUAL REPORT TEMPLATE**

|  |                              |
|--|------------------------------|
| <b>Drinking-Water System Number:</b>   | 20003369                     |
| <b>Drinking-Water System Name:</b>     | Ridgetown Well Supply System |
| <b>Drinking-Water System Owner:</b>    | Municipality of Chatham-Kent |
| <b>Drinking-Water System Category:</b> | Large Municipal Residential  |
| <b>Period being reported:</b>          | January - December 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;"> <p>Chatham-Kent PUC Office<br/>325 Grand Ave E<br/>Box 1191 Chatham, ON<br/>N7M 5L8</p> </div> | <p><b><u>Complete for all other Categories.</u></b></p> <p>Number of Designated Facilities served:<br/><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> |
|--|---|

**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 |
|----------------------------|------------------------------|
| None                       |                              |

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**

The Ridgetown Well Supply consists of 6 wells. Three wells, No. 4, No. 5 and No. 6 are located at the Scane Road location, and the remaining three wells, Well 1A, Hitch Well and Harris Well, are encompassed by the Erie Street pumping system. Cascade aerators are used for methane gas treatment. Storage tanks at each site provide sodium hypochlorite for prechlorination and disinfection. Reservoirs are located Scane Road and Erie Street.

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

1. Sodium Hypochlorite

**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 683 m3 reservoir including two pumps, two variable frequency drives, radio communication and SCADA system at the Erie Street site: \$1,100,000  
 Electrical control panel and controls at Harris well site: \$7,000

**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 |
|---------------|-----------|--------------------------|-----------------|------------------------------------|------------------------|
| June 27       | Lead      | 11.00                    | ug/L            | Flushing Resampled                 | July 7                 |
| July 21       | Flouride  | Erie: 1.7<br>Scane: 1.68 | mg/L            | Naturally occurring                | July 21                |
| Dec 22        | Turbidity | >1.0                     | NTU             | Disinfectant increased<br>Flushing | Dec 22                 |



**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>          | 318               | 0 - 0  | 0 - 0   |                       |                                      |
| <b>Treated</b>      | 106               | 0 - 0  | 0 - 0   | 105                   | <10 - 130                            |
| <b>Distribution</b> | 159               | 0 - 0  | 0 - 0   | 53                    | <10 - 200                            |

**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>                                   | 72                     | 0.093 - 0.688                    |
| <b>Chlorine</b>                                    | 8760                   | 1.15 - 2.70                      |
| <b>Fluoride</b> (If the DWS provides fluoridation) | Fluoride Not Provided  |                                  |

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

*NOTE: Record the unit of measure if it is **not** milligrams per litre.*

**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 | Well 1A | Hitch Well | Harris Well | Scane # 1 | Scane #2 | Scane #3 | Unit of Measure |
|---|-----------|--------------|---------|------------|-------------|-----------|----------|----------|-----------------|
| C of A 5508-5YGPL4<br>Raw from each well  | Nitrite   | Jan 7        | <0.01   | <0.01      | <0.01       | <0.01     | <0.01    | <0.01    | mg/L            |
|   | Nitrate   | Jan 7        | <0.1    | <0.1       | <0.1        | <0.1      | <0.1     | <0.1     |                 |
|   | Nitrite   | Apr 7        | <0.01   | <0.01      | <0.01       | <0.01     | <0.01    | <0.01    |                 |
|   | Nitrate   | Apr 7        | <0.1    | <0.1       | <0.1        | <0.1      | <0.1     | <0.1     |                 |
|   | Nitrite   | Jul 7        | <0.01   | <0.01      | <0.01       | <0.01     | <0.01    | <0.01    |                 |
|   | Nitrate   | Jul 7        | <0.1    | <0.1       | <0.1        | <0.1      | <0.1     | <0.1     |                 |
|   | Nitrite   | Oct 6        | <0.01   | <0.01      | <0.01       | <0.01     | <0.01    | <0.01    |                 |
|   | Nitrate   | Oct 6        | <0.1    | <0.1       | <0.1        | <0.1      | <0.1     | <0.1     |                 |
| June 26, 2003 letter from C-K Health Unit | Fluoride  | Jan 7        | Erie    | Scane      |             |           |          |          | mg/L            |
|   |           |              | 1.7     | 1.6        |             |           |          |          |                 |

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

| Parameter | Sample Date               | Result Value<br>Erie | Result Value<br>Scane | Unit of<br>Measure | Exceedance              |
|-----------|---------------------------|----------------------|-----------------------|--------------------|-------------------------|
| Antimony  | Jan 9 '07                 | <1.0                 | <1.0                  | ug/L               | No                      |
| Arsenic   | Jan 9 '07                 | <1.0                 | <1.0                  | ug/L               | No                      |
| Barium    | Jan 9 '07                 | 110                  | 190                   | ug/L               | No                      |
| Boron     | Jan 9 '07                 | 990                  | 920                   | ug/L               | No                      |
| Cadmium   | Jan 9 '07                 | <0.1                 | <0.1                  | ug/L               | No                      |
| Chromium  | Jan 9 '07                 | <5.0                 | <5.0                  | ug/L               | No                      |
| *Lead     | See Schedule 15.1 Summary |                      |                       |                    |                         |
| Mercury   | Jan 9 '07                 | <0.0001              | <0.0001               | mg/L               | No                      |
| Selenium  | Jan 9 '07                 | <2.0                 | <2.0                  | ug/L               | No                      |
| Sodium    | Nov 25 '04                | 75.3                 | 76.4                  | mg/L               | Reported<br>Dec 1 '04   |
| Uranium   | Jan 9 '07                 | <0.2                 | <0.2                  | ug/L               | No                      |
| Fluoride  | Jan 7<br>July 16          | 1.7<br>1.7           | 1.6<br>1.68           | mg/L               | Reported<br>July 21 '08 |
| Nitrite   | Oct 6                     | <0.01                | <0.01                 | mg/L               | No                      |
| Nitrate   | Oct 6                     | <0.1                 | <0.1                  | 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<br>Samples | Range of Lead<br>Results ug/L<br>(min#) – (max #) | Number of<br>Exceedances /<br>Adverses |
|-----------------|----------------------|---|--|
| Residential     | 164                  | <0.50 - 4.70                                      | 0                                      |
| Non-Residential | 16                   | <0.50 - 4.10                                      | 0                                      |
| Distribution    | 20                   | <0.50 - 11.00                                     | 1                                      |

**Summary of Organic parameters sampled during this reporting period or the most recent sample results**

| Parameter                            | Sample<br>Date | Result<br>Value<br>Erie | Result<br>Value<br>Scane | Unit of<br>Measure | Exceedance |
|--------------------------------------|----------------|-------------------------|--------------------------|--------------------|------------|
| Alachlor                             | Jan 9 '07      | <0.50                   | <0.50                    | ug/L               | No         |
| Aldicarb                             | Jan 9 '07      | <5.0                    | <5.0                     | ug/L               | No         |
| Aldrin + Dieldrin                    | Jan 9 '07      | <0.012                  | <0.012                   | ug/L               | No         |
| Atrazine + N-dealkylated metabolites | Jan 9 '07      | <1.0                    | <1.0                     | ug/L               | No         |
| Azinphos-methyl                      | Jan 9 '07      | <2.0                    | <2.0                     | ug/L               | No         |
| Bendiocarb                           | Jan 9 '07      | <2.0                    | <2.0                     | ug/L               | No         |
| Benzene                              | Jan 9 '07      | <0.1                    | <0.1                     | ug/L               | No         |
| Benzo(a)pyrene                       | Jan 9 '07      | <0.0090                 | <0.0090                  | ug/L               | No         |
| Bromoxynil                           | Jan 9 '07      | <0.50                   | <0.50                    | ug/L               | No         |
| Carbaryl                             | Jan 9 '07      | <5.0                    | <5.0                     | ug/L               | No         |
| Carbofuran                           | Jan 9 '07      | <5.0                    | <5.0                     | ug/L               | No         |



|   |   |                                      |        |      |    |
|---|---|--------------------------------------|--------|------|----|
| <b>Carbon Tetrachloride</b>   | Jan 9 '07                                   | <0.1                                 | <0.1   | ug/L | No |
| <b>Chlordane (Total)</b>  | Jan 9 '07                                   | <0.012                               | <0.012 | ug/L | No |
| <b>Chlorpyrifos</b>   | Jan 9 '07                                   | <1.0                                 | <1.0   | ug/L | No |
| <b>Cyanazine</b>  | Jan 9 '07                                   | <1.0                                 | <1.0   | ug/L | No |
| <b>Diazinon</b>   | Jan 9 '07                                   | <1.0                                 | <1.0   | ug/L | No |
| <b>Dicamba</b>  | Jan 9 '07                                   | <1.0                                 | <1.0   | ug/L | No |
| <b>1,2-Dichlorobenzene</b>  | Jan 9 '07                                   | <0.2                                 | <0.2   | ug/L | No |
| <b>1,4-Dichlorobenzene</b>  | Jan 9 '07                                   | <0.2                                 | <0.2   | ug/L | No |
| <b>Dichlorodiphenyltrichloroethane (DDT) + metabolites</b>                    | Jan 9 '07                                   | <0.024                               | <0.024 | ug/L | No |
| <b>1,2-Dichloroethane</b>   | Jan 9 '07                                   | <0.1                                 | <0.1   | ug/L | No |
| <b>1,1-Dichloroethylene (vinylidene chloride)</b>                             | Jan 9 '07                                   | <0.1                                 | <0.1   | ug/L | No |
| <b>Dichloromethane</b>  | Jan 9 '07                                   | <0.5                                 | <0.5   | ug/L | No |
| <b>2,4 Dichlorophenol</b>   | Jan 9 '07                                   | <0.50                                | <0.50  | ug/L | No |
| <b>2,4-Dichlorophenoxy acetic acid (2,4-D)</b>                                | Jan 9 '07                                   | <1.0                                 | <1.0   | ug/L | No |
| <b>Diclofop-methyl</b>  | Jan 9 '07                                   | <0.90                                | <0.90  | ug/L | No |
| <b>Dimethoate</b>   | Jan 9 '07                                   | <2.5                                 | <2.5   | ug/L | No |
| <b>Dinoseb</b>  | Jan 9 '07                                   | <1.0                                 | <1.0   | ug/L | No |
| <b>Diquat</b>   | Jan 9 '07                                   | <7.0                                 | <7.0   | ug/L | No |
| <b>Diuron</b>   | Jan 9 '07                                   | <10.0                                | <10.0  | ug/L | No |
| <b>Glyphosate</b>   | Jan 9 '07                                   | <10.0                                | <10.0  | ug/L | No |
| <b>Heptachlor + Heptachlor Epoxide</b>  | Jan 9 '07                                   | <0.012                               | <0.012 | ug/L | No |
| <b>Lindane (Total)</b>  | Jan 9 '07                                   | <0.006                               | <0.006 | ug/L | No |
| <b>Malathion</b>  | Jan 9 '07                                   | <5.0                                 | <5.0   | ug/L | No |
| <b>Methoxychlor</b>   | Jan 9 '07                                   | <0.024                               | <0.024 | ug/L | No |
| <b>Metolachlor</b>  | Jan 9 '07                                   | <0.50                                | <0.50  | ug/L | No |
| <b>Metribuzin</b>   | Jan 9 '07                                   | <5.0                                 | <5.0   | ug/L | No |
| <b>Monochlorobenzene</b>  | Jan 9 '07                                   | <0.1                                 | <0.1   | ug/L | No |
| <b>Paraquat</b>   | Jan 9 '07                                   | <1.0                                 | <1.0   | ug/L | No |
| <b>Parathion</b>  | Jan 9 '07                                   | <1.0                                 | <1.0   | ug/L | No |
| <b>Pentachlorophenol</b>  | Jan 9 '07                                   | <0.50                                | <0.50  | ug/L | No |
| <b>Phorate</b>  | Jan 9 '07                                   | <0.50                                | <0.50  | ug/L | No |
| <b>Picloram</b>   | Jan 9 '07                                   | <0.50                                | <0.50  | ug/L | No |
| <b>Polychlorinated Biphenyls(PCB)</b>   | Jan 9 '07                                   | <0.05                                | <0.05  | ug/L | No |
| <b>Prometryne</b>   | Jan 9 '07                                   | <0.25                                | <0.25  | ug/L | No |
| <b>Simazine</b>   | Jan 9 '07                                   | <1.0                                 | <1.0   | ug/L | No |
| <b>THM</b><br>(NOTE: show latest annual average)                              | Jan 7<br>Apr 7<br>Jul 7<br>Oct 6<br>'08 Avg | 31.4<br>30.7<br>31.6<br>33.5<br>31.8 |        | ug/L | No |
| 2007 POE ERIE: JAN 9 '07 – 24.6 ug/L<br>2007 POE SCANE: JAN 9 '07 – 22.9 ug/L |   |                                      |        |      |    |
| <b>Temephos</b>   | Jan 9 '07                                   | <10.0                                | <10.0  | ug/L | No |
| <b>Terbufos</b>   | Jan 9 '07                                   | <0.70                                | <0.70  | ug/L | No |
| <b>Tetrachloroethylene</b>  | Jan 9 '07                                   | <0.1                                 | <0.1   | ug/L | No |
| <b>2,3,4,6-Tetrachlorophenol</b>  | Jan 9 '07                                   | <0.50                                | <0.50  | ug/L | No |
| <b>Triallate</b>  | Jan 9 '07                                   | <1.0                                 | <1.0   | ug/L | No |
| <b>Trichloroethylene</b>  | Jan 9 '07                                   | <0.1                                 | <0.1   | ug/L | No |
| <b>2,4,6-Trichlorophenol</b>  | Jan 9 '07                                   | <0.50                                | <0.50  | ug/L | No |
| <b>2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)</b>                           | Jan 9 '07                                   | <1.0                                 | <1.0   | ug/L | No |
| <b>Trifluralin</b>  | Jan 9 '07                                   | <1.0                                 | <1.0   | ug/L | No |
| <b>Vinyl Chloride</b>   | Jan 9 '07                                   | <0.2                                 | <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.**

| <b>Parameter</b> | <b>Result Value Erie</b> | <b>Result Value Scane</b> | <b>Unit of Measure</b> | <b>Date of Sample</b> |
|------------------|--------------------------|---------------------------|------------------------|-----------------------|
| Fluoride         | 1.7                      | 1.6                       | mg/L                   | Jan 7                 |
| Fluoride         | 1.7                      | 1.68                      | mg/L                   | July 16               |