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| <b>Drinking-Water System Number:</b>   | 220 008 113   |
| <b>Drinking-Water System Name:</b>     | Camborne Water Supply System                              |
| <b>Drinking-Water System Owner:</b>    | The Corporation of the Township of Hamilton               |
| <b>Drinking-Water System Category:</b> | Small Municipal Residential –Class 1 Water Treatment      |
| <b>Period being reported:</b>          | January 1 <sup>st</sup> –December 31 <sup>st</sup> , 2018 |

|  |   |
|--|---|
| <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>8285 Majestic Hills Drive<br/>Cobourg, ON.<br/>K9A 4J7</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> |
|--|---|

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**

Source water is two (2) drilled wells on-site near the treatment plant. The treatment plant building houses the treatment and pumping equipment, chemical feed systems, a filtration system for iron and turbidity removal/control, high lift pumps, pressure tanks, instrumentation and control equipment, a SCADA system, laboratory, and associated electrical controls and appurtenances. A filter waste tank and standby diesel generator are also located on-site beside the treatment plant.

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

12% sodium hypochlorite  
Sodium thiosulphate

**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**

**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                  | Corrective Action              | Corrective Action Date |
|----------------------------|---------------|-------------------------|--------------------------------|------------------------|
| 07/29/18<br>AWQI<br>141159 | communication | Not able to get reports | Retrieved data through Eramosa | 08/01/18               |

**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          | 26                | 0 - 0  | 0 - 1   |                       |                                      |
| Treated      |                   |  |   |                       |                                      |
| Distribution | 51                | 0 - 0  | 0 - 0   | 51                    | 0 - 3                                |



Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

|          |                               |   |  |
|----------|-------------------------------|---|--|
|          | <b>Number of Grab Samples</b> | <b>Range of Results (min #)-(max #)</b> | <i><b>NOTE:</b> For continuous monitors use 8760 as the number of samples.</i> |
| Chlorine | <b>8760</b>                   | <b>.49 – 2.45 mg/l</b>                  |  |

**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 |
|----------------------------------|--------------------------|--------------|-------------|-----------------|
| <b>08/18/16 Licence #139-103</b> | <b>Suspended solids</b>  | 03/21/18     | <b>6.33</b> | mg/l            |
|                                  |                          | 06/09/18     | <b>6.66</b> |                 |
|                                  |                          | 09/30/18     | <b>3.00</b> |                 |
|                                  |                          | 12/11/18     | <b>5.66</b> |                 |
| <b>08/18/16 Licence #139-103</b> | <b>Chlorine residual</b> | 03/21/18     | <b>.18</b>  | mg/l            |
|                                  |                          | 06/09/18     | <b>.26</b>  |                 |
|                                  |                          | 09/30/18     | <b>.25</b>  |                 |
|                                  |                          | 12/11/18     | <b>.01</b>  |                 |

**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  | 06/07/16    | .02<MDL      | ug/l            | no         |
| Arsenic   | “           | .7           | “               | “          |
| Barium    | “           | 117          | “               | “          |
| Boron     | “           | 12           | “               | “          |
| Cadmium   | “           | .005         | “               | “          |
| Chromium  | 06/07/16    | .34          | ug/l            | no         |
| *Lead     | NA          | NA           | “               | “          |
| Mercury   | 06/07/16    | .01<MDL      | “               | “          |
| Selenium  | 06/07/16    | 1<MDL        | “               | “          |
| Sodium    | 06/05/17    | 8.01         | mg/l            | “          |
| Uranium   | 06/07/16    | .276         | ug/l            | “          |
| Fluoride  | 06/05/17    | .15          | mg/l            | “          |
| Nitrite   | 03/19/18    | .003<MDL     | mg/l            | “          |
|           | 06/12/18    | .003<MDL     |                 |            |
|           | 09/10/18    | .003<MDL     |                 |            |
|           | 12/10/18    | .003<MDL     |                 |            |
| Nitrate   | 03/19/18    | .006<MDL     | mg/l            | “          |
|           | 06/12/18    | .006<MDL     |                 |            |
|           | 09/10/18    | .006<MDL     |                 |            |
|           | 12/10/18    | .006<MDL     |                 |            |

\*only for drinking water systems testing under Schedule 15.2



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

not applicable

Lead sampled according to Schedule D of Municipal Drinking Water Licence 139-103

| Location Type | Date     | Sample Location | pH  | Alkalinity | Lead |
|---------------|----------|-----------------|-----|------------|------|
| Distribution  | 03/26/18 | Albert'sAlley   | 7.3 | 190        |      |
| Distribution  | 10/01/18 | Albert'sAlley   | 7.6 | 191        |      |

**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                                   | 06/07/16                                     | .02<MDL      | ug/l            | no         |
| Atrazine                                   | "  | .01<MDL      | "               | "          |
| Atrazine + N-dealkylated metabolites       | "  | .01<MDL      | "               | "          |
| Desethyl atrazine                          | "  | .01<MDL      | "               | "          |
| Azinphos-methyl                            | "  | .05<MDL      | "               | "          |
| Benzene                                    | "  | .32<MDL      | "               | "          |
| Benzo(a)pyrene                             | "  | .004<MDL     | "               | "          |
| Bromoxynil                                 | "  | .33<MDL      | "               | "          |
| Carbaryl                                   | "  | .05<MDL      | "               | "          |
| Carbofuran                                 | "  | .01<MDL      | "               | "          |
| Carbon Tetrachloride                       | "  | .16<MDL      | "               | "          |
| Chlorpyrifos                               | "  | .02<MDL      | "               | "          |
| Diazinon                                   | "  | .02<MDL      | "               | "          |
| Dicamba                                    | "  | .20<MDL      | "               | "          |
| 1,2-Dichlorobenzene                        | "  | .41<MDL      | "               | "          |
| 1,4-Dichlorobenzene                        | "  | .36<MDL      | "               | "          |
| 1,2-Dichloroethane                         | "  | .35<MDL      | "               | "          |
| 1,1-Dichloroethylene (vinylidene chloride) | "  | .33<MDL      | "               | "          |
| Dichloromethane                            | "  | .35<MDL      | "               | "          |
| 2-4 Dichlorophenol                         | "  | .15<MDL      | "               | "          |
| 2,4-Dichlorophenoxy acetic acid (2,4-D)    | "  | .19<MDL      | "               | "          |
| Diclofop-methyl                            | "  | .40<MDL      | "               | "          |
| Dimethoate                                 | "  | .03<MDL      | "               | "          |
| Diquat                                     | "  | 1<MDL        | "               | "          |
| Diuron                                     | "  | .03<MDL      | "               | "          |
| Glyphosate                                 | "  | 1<MDL        | "               | "          |
| Haloacetic Acid (HAA)                      | 03/26/18<br>06/12/18<br>09/10/18<br>12/12/18 | 5.3<MDL      | "               | "          |
| Malathion                                  | 06/07/16                                     | .02<MDL      | "               | "          |



|   |   |               |   |   |
|---|---|---------------|---|---|
| Metolachlor                               | “   | .01<MDL       | “ | “ |
| Metribuzin                                | “   | .02<MDL       | “ | “ |
| Monochlorobenzene                         | “   | .3<MDL        | “ | “ |
| MCPA                                      | “   | .00012<MDL    | “ | “ |
| Paraquat                                  | “   | 1<MDL         | “ | “ |
| Pentachlorophenol                         | “   | .15<MDL       | “ | “ |
| Phorate                                   | “   | .01<MDL       | “ | “ |
| Picloram                                  | “   | 1<MDL         | “ | “ |
| Polychlorinated Biphenyls(PCB)            | “   | .04<MDL       | “ | “ |
| Prometryne                                | “   | .03<MDL       | “ | “ |
| Simazine                                  | “   | .01<MDL       | “ | “ |
| THM<br>(NOTE: show latest annual average) | 03/09/16,<br>06/07/16,<br>09/17/16,<br>12/15/16 | 9.82<br>(RAA) | “ | “ |
| Terbufos                                  | 06/07/16  | .01<MDL       | “ | “ |
| Tetrachloroethylene                       | “   | .35<MDL       | “ | “ |
| 2,3,4,6-Tetrachlorophenol                 | “   | .20<MDL       | “ | “ |
| Triallate                                 | “   | .01<MDL       | “ | “ |
| Trichloroethylene                         | “   | .44<MDL       | “ | “ |
| 2,4,6-Trichlorophenol                     | “   | .25<MDL       | “ | “ |
| Trifluralin                               | “   | .02<MDL       | “ | “ |
| Vinyl Chloride                            | “   | .17<MDL       | “ | “ |