



**OPTIONAL ANNUAL REPORT TEMPLATE**

|                                        |                                             |
|----------------------------------------|---------------------------------------------|
| <b>Drinking-Water System Number:</b>   | 220001520                                   |
| <b>Drinking-Water System Name:</b>     | <i>South Huron Distribution System</i>      |
| <b>Drinking-Water System Owner:</b>    | <i>Municipality of South Huron</i>          |
| <b>Drinking-Water System Category:</b> | <i>Large Residential</i>                    |
| <b>Period being reported:</b>          | <i>January 1, 2024 to December 31, 2024</i> |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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 [ <input checked="" type="checkbox"/> ]</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [ <input checked="" type="checkbox"/> ] 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; margin-top: 10px;"> <p><i>Office</i></p> <p><i>Internet</i></p> <p><i>Library</i></p> </div> | <p><b><u>Complete for all other Categories.</u></b></p> <p>Number of Designated Facilities served: <input style="width: 50px;" 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: 50px;" 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> |
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**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 [ ] NA [  ]



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 (Social Media, Facebook, Twitter)\_\_\_\_\_

**Describe your Drinking-Water System**

*Large Municipal Residential Distribution Class III  
Surface water supplied from Lake Huron Primary Water Supply System (LHPWSS)*

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

*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**

**2024 Capital Projects and Major Repairs**

| <b>Project Name</b>                                                                                           | <b>Project Cost</b> |
|---------------------------------------------------------------------------------------------------------------|---------------------|
| Main Street North Reconstruction Watermain Replacement (Exeter) - Walper Street to Ausable River              | \$ 729,120          |
| William Street Reconstruction Watermain Replacement (Exeter) - Anne Street to Sanders Street                  | \$ 14,012           |
| Victoria Street East Reconstruction Watermain Replacement (Exeter) - Main Street to East End (Engineering)    | \$ 15,000           |
| Gidley Street East Reconstruction Watermain Replacement (Exeter) - Main Street to Andrew Street (Engineering) | \$ 4,741            |
| Hardy Street Reconstruction Watermain Replacement (Exeter) - Senior Street to East End (Engineering)          | \$ 5,267            |
| Alexander Street West Reconstruction Watermain Replacement - McConnell Street to Francis Street (Engineering) | \$ 5,066            |
| McConnell Street Reconstruction Watermain Replacement - Alexander Street to South End (Engineering)           | \$ 6,674            |

|                                                                                                  |                     |
|--------------------------------------------------------------------------------------------------|---------------------|
| Baldwin Street Reconstruction Watermain Replacement - Main Street to Andrew Street (Engineering) | \$ 4,825            |
| Automated Meter Reading Upgrade                                                                  | \$ 250,000          |
| SCADA System Upgrades                                                                            | \$ 128,838          |
| Main Street Reconstruction (Dashwood) - Centre Street to West Limits                             | \$ 611,409          |
| Recoat the Interior of the Exeter Water Tower                                                    | \$ 826,515          |
| Blackbush Line Watermain Replacement - South of Huron Street to Crediton Road                    | \$ 800,851          |
| Booster Pump Repairs                                                                             | \$ 8,534            |
| Chlorine Monitoring Equipment Repairs and Upgrades                                               | \$ 33,944           |
| Pressure Transmitter Monitoring Repairs                                                          | 3,519               |
| <b>Total</b>                                                                                     | <b>\$ 3,448,315</b> |

**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 |
|---------------|----------------|--------|-----------------|-------------------|------------------------|
| 10/17/2024    | Total Coliform | 1      | Cfu/100ml       | Resample          | 10/21/2024             |

**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          | N/A               |                                                  |                                                 |                       |                                      |
| Treated      | N/A               |                                                  |                                                 |                       |                                      |
| Distribution | 533               | 0                                                | 0-1                                             | 212                   | <10 – 1060ABH                        |

**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                                   | N/A                    |                                  |                 |
| Chlorine                                    | 8760                   | 0.21 – 3.10                      | mg/L Free       |
| Fluoride (If the DWS provides fluoridation) | 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 |
|---------------------------------|-----------|--------------|--------|-----------------|
|                                 |           |              |        |                 |
|                                 |           |              |        |                 |

**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  |             |              |                 |            |
| Arsenic   |             |              |                 |            |
| Barium    |             |              |                 |            |
| Boron     |             |              |                 |            |
| Cadmium   |             |              |                 |            |
| Chromium  |             |              |                 |            |
| *Lead     |             |              |                 |            |
| Mercury   |             |              |                 |            |
| Selenium  |             |              |                 |            |
| Sodium    |             |              |                 |            |
| Uranium   |             |              |                 |            |
| Fluoride  |             |              |                 |            |
| Nitrite   |             |              |                 |            |
| Nitrate   |             |              |                 |            |

\*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      | 0                 | 0                                      | ug/L            | 0                     |
| Distribution  | 0                 | 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                             |             |              |                 |            |
| Aldicarb                             |             |              |                 |            |
| Aldrin + Dieldrin                    |             |              |                 |            |
| Atrazine + N-dealkylated metabolites |             |              |                 |            |
| Azinphos-methyl                      |             |              |                 |            |



|                                                     |                 |       |      |  |
|-----------------------------------------------------|-----------------|-------|------|--|
| Bendiocarb                                          |                 |       |      |  |
| Benzene                                             |                 |       |      |  |
| Benzo(a)pyrene                                      |                 |       |      |  |
| Bromoxynil                                          |                 |       |      |  |
| Carbaryl                                            |                 |       |      |  |
| Carbofuran                                          |                 |       |      |  |
| Carbon Tetrachloride                                |                 |       |      |  |
| Chlordane (Total)                                   |                 |       |      |  |
| Chlorpyrifos                                        |                 |       |      |  |
| Cyanazine                                           |                 |       |      |  |
| Diazinon                                            |                 |       |      |  |
| Dicamba                                             |                 |       |      |  |
| 1,2-Dichlorobenzene                                 |                 |       |      |  |
| 1,4-Dichlorobenzene                                 |                 |       |      |  |
| Dichlorodiphenyltrichloroethane (DDT) + metabolites |                 |       |      |  |
| 1,2-Dichloroethane                                  |                 |       |      |  |
| 1,1-Dichloroethylene (vinylidene chloride)          |                 |       |      |  |
| Dichloromethane                                     |                 |       |      |  |
| 2-4 Dichlorophenol                                  |                 |       |      |  |
| 2,4-Dichlorophenoxy acetic acid (2,4-D)             |                 |       |      |  |
| Diclofop-methyl                                     |                 |       |      |  |
| Dimethoate                                          |                 |       |      |  |
| Dinoseb                                             |                 |       |      |  |
| Diquat                                              |                 |       |      |  |
| Diuron                                              |                 |       |      |  |
| Glyphosate                                          |                 |       |      |  |
| Heptachlor + Heptachlor Epoxide                     |                 |       |      |  |
| Lindane (Total)                                     |                 |       |      |  |
| Malathion                                           |                 |       |      |  |
| Methoxychlor                                        |                 |       |      |  |
| Metolachlor                                         |                 |       |      |  |
| Metribuzin                                          |                 |       |      |  |
| Monochlorobenzene                                   |                 |       |      |  |
| Paraquat                                            |                 |       |      |  |
| Parathion                                           |                 |       |      |  |
| Pentachlorophenol                                   |                 |       |      |  |
| Phorate                                             |                 |       |      |  |
| Picloram                                            |                 |       |      |  |
| Polychlorinated Biphenyls(PCB)                      |                 |       |      |  |
| Prometryne                                          |                 |       |      |  |
| Simazine                                            |                 |       |      |  |
| THM<br>(NOTE: latest annual average)                | <i>SEE NOTE</i> | 34.25 | ug/L |  |



|                                                                       |                     |             |             |  |
|-----------------------------------------------------------------------|---------------------|-------------|-------------|--|
| <b>Total Haloacetic Acids (HAA5)</b><br>(NOTE: latest annual average) | <i>SEE<br/>NOTE</i> | <i>5.45</i> | <i>ug/L</i> |  |
| <b>Temephos</b>                                                       |                     |             |             |  |
| <b>Terbufos</b>                                                       |                     |             |             |  |
| <b>Tetrachloroethylene</b>                                            |                     |             |             |  |
| <b>2,3,4,6-Tetrachlorophenol</b>                                      |                     |             |             |  |
| <b>Triallate</b>                                                      |                     |             |             |  |
| <b>Trichloroethylene</b>                                              |                     |             |             |  |
| <b>2,4,6-Trichlorophenol</b>                                          |                     |             |             |  |
| <b>2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)</b>                   |                     |             |             |  |
| <b>Trifluralin</b>                                                    |                     |             |             |  |
| <b>Vinyl Chloride</b>                                                 |                     |             |             |  |

**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 |
|-----------|--------------|-----------------|----------------|
|           |              |                 |                |
|           |              |                 |                |

|              |                 |                    |                    |
|--------------|-----------------|--------------------|--------------------|
|              |                 | <u><i>THM</i></u>  | <u><i>HAA5</i></u> |
| <i>Note:</i> | <i>FEB 20 -</i> | <i>31.0</i>        | <i>5.3</i>         |
|              | <i>MAY 21 -</i> | <i>35.0</i>        | <i>5.9</i>         |
|              | <i>AUG 20 -</i> | <i>40.0</i>        | <i>5.3</i>         |
|              | <i>NOV 12 -</i> | <u><i>31.0</i></u> | <u><i>5.3</i></u>  |
|              |                 | <i>34.25</i>       | <i>5.45</i>        |