



**GEORGINA**

**Town of Georgina**

**2025 Annual Water Quality  
Summary Report**

**Regulatory Reporting for  
Municipal Drinking Water Systems**

Drinking-Water System Number:

260062686

Drinking-Water System Name:

Keswick-Sutton Distribution System

Drinking-Water System Owner:

Town of Georgina

Drinking-Water System Category:

Large Municipal Residential Distribution

Period being reported:

January 1, 2025 - December 31, 2025

**Does your Drinking-Water System serve more than 10,000 people?**

Yes [x]      No [ ]

**Is your annual report available to the public at no charge on a web site on the Internet?**

Yes [x]      No [ ]

**Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection:**

- Civic Centre, 26557 Civic Centre Road (ground floor)
- Water and Wastewater Operations Centre, 26817 Civic Centre Road (office area)
- Library, Keswick Branch, 90 Wexford Drive (main desk)
- Sutton Leisure Pool, 5279 Black River Road (main desk)
- Multi-Use Recreation Complex, 261 Garett Styles Drive (main desk)

**1. List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:** N/A

**2. 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 [X] No [ ]

**3. Indicate how you notified system users that your annual report is available, and is free of charge.**

[X] Public access/notice via the web  
 [X] Public access/notice via Government Office  
 [X] Public access/notice via Public Request  
 [X] Public access/notice via a Public Library

**4. Describe your Drinking-Water System**

The Keswick-Sutton Distribution System (The System) is owned and operated by the Corporation of the Town of Georgina (The Town) and serves a population of approximately 41,325. The Town is responsible for operating and maintaining watermains, valves, two booster pumping stations, hydrants, meters, and service connections.

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

The System receives treated surface water from the Georgina and Keswick Water Treatment Plants (WTP). The Georgina WTP is a surface water plant which uses membrane microfiltration technology, UV and chlorine disinfection. The Keswick WTP is a surface water plant which uses chemically assisted filtration and chlorine disinfection. The Keswick WTP and the Georgina WTP are operated and maintained by the Regional Municipality of York (The Region) and are inspected separately from the Keswick-Sutton Distribution System.

**6. Please provide a brief description and a breakdown of monetary expenses incurred**

- Repair and Maintenance of the distribution System: \$1,884,580.88
- Replacement of Water Mains/Services: \$1,352,900 (Capital Replacements Projects)

**7. 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 |
|---------------|-----------------------|--------|-----------------|--|------------------------|
| 2025/03/17    | Observational Adverse | N/A    | N/A             | Flushed water main and collected one sample at the source of potential AWQI. Notified MECP and YRPH. Test results received for this location passed Ontario Drinking Water Quality Standards.                        | 2025/03/17             |
| 2025/10/08    | Total Coliforms       | P      | PA              | Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards. | 2025/10/10             |
| 2025/12/08    | Chlorine Residual     | 0.02   | Mg/L            | Flushed watermain and resampled until adequate chlorine residual was achieved. Notified MECP and YRPH.   | 2025/12/08             |
| 2025/12/09    | Chlorine Residual     | 0.03   | Mg/L            | Flushed watermain and resampled until adequate chlorine residual was achieved. Notified MECP and YRPH.   | 2025/12/09             |

- \* - Multiple samples were collected to fulfill requirements of corrective action
- P – present
- P/A – presence/absence
- CFU – colony forming unit
- MG/L – milligrams per liter

**8. 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  | N/A   | N/A                   | N/A                                  |
| Treated      |                   | N/A  | N/A   | N/A                   | N/A                                  |
| Distribution | 823               | Absent   | Absent  | 423                   | 0 – 670                              |

**9. 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 |
|--|------------------------|----------------------------------|-----------------|
| <b>Turbidity</b>                                   | N/A                    | N/A                              | N/A             |
| <b>Chlorine</b>                                    | 4983                   | 0.02 – 2.17                      | MG/L            |
| <b>Fluoride</b> (If the DWS provides fluoridation) | N/A                    | N/A                              | N/A             |

**10. 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 |
|---------------------|-------------------|--|-----------------|-----------------------|
| <b>Plumbing</b>     | N/A               | N/A                                    | N/A             | N/A                   |
| <b>Distribution</b> | N/A               | N/A                                    | N/A             | N/A                   |

The Town is exempt from lead testing within the residential plumbing systems, however, must still sample for Lead within the distribution system on a rolling three-year cycle. In 2025, the Town was in the first year of its three-year cycle, during which it was required to collect samples for Alkalinity and PH. A total of eight (8) samples were taken for Alkalinity and PH. Since 2007 the Town of Georgina Lead results were below the regulatory limit of 0.010 mg/L. The Town will continue to follow the three-year cycle schedule.

The table below outlines the rolling three (3) year “reduced” Lead sampling schedule.

| Sampling Year | 1 <sup>st</sup> round sampling | Date of 1 <sup>st</sup> round sampling | # of Samples per period | 2 <sup>nd</sup> round sampling | Date of 2 <sup>nd</sup> round sampling | # of Samples per period | Sampling requirements    |
|---------------|--------------------------------|--|-------------------------|--------------------------------|--|-------------------------|--------------------------|
| Y1            | Dec 15, 2024 – Apr 15, 2025    | March 2025                             | 4 Alkalinity            | September 2025                 | Jun 15, 2025 – Oct 15, 2025            | 4 Alkalinity            | Alkalinity and pH        |
| Y2            | Dec 15, 2025 – Apr 15, 2026    | March 2026                             | 4 Alkalinity            | September 2026                 | Jun 15, 2026 – Oct 15, 2026            | 4 Alkalinity            | Alkalinity and pH        |
| Y3            | Dec 15, 2026 – Apr 15, 2027    | March 2027                             | 4 Alkalinity 4 Lead     | September 2027                 | Jun 15, 2027 – Oct 15, 2027            | 4 Alkalinity 4 Lead     | Alkalinity, pH, and Lead |

The table below summarizes the sample results, which demonstrate that the results are all within compliance limits.

| Sample Date   | Number of Samples | Lead (mg/L) Min. – Max. | Alkalinity CaCO <sub>3</sub> (mg/L) | pH Min. – Max.  |
|---|-------------------|-------------------------|-------------------------------------|-----------------|
| March 05, 2025  | 4 (Alkalinity)    | n/a                     | 114 –118                            | 7.30 – 7.90     |
| Sept 10, 2025   | 4 (Alkalinity)    | n/a                     | 96.5 – 111                          | 6.80 – 7.50     |
| MAC – (Maximum Allowable Concentration)<br>OG – (Operational Guideline) |                   | MAC<br>0.01mg/L         | OG<br>500mg/L                       | OG<br>6.5 – 8.5 |

**11. Summary of testing pursuant to Schedule 13 of O. Reg. 170/03 and sampling carried out in accordance with the requirement of approval.**

| Parameter   | Sample Date   | Result Value (RAA) | Unit of Measure | Exceedance |
|---|---|--------------------|-----------------|------------|
| THM (NOTE: show latest running annual average)      | February 3, 2025; May 5, 2025; July 9, 2025, November 3, 2025 | 52.65              | UG/L            | 0          |
| HAA (NOTE: show latest running annual average)      | February 3, 2025; May 5, 2025; July 9, 2025, November 3, 2025 | 25.25              | UG/L            | 0          |
| NITRATES (NOTE: show latest running annual average) | February 3, 2025; May 5, 2025; July 9, 2025, November 3, 2025 | <0.50              | MG/L            | 0          |
| NITRITES (NOTE: show latest running annual average) | February 3, 2025; May 5, 2025; July 9, 2025, November 3, 2025 | <0.05              | MG/L            | 0          |
| Sodium  | N/A   | N/A                | N/A             | N/A        |

**12. Summary of Inorganic (Schedule 23 of O. Reg. 170/03) parameters tested during this reporting period or the most recent sample results.**

| Parameter | Sample Date | Result Value | Unit of Measure | Exceedance  |
|-----------|-------------|--------------|-----------------|---|
| Antimony  |             |              |                 | *Refer to Regional Municipality of York Annual Report |
| Arsenic   |             |              |                 |   |
| Barium    |             |              |                 |   |
| Boron     |             |              |                 |   |
| Cadmium   |             |              |                 |   |
| Chromium  |             |              |                 |   |
| Mercury   |             |              |                 |   |
| Selenium  |             |              |                 |   |
| Uranium   |             |              |                 |   |

O. Reg. 170/03 requires these parameters to be tested at the point where water enters the distribution system. The Town of Georgina relies on the Region of York to undertake this sampling and testing when the water leaves the treatment plant.

**13. Summary of Organic (Schedule 24 of O. Reg. 170/03) parameters sampled during this reporting period or the most recent sample results.**

| Parameter                            | Sample Date | Result Value | Unit of Measure | Exceedance  |
|--------------------------------------|-------------|--------------|-----------------|---|
| Alachlor                             |             |              |                 | *Refer to Regional Municipality of York Annual Report |
| Aldicarb                             |             |              |                 |   |
| Aldrin + Dieldrin                    |             |              |                 |   |
| Atrazine + N-dealkylated metabolites |             |              |                 |   |
| Azinphos-methyl                      |             |              |                 |   |
| Bendiocarb                           |             |              |                 |   |
| Benzene                              |             |              |                 |   |
| Benzo(a)pyrene                       |             |              |                 |   |
| Bromoxynil                           |             |              |                 |   |
| Carbaryl                             |             |              |                 |   |
| Carbofuran                           |             |              |                 |   |
| Carbon Tetrachloride                 |             |              |                 |   |
| Chlordane (Total)                    |             |              |                 |   |

O. Reg. 170/03 requires these parameters to be tested at the point where water enters the distribution system. The Town of Georgina relies on the Region of York to undertake this sampling and testing when the water leaves the treatment plant.

|   |
|---|
| Chlorpyrifos  |
| Cyanazine   |
| Diazinon  |
| Dicamba   |
| 1,2-Dichlorobenzene                                 |
| 1,4-Dichlorobenzene                                 |
| Dichlorodiphenyltrichloroethane (DDT) + metabolites |
| 1,2-Dichloroethane                                  |
| 1,1-Dichloroethylene<br>(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: see table below)                      |
| Temephos  |
| Terbufos  |
| Tetrachloroethylene                                 |
| 2,3,4,6-Tetrachlorophenol                           |
| Triallate   |
| Trichloroethylene                                   |
| 2,4,6-Trichlorophenol                               |
| 2,4,5-Trichlorophenoxy acetic acid (2,4,5-T)        |
| Trifluralin   |
| Vinyl Chloride                                      |

**14. Organic and inorganic parameter(s) that exceeded half the standard prescribed in Schedule 2 of O. Reg. 169/03 Ontario Drinking Water Quality Standards**

| Test   | Date of Samples  | Running Annual Average<br>( $\mu\text{g/L}$ ) | Value exceeded over half of<br>the regulatory standard |
|--|------------------|---|--|
| <b>Trihalomethanes<br/>(THMs)</b><br>(ODWS Standard<br>100 $\mu\text{g/L}$ ) | November 3, 2025 | 52.65   | Yes  |