

**2025 ANNUAL SUMMARY REPORT FOR
MUNICIPAL COUNCIL**

TOWN OF GEORGINA

DRINKING WATER SYSTEM NO.260062686

*Schedule 22; Summary Reports for Municipalities, O. Reg. 170/03 – Drinking Water
Systems*



Reporting Requirements under the Ontario Safe Drinking Water Act, 2002

This Annual Summary Report for Municipal Council is to satisfy the annual reporting requirements of Ontario Regulation 170/03 – Drinking Water System of the Safe Drinking Water Act (SDWA), 2002, section 11 – Annual Reports, and schedule 22 – Summary Reports for Municipalities.

Ontario Safe Drinking Water Act, 2002 (SDWA, 2002) protects human health and the surrounding environment through the control and regulation of drinking water systems and drinking water testing. The SDWA includes all regulations relating to the treatment and distribution of drinking water; accreditation of operating authorities, municipal drinking water systems, drinking water testing, inspections, compliance and enforcement, and standard of care.

The Town of Georgina is required to maintain compliance with all applicable SDWA, 2002 requirements continually and effectively address any identified incidents of non-compliance.

Schedule 22 Summary Report, and its associated attachments including Section 11 Annual Report contain information pertaining to the overall performance of the Town of Georgina's Drinking Water System for the calendar year, and details from the Annual Ministry of Environment, Conservation and Parks (MECP) Inspection of the Drinking Water System. The Town of Georgina Owners (Mayor/Council), Top Management, Operating Authorities and the public are provided up-to-date information on the Drinking Water System, compliance with applicable regulatory requirements and its conformance with the industry's Best Management Practices (BMP).

Background

The Town of Georgina owns and operates the municipal Water Distribution System, and the Regional Municipality of York (York Region) provides the treatment, supply, and storage of drinking water.

Section 19 of the Safe Drinking Water Act: Standard of Care, requires every person who on behalf of the municipality oversees the accredited operating authority of the system or exercises decision-making authority over the system, to act honestly, competently, and with integrity while exercising a level of care, diligence, and skills to protect the health and safety of the users of the Town's drinking water system. This includes the Mayor, Municipal Councilors, Management, and Ministry of Environment, Conservation and Parks (MECP) Certified Operators.

Schedule 22 of O. Reg. 170/03, under the Safe Drinking Water Act, requires owners of municipal drinking water systems to prepare annual reports describing the operation of the drinking water system and the results of testing performed that ensures residents are provided with safe drinking water. This report covers the period from January 1, 2024, to December 31, 2024.

Drinking Water System

The source water for the Keswick-Sutton Water Distribution System comes from Lake Simcoe. York Region owns and operates two water treatment plants (WTP): the Keswick Water Treatment Plant, located in Keswick, Ontario and the Georgina Water Treatment Plant, located in Sutton, Ontario.

York Region owns and operates two (2) Water Treatment Plants and four (4) storage/rechlorination facilities for the Town of Georgina. Water is taken from Lake Simcoe at both plants and undergoes a complete treatment process. Georgina WTP uses membrane filtration technology, granular activated carbon, UV, and chlorine disinfection while the Keswick WTP uses chemically assisted filtration, granular activated carbon, and chlorine disinfection before being supplied to the Town's Water Distribution System. York Region carries out extensive testing at each plant and summarizes the results of these tests in an annual report. Copies of York Region's annual report may be obtained by contacting York Region at 1-877-464-9675 or accessing the Region's website, <https://www.york.ca/environment/water-and-wastewater/drinking-water-quality-and-monitoring>. The reports describe the treatment and chemicals used in the process in more detail. A copy of the Region's report may also be obtained at the Town of Georgina, Civic Centre located at 26557 Civic Centre Road, Keswick, Ontario.

The Keswick-Sutton Water Distribution System is classified by the Ministry of Environment, Conservation and Parks (MECP) as a Class 2 Water Distribution System - "Large Municipal Residential System", and is owned and operated by the Town of Georgina. Ontario Regulation 170/03, Drinking Water Systems regulates municipal drinking water systems, and acts as the framework for regulation for drinking water systems of all sizes.

The Town of Georgina is responsible for the operation and maintenance of the Water Distribution System, including underground infrastructure valves and hydrants. The Town serves a population of approximately 41,325 and the distribution system consists of 249.6 km of watermain (both municipal and unassumed), 14,250 water connections (active accounts), 1516 fire hydrants (not including private hydrants), 1742 mainline valves, 1513 property (branch) valves, 2 pressure reducing valves (PRV), 2 booster stations, and 30 air valves.

Annual Water Quality Summary Report(s) are available to the public at:

- Town of Georgina website: <https://www.georgina.ca/living-here/water-and-wastewater/drinking-water-reports>
- Town of Georgina Civic Centre, 26817 Civic Centre Road, Keswick, ON
- Town of Georgina Water/Wastewater Operations Facility (Operations)
- Library, Keswick Branch, 90 Wexford Drive (main desk)
- Georgina Leisure Pool, 5279 Black River Road, Sutton (main desk)

- Multi-Use Recreation Complex (MURC), 261 Garrett Styles Drive, Keswick (main desk)

Municipal Drinking Water License and Drinking Water Works Permit

- Municipal Drinking Water License (MDWL) number: 119-101 (Issue number 3)
- Drinking Water Works Permit (DWWP) number: 119-201 (Issue number 3)

The Town's MDWL and DWWP outline specific system requirements in addition to those set by provincial regulations. These documents detail the operational, maintenance, and monitoring conditions for the drinking water system, among other regulatory obligations. Both the MDWL and DWWP are integral components of the provincial drinking water approval framework and must be fully complied with at all times. The MDWL is valid for a five-year term and must be renewed in accordance with the MECP regulations. The DWWP is also renewed on the same five-year cycle as part of the MDWL renewal process. The Town is required to consistently adhere to all conditions of the MDWL and DWWP and promptly address any instances of non-compliance.

MDWL expiry date: May 23, 2026 – the renewal application for MDWL was submitted on November 4, 2025 and included the following:

- Current Water Distribution System Map
- QMS Operational Plan (DWQMS)
- System description
- Certification of Accreditation for DWQMS
- Financial Plan (DWQMS)
- Drinking Water Works Permit (DWWP)
- Municipal Drinking Water Licence (MDWL)

Ontario Regulation 453/07. Financial Plans (SDWA, 2002)

The Financial Plans Ontario Regulation 435/07 requires all owners of municipal drinking water systems to prepare a financial plan that details at a minimal six (6) year projected financial plan for the drinking water system. For each year the financial plan must include, but is not limited to, details of the proposed or projected financial operations of the drinking water system itemized by revenue, water rates, user charges and other revenues. The Owner of the drinking water system must make the financial plan available to members of the public through publication – The Town's financial plan can be found her: <https://www.georgina.ca/sites/default/files/2024-10/attachment-1-town-of-georgina-water-financial-plan-aug-2024.pdf>

As part of the process identified within Ontario Regulation 435/07, Financial Plans must be formally approved and acknowledged by the Owner of the drinking water system through resolution of the Municipal Council. The regulation is associated with the Operating Authorities corresponding with the Municipal Drinking Water License (MDWL) and must be updated in accordance with O. Reg. 453/07 Financial Plans requirements as part of the provincial water renewal process. The Town is required to maintain compliance with all applicable regulation requirements at all times and adequately address any identified incidents of non-compliance.

Council received and approved the Water Financial Plan and Water and Wastewater Rate Study on September 11, 2024 (report # DCAO-2024-0013).

Drinking Water Quality Management Standard (DWQMS)

The *Drinking Water Quality Management Standard (DWQMS)* sets out a framework for the operating authority and the owner of a drinking water system to develop a *Quality Management System (QMS)* that is relevant and appropriate for their respective drinking water system. The DWQMS is the approved QMS under the SDWA, 2002.

The purpose of the QMS is to establish policy and objectives, achieve those objectives as well as direct and control an organization with regards to quality. To adhere to the DWQMS requirements the Town has developed a QMS Operational Plan that is relevant to and appropriate for the Town of Georgina's water distribution system. The Town's is subject to annual internal and external audits as part of the on-going Operating Authority accreditation process. The DWQMS and associated QMS requirements are one of the components associated with the provincial drinking water system approvals framework that is applicable. The Town is required to always maintain compliance with all applicable DWQMS requirements and adequately address any identified incidents of non-conformance.

Accredited Operating Authority

Under the Safe Drinking Water Act, 2002 (SDWA), Part III, Section 13 of the regulation requires the Owner of the Drinking Water System obtain/become an Accredited Operating Authority for the Drinking Water System. The Operating Authority must establish and maintain a Quality Management System (QMS), specific to the Drinking Water Quality Management Standard (DWQMS), approved under Section 21 of the SDWA.

The Town of Georgina successfully achieved re-accreditation of its Quality Management System under the Drinking Water Quality Management Standard (DWQMS) in 2024. The accreditation remains valid for a three-year cycle, with annual surveillance audits in 2025 and 2026, and the next on-site re-accreditation audit planned for 2027. The most recent surveillance audit included a comprehensive review of the QMS, covering the Operational Plan, Standard Operating Procedures, water quality records, risk management strategies, and activities related to infrastructure maintenance, rehabilitation, renewal, and system security.

The audit confirmed that the Town's QMS is effectively implemented, properly maintained, and fully compliant with the Standard within the defined scope. Based on these findings, continued certification has been granted by the Intertek-SAI Global review team. Town staff participated in the audits, supporting the effective implementation and continuous improvement of the QMS.

3-Year Cycle	Audit Description	Date
Year-1	Surveillance Audit	2026
Year-2	On-site re-accreditation audit	2027
Year-3	Surveillance Audit	2028

On July 17, 2025, an Internal audit of the Town's Quality Management System (QMS) was conducted, resulting in three (3) Opportunities for Improvement (OFI) and zero (0) Non-Conformances (NC). On August 14, 2025, Intertek-SAI Global carried out a Surveillance Audit of the Town of Georgina's Drinking Water Quality Management System. Notably, the Surveillance Audit identified no Non-Conformances (NCs) and no Opportunities for Improvement (OFIs). Town staff have addressed the recommendations from the internal audit, and the 2025 QMS Management Review Report provides a comprehensive overview of the audit results and subsequent improvements.

2025 Adverse Water Quality Incidents (AWQI)

In 2025, Town staff reported four (4) Adverse Water Quality Incidents (AWQI) to the Ministry of the Environmental, Conservation and Parks (MECP), Spills Action Centre (SAC) and to York-Durham Public Health Unit (PHU) and took immediate corrective action in accordance with O. Reg. 170/03: Drinking Water Systems. For the reported incidents, samples were taken from the location, as well as from upstream and downstream locations. These samples were tested for microbiological contamination and chlorine residuals. The results showed no evidence of microbiological contamination, and free chlorine concentrations were within acceptable levels. Below is the list of AWQI reported in 2025 as per *Schedule 16, O. Reg. 170/03*.

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
2025/3/17	Operational Adverse	n/a	n/a	Observational adverse, 150mm PVC watermain struck by contractor completing mainline valve replacement. Watermain isolated before full exposure and flushed prior to water being directed to any user followed by chlorine residual and system sample.	2025/03/19
2025-11-8	Total Coliform	P	PA	Flush and resample (including upstream, downstream and at the AWQI location)	2025-11-08
2025-12-8	Chlorine Residual	0.02	Mg/L	Flushed watermain and resampled until adequate chlorine residual was achieved. Notified MECP and YRPH.	2025-12-08
2025-12-9	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

Ministry of the Environment, Conservation and Parks (MECP) Inspection

The Compliance and Enforcement Regulation (O. Reg. 242/05) of the SDWA requires the Ministry of Environmental, Conservation and Parks (MECP) to carry out a number of specific activities such as taking mandatory actions and conducting inspections of municipal residential drinking water systems.

Compliance with O. Reg 170/03 is determined in part through system inspections conducted annually by the MECP. The annual reporting requirements for drinking water systems are also required under Section 11 (Annual Reports) and Schedule 22 (Summary Reports for Municipalities). The Town is required to maintain compliance with all applicable O. Reg. 170/03 requirements at all times and adequately address any identified incidents of non-compliance.

Under the Safe Drinking Water Act, 2002, O. Reg. 128/04, Certification of Drinking Water System Operators and Water Quality Analysts, Water/Wastewater Operators must hold a valid operator license to operate a municipal drinking water system. O. Reg. 128/04, establishes the training and certification requirements for Operators, the corporation must ensure Water/Wastewater Operators hold the required certification level, and maintain compliance with training and certification requirements in order legally operate the drinking water system. Water/Wastewater Operators conduct operational checks, adjust, test or evaluate processes that control the effectiveness or efficiency of the subsystem, including directing the flow, pressure or quality of the water, sampling, testing and monitoring water quality within the subsystem.

Compliance with O. Reg. 128/04 is determined partially through system inspections conducted annually by the MECP. The Town is required to maintain compliance with all applicable regulation requirements at all times and adequately address any identified incidents of non-compliance.

2025 Annual MECP Inspection

The Ministry of Environment, Conservation, and Parks (MECP) conducted an announced inspection of the Keswick-Sutton Distribution System on September 17, 2025. This inspection is an annual inspection, and all data, records and standard operating procedures (SOPs) were inspected for the time period of January 28, 2025 to September 17, 2025.

The inspection evaluated the Keswick-Sutton Distribution System's compliance with the *Safe Drinking Water Act, 2002* (SDWA), as well as conformity with Ministry of the Environment, Conservation and Parks (MECP) drinking water policies, guidelines, manuals, and standard operating procedures. The assessment included a review of logbooks, operator certification and training records, water quality results, monitoring and reporting procedures, and the implementation of corrective actions. MECP conducted a comprehensive, multi-barrier inspection of the water system, focusing on source, treatment, distribution, and management system components. The inspection was carried out pursuant to Section 81 of the SDWA.

As a result of the 2025 MECP inspection, the Town of Georgina received the final report on November 18, 2025, which identified no deficiencies or recommendations and resulted in a

perfect score of 100%. This score reflects a low-risk ranking and represents exemplary performance of the drinking water system. The inspection results confirm full compliance with the *Safe Drinking Water Act*, its associated regulations, the system approval, the Drinking Water Works Permit, the Municipal Drinking Water License, and any applicable orders.

2025 MECP Inspection results:

DWS Name:	KESWICK-SUTTON DISTRIBUTION SYSTEM
DWS Number:	260062686
DWS Owner:	TOWN OF GEORGINA
Municipal Location:	GEORGINA
Regulation:	O.REG. 170/03
DWS Category:	DW Municipal Residential
Type of Inspection:	Focused
Compliance Assessment Start Date:	Sep-17-2025
Ministry Office:	York Durham District Office

Maximum Risk Rating: 263

Inspection Module	Non Compliance Risk (X out of Y)
Certification and Training	0/28
Distribution System	0/4
Logbooks	0/14
Operations Manuals	0/14
Reporting & Corrective Actions	0/67
Treatment Processes	0/85
Water Quality Monitoring	0/51
Overall - Calculated	0/263

Inspection Risk Rating: 0.00%

Final Inspection Rating: 100.00%

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Regulation:	O.REG. 170/03
DWS Category:	DW Municipal Residential
Type of Inspection:	Focused
Compliance Assessment Start Date:	Sep-17-2025
Ministry Office:	York Durham District Office

All legislative requirements were met. No detailed rating scores.

Maximum Question Rating: 263

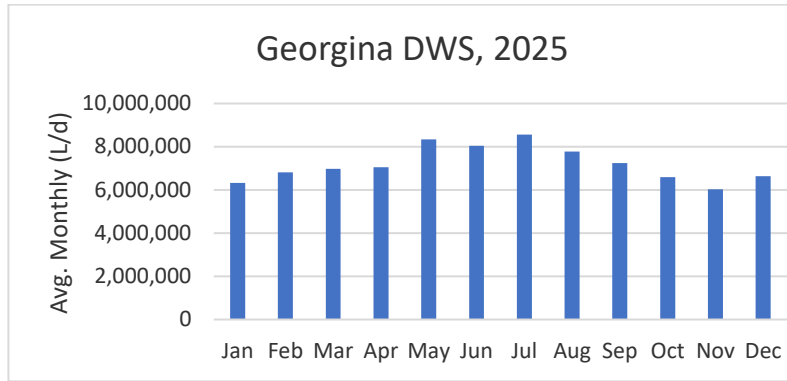
Inspection Risk Rating: 0.00%

FINAL INSPECTION RATING: 100.00%

System Monthly Average Flow

Georgina Water Treatment Plant (Operated by York Region)

2025 Water Quantity & Flow Rate Data for the Town of Georgina Water Distribution System - summary of the maximum, minimum, and average daily flows per month, and is expressed in m³ /day.

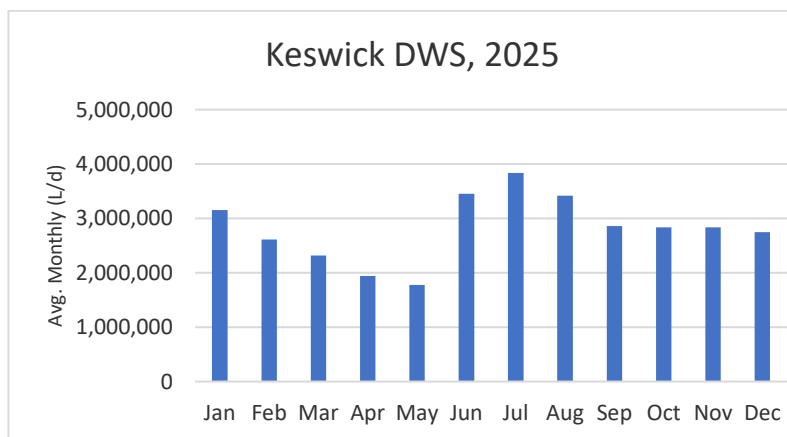


Georgina WTP (2025)	Litres
Maximum Average Daily Flow (L/day) By Month	8,552,071
Maximum Daily Flow (L/day)	13,120,200
Total Volume Georgina WTP (L/year)	2,627,630,088

*All data provided by the Regional Municipality of York

Keswick Water Treatment Plant (Operated by York Region)

2025 Water Quantity & Flow Rate Data for the Town of Georgina Keswick Water Distribution System - summary of the maximum, minimum, and average daily flows per month, and is expressed in m³ /day.



Keswick WTP (2025)	Litres
Maximum Average Daily Flow (L/day) By Month	3,834,056
Maximum Daily Flow (L/day)	6,416,000
Total Volume Keswick WTP (L/year)	1,028,023,292

*All data provided by the Regional Municipality of York

2025 Water Quality Testing

Reference 2025 Annual Water Quality Summary Report posted on the Town of Georgina website, in compliance with Section 11 SDWA.

Top Requested Water Quality Parameters

Chlorine	Lead (Pb)	Sodium (Na)*	Fluoride (F)**
Range 0.02 – 2.17 mg/L	Alkalinity and pH sampling complete	*Refer to York Region Annual Report	**Refer to York Region Annual Report

*The owner of a drinking water system and the Operating Authority for the system shall ensure that at least one water sample is taken every 60 months and tested for sodium.

**If a drinking water system provides fluoridation, the owner of the system and the Operating Authority for the system shall ensure that a water sample is taken at the end of the fluoridation process at least once every day and is tested for fluoride.

Chlorine Residual Testing

The Town is required to routinely monitor for “free chlorine residual” concentrations in order to ensure the minimum residual is maintained within the distribution system, in accordance with O. Reg. 170/03. As per Schedule 10, O. Reg. 170/03, samples taken from the Town’s Drinking Water Distribution System are required to have chlorine residual tests to ensure drinking water is sufficiently disinfected. In 2025, the certified Water/Wastewater Operators of the Town of Georgina submitted 4983 free chlorine samples for testing as part of routine and emergency microbiological sampling. In total, 4983 free chlorine residual samples were analyzed throughout the year.

Certified Water/Wastewater Operators took daily chlorine residuals readings throughout the distribution system as part of the Town’s Water Quality Monitoring program, as well as carrying out a weekly flushing program focused on blow-off valves, fire hydrants, dead-ends and sampling stations to purge stagnant water within the distribution system and monitor/maintain chlorine residuals at acceptable levels.

In addition to daily free chlorine residual testing, samples were collected for weekly microbiological testing and scheduled chemical tests. The range of free chlorine residual readings analyzed as part of the Town’s Water Quality Monitoring program was 0.02 mg/L to 2.17 mg/L. The legislated minimum acceptable free chlorine residual is 0.05 mg/L, and the maximum is 4.00 mg/L.

In 2025, there were four (4) Adverse Water Quality Incidents (AWQI) recorded, (refer to the 2025 AWQI Reporting table in this document for additional details). In response to recording AWQIs, the Town's Water/Wastewater Operators took corrective action in accordance with O. Reg. 170/03.

Microbiology Testing

In the Town of Georgina, Certified Water/Wastewater Operators take weekly water samples from designated sample locations within the Keswick-Sutton Water Distribution System. The York-Durham Environmental Laboratory, located in Pickering, Ontario, conducts analyses on each sample to determine the presence of bacteria. York Region and Durham Region jointly own and operate the accredited laboratory (see the link for detailed lab information <https://www.durham.ca/en/living-here/york-durham-regional-environmental-lab.aspx>).

Testing conducted under Schedule 10 of O. Reg. 170/03: *Drinking Water Systems* included the analysis of a total of 823 water samples from the Keswick-Sutton Distribution System for the presence of coliform bacteria (total coliforms and *E. coli*) between January 1, 2025, and December 31, 2025. Of the 823 microbiological samples collected in 2025, four (4) were recorded as AWQIs. For additional information, please refer to the 2025 AWQI Reporting Table within this document.

In addition, 423 samples were analyzed using the heterotrophic plate count (HPC) method to assess indicators of conditions conducive to bacterial growth within the drinking water supply system. HPC testing is used as a supplement to routine coliform analysis and assists in evaluating overall drinking water quality and the condition of the distribution system. Legislation requires a minimum of 25% of microbiological samples to be tested for HPC. In 2025, 51.5% of microbiological samples underwent HPC analysis, exceeding the mandated minimum of 25% and surpassing MECP and SDWA requirements.

The MECP Operational Guideline establishes a maximum allowable HPC concentration of 500 CFU/mL. The maximum HPC concentration recorded within the Town's Water Distribution System in 2025 was 670 CFU/mL.

HPC Range in Colony Forming Units (CFU/mL)	Number of Samples
0-670	423

Although one elevated heterotrophic plate count (HPC) result was recorded, it is important to note that all other samples were well below the threshold of 500 CFU/mL, with an average HPC value of 2.92 across all 423 samples. This demonstrates that overall water quality remained within acceptable parameters. The higher-than-normal result observed in the single sample may be attributed to potential contamination during the sampling process, including environmental factors, operator handling, or laboratory conditions at the time of analysis. This isolated result does not reflect the broader dataset, which consistently demonstrates compliance with applicable water quality standards.

Trihalomethanes (THMs) and Haloacetic Acids (HAAs) Testing

As part of the Town's Water Quality Monitoring Program, free chlorine residuals are collected during quarterly Trihalomethane (THM) and Haloacetic Acid (HAA) sampling to support assessment of disinfection effectiveness. In 2025, eight THM samples were collected at locations with the greatest potential for elevated values. The resulting twelve month Running Annual Average for THMs was 52.65 micrograms per litre, which is approximately half of the 100 micrograms per litre regulatory limit set under Ontario Regulation 169/03 and remains well within compliance. Although the Running Annual Average does not indicate a regulatory concern, the Town continues to monitor trends closely, particularly considering seasonal increases observed later in the year.

The Region has provided additional context regarding these fluctuations. According to their review of Supervisory Control and Data Acquisition (SCADA) data, the Town's sampling location and sample results is strongly influenced by the Woodbine Tower feed, where water age typically ranges between twenty-four and thirty-six hours. The Tower's re-chlorination system periodically boosts free chlorine residuals before the water re enters the distribution network. Chlorine residuals recorded in late October, and early November were notably elevated, reaching up to 2.0mg/L at the Region facility, which the Region identified as a contributing factor to the higher THM formation observed during that period. It was also noted that late season lake turnover and elevated organic and algae levels further increase THM potential.

Twelve (12) samples were tested for Haloacetic acids (HAAs) at locations identified as having the highest potential for elevated HAA concentrations, specifically at locations closest to the treatment facilities. The maximum allowable 12-month running annual average (RAA) of quarterly results is 80 µg/L, as prescribed under *O. Reg. 169/03*. The Town's 12-month HAA running average for 2025 was 25.25 µg/L, demonstrating compliance with regulatory limits, however, results approaching half of the allowable limit will continue to be monitored. Sampling for Schedule 23 (Inorganic Parameters) and Schedule 24 (Organic Parameters) under *O. Reg. 170/03* is conducted by York Region.

Sampling and testing conducted for 2025 AWQIs, with all samples returning negative results for microbiological contamination. This demonstrates that the measures implemented in accordance with *O. Reg. 170/03* are effective in ensuring the safety and potability of the water.

The summary of water test results required under Drinking Water Systems *O. Reg. 170/03* and Municipal Drinking Water License (MDWL) can be viewed on the Town website here: https://www.georgina.ca/sites/default/files/2026-02/2025-annual-water-quality-summary-report_1.pdf

Sodium

The Regional Municipality of York, which operates the water treatment facilities supplying potable water to the Town of Georgina, conducts sodium testing in accordance with its established sampling schedule. The results of the 2025 sodium sampling for the Town are available on the Region of York's website under the *Annual Water Quality Reports* section: <https://www.york.ca/environment/water-and-wastewater/drinking-water-quality-and-monitoring>.

On April 22, 2025, the Region of York reported an adverse sodium result of 37.1 mg/L at the Sutton Elevated Tank within the Town of Georgina Drinking Water System. A follow-up sample collected on April 25, 2025, confirmed a similar result of 37.4 mg/L. In accordance with the *Safe Drinking Water Act*, sodium concentrations exceeding 20 mg/L must be reported to the Ministry of the Environment, Conservation and Parks (MECP), and the Region complied with all notification requirements, including advising the Town.

As the treated water supplier, the Region of York controls any treatment to the drinking water, however, the Town continues to monitor water quality trends and remains committed to overall system compliance and public safety. In accordance with *Ontario Regulation 170/03*, the Town's next required sodium sampling is scheduled for June 2028.

Nitrate and Nitrite testing

In 2025, a total of eight (8) Nitrates and Nitrites (NO₂, NO₃) samples were tested within the distribution system at selected locations within the Town. The Regional Municipality of York conducts nitrate and nitrite testing at drinking water treatment facilities, where water enters the distribution system, as required under Schedule 13, O. Reg. 170/03.

Lead Testing

In 2007, the Province of Ontario introduced mandatory semi-annual lead testing for municipal and non-municipal drinking water systems under the *Safe Drinking Water Act, 2002*, through O. Reg. 169/03 and O. Reg. 170/03. The Ontario Drinking Water Quality Standard for lead is 10 µg/L (0.010 mg/L), based on Health Canada guidelines. Long-term testing results across Ontario have demonstrated broad compliance with this standard, prompting regulatory amendments that allow reduced lead-sampling requirements for municipal drinking water systems serving fewer than 50,000 people, provided that no more than 10% of samples exceed half of the standard over the two most recent sampling periods.

The Town has had no lead exceedances since 2007, therefore qualifies for the reduced lead-sampling schedule for the distribution system and is exempt from lead sampling within plumbing systems. Under this protocol, lead sampling is conducted every 36 months on a rolling three-year schedule, while alkalinity or pH monitoring remains mandatory on a semi-annual basis.

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

Sampling Year	1 st round sampling	Date of 1 st round sampling	# of Samples per period	2 nd round sampling	Date of 2 nd 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

In 2025, the Town was in year one of its three-year cycle, during which it was required to collect samples for alkalinity and pH. A total of eight (8) samples were collected for alkalinity testing: four (4) samples during the first round (alkalinity and pH) and four (4) samples during the second round (alkalinity and pH).

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

Sample Date	Number of Samples	Lead (mg/L) Min. – Max.	Alkalinity CaCO ₃ (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
<i>MAC – (Maximum Allowable Concentration)</i>		<i>MAC</i>	<i>OG</i>	<i>OG</i>
<i>OG – (Operational Guideline)</i>		<i>0.01mg/L</i>	<i>500mg/L</i>	<i>6.5 – 8.5</i>

*n/a - not applicable

Private Wells

Residents that obtain water from private wells are encouraged to take samples periodically to determine if their water is safe to drink. Sample bottles may be obtained at the Civic Centre and returned to the same location for testing conducted by the Ministry of Health laboratory at no cost to the residents.