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Town of Aurora
Information Report
No. OPS26-002

Subject: 2025 Summary Drinking Water

Prepared by: Emily Moore, Program Coordinator, Water/Wastewater/Stormwater

Department: Operational Services

Date: March 10, 2026

In accordance with the Procedure By-law, any Member of Council may request that this Information Report be placed on an upcoming Committee of the Whole or Council meeting agenda for discussion.

Executive Summary

This report fulfills the requirements mandated under the *Safe Drinking Water Act, 2002*, S.O. 2002, c.32 Schedule 22 (the “Act”) by providing Council with an annual summary report on the quality of the drinking water system for the 2025 reporting year.

The Annual Drinking Water Quality Report (ADWQR), Appendix 1, is a requirement under Section 11 of Ontario Regulation (O. Reg.) 170/03 – Drinking Water Systems (the “Regulation”) and will be posted to the Town’s website on or before February 28, as per requirements.

This report summarizes water quality monitoring, corrective actions and major expenses, including:

- The Annual Drinking Water Quality Report is a requirement of Ontario Regulation.
- Results of water quality testing for bacteria and harmful chemicals indicate that Aurora has a very safe, reliable and secure water supply.
- York Region receives treated water from the City of Toronto and the Region of Peel and operates seven wells within the Town.

Background

The Town of Aurora Distribution System, number 260003227, is classified as a Large Municipal Residential System, Class 2 Water Distribution System. The Town of Aurora (the Town) operates the distribution system through its Municipal Drinking Water Licence, Number 115-101 and alters the system through its Drinking Water Works Permit, Number 115-201.

The current Municipal Drinking Water Licence expires on June 15, 2026. An application to renew the Municipal Drinking Water Licence was submitted on November 6, 2025, and the application was accepted by the MECP on November 24, 2025.

The Annual Drinking Water Quality Report is a requirement of Ontario Regulation.

Legislative amendments to the Act, released in 2004, resulted in substantial changes to water and wastewater operations. Amendments to O. Reg. 170/03 increased the regulatory compliance requirements on system operations. The amendments also required an increase in reporting by system owners on the performance of the systems, to the Ministry of the Environment, Conservation and Parks (MECP) and applicable stakeholders.

Reporting under Schedule 22 of O. Reg. 170/03 was mandated, requiring the owner of a drinking water system to prepare an Annual Drinking Water Quality Report in accordance with the Regulation and submit the report to Council not later than March 31 of each year.

Staff has regularly submitted these reports to Council since 2003 and has made the information available to the public through the Town's website.

Analysis

Results of water quality testing for bacteria and harmful chemicals indicate that Aurora has a very safe, reliable and secure water supply.

Ontario Regulation 170/03 Drinking Water System outlines the testing and reporting requirements for water systems. The above regulation supports the Act and outlines all testing and reporting requirements for the drinking water systems. The attached Annual Drinking Water Quality Report fulfills the requirements of Section 11 of this regulation and provides a summary of the legislative requirements under the Act, and includes the

prescribed actions taken to address samples failing to meet parameters referred to in the Regulation.

The Town is required to sample for microbiological contamination and chlorine residual at random location points throughout the distribution network on a weekly basis. Sampling and testing for Trihalomethanes, Haloacetic Acids, N-Nitrosodimethylamine, Nitrates and Nitrites are conducted quarterly and, for lead, bi-annually. The Town applied for regulatory relief for Lead Sampling, under the Act. The Town's new regulatory requirement for Lead Sampling is: eight distribution samples for each sampling period December 15 to April 15, and June 15 to October 15.

An adverse result for bacteria testing indicates the presence of bacteria in a test referred to as a "presence/absence test".

A total of 1,046 samples were collected for microbiological testing, of which two samples had adverse test results. On re-sample, both samples passed with no issues. It is important to note that in each of the two adverse samples, there was sufficient chlorine present in the water, well within the regulatory requirements for a safe drinking water system. Re-sampling and reporting protocols were followed for all instances.

Of the 1,046 microbiological samples, 370 were also tested for Heterotrophic Plate Count (HPC), which is a measure of the non-pathogenic naturally occurring bacteria that is normally found in distribution system water. HPC indicates possibility of nutrients, stagnation or warm temperatures and is not an indicator of pathogens. Twenty-five percent of microbiological samples are required to be tested for HPC monthly but there are no limits or even health-based guidelines for quantities that are acceptable. It is typically accepted that less than 500 CFU/mL is acceptable for treated drinking water and less than that indicates healthy water that is not stagnant. In June 2025, an error occurred where twenty-five percent of the samples were not tested for HPC. The sampling plan was immediately updated. All other months were sampled in accordance with the regulations and results were between 0-135 CFU/mL as seen in the attached Annual Drinking Water Summary Report.

There was one adverse chlorine residual event detected in 2025. Operators immediately increased flushing of water in the area to increase the chlorine residual and re-samples throughout the week following showed the chlorine levels went back to normal. The issue was considered resolved the same day it was discovered.

An adverse test for harmful chemicals occurs when the concentration of a chemical element in the sample is higher than the maximum concentration specified by the

Ontario Drinking Water Quality Standards. There were no adverse results for any of the chemical tests conducted in 2025.

York Region receives treated water from the City of Toronto and the Region of Peel and operates seven wells within the Town.

York Region (the Region) receives treated water from the City of Toronto and the Region of Peel and operates seven wells within the Town. The storage and treatment of the water is the Region's responsibility. A blend of this water is supplied to the Town for distribution.

The total volume of water supplied by the Region to the Town between January 1, 2025, and December 31, 2025, is approximately 6,294,727 m³.

Table 1: Monthly flows and maximum daily flow:

Month	Monthly Average Flow (m ³)	Daily Maximum Flow (m ³)
January	488,871	18,460
February	437,050	17,787
March	467,029	18,256
April	455,534	17,945
May	510,349	22,134
June	604,225	26,885
July	667,013	24,427
August	632,203	25,200
September	546,312	21,025
October	507, 578	19,528
November	476,003	17,917
December	503,189	18,504

Schedule 22 requires that if a system is receiving all its water from another system under an agreement, a comparison of actual flow rates to the flow rates specified in the written agreement, must be provided.

Advisory Committee Review

None.

Legal Considerations

The Town, as an owner and operator of a drinking water system, is required to adhere to its obligations under the Act and its associated regulations. This Town's legislative requirements and activities to provide reports are discussed throughout this report.

Financial Implications

There are no direct financial implications as a result of this report.

Communications Considerations

The Annual Water Quality Report, attached to this report, was posted on the aurora.ca website on February 12, 2026. It is a regulatory requirement to have the Annual Water Quality Report posted online before February 28, annually.

Climate Change Considerations

The recommendations from this report does not impact greenhouse gas emissions or impact climate change adaptation.

Link to Strategic Plan

The submission of the Summary Drinking Water Report supports the Strategic Plan goal of Supporting an Exceptional Quality of Life for All through its accomplishment in satisfying requirements in the following key objective within this goal statement:

Invest in sustainable infrastructure. Maintain and expand infrastructure to support forecasted population growth through technology, waste management, roads, emergency services and accessibility.

Alternative(s) to the Recommendation

1. There are no alternatives to the recommendations presented in this report.

Conclusions

The findings from the 2025 reporting year continue to demonstrate that the Town meets all regulatory compliance requirements prescribed through applicable legislation.

Attachments

Attachment 1 – Annual Drinking Water Quality Report: January 1–December 31, 2025

Previous Reports

OPS25-003, 2024 Summary Drinking Water, March 4, 2025

Pre-submission Review

Agenda Management Team review on February 19, 2026

Approvals

Approved by Sara Tienkamp, Director, Operational Services

Approved by Doug Nadorozny, Chief Administrative Officer

Town of Aurora Drinking Water Distribution System
Drinking Water Systems Regulation O. Reg. 170/03

***MODIFIED* OPTIONAL ANNUAL REPORT TEMPLATE**

Drinking-Water System Number: 260003227
Drinking-Water System Name: **Aurora Drinking Water Distribution System**
Drinking-Water System Owner: The Corporation of The Town of Aurora
Drinking-Water System Category: Large Municipal Residential System
Period being reported: January 1, 2025 to December 31, 2025

Town of Aurora's drinking water system is registered as Large Municipal Residential Systems

The Aurora Drinking Water System serves more than 10,000 people.

This annual report is available to the public at no charge on the Town's web site and upon request.

www.aurora.ca

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

The Corporation of the Town of Aurora
100 John West Way, Box 1000
Aurora Ontario L4G 6J1

List all Drinking Water Systems which receive their drinking water from your system:

Drinking Water System Name	Drinking Water System Number

A copy of Town of Aurora's annual report was provided to York Region Drinking Water System owner from which the drinking water is obtained.

System users were notified that Town of Aurora's annual report is available free of charge by public access and notice through:

- Town's website
- Municipal Government Office
- Public Request at any time

Town of Aurora Drinking Water Distribution System

Drinking Water Systems Regulation O. Reg. 170/03

Description of the Aurora Drinking Water Distribution System

The Town of Aurora's water supply is a blended combination of ground water and surface water. York Region is the wholesale supplier of water to The Town of Aurora. York Region is responsible for the water supply, production, treatment, storage and distribution.

York Region operates seven groundwater production wells in Aurora, which range in depth from 98 to 104 meters. In Addition, York Region currently receives Lake Ontario surface water from two supply sources, the City of Toronto supply and the Region of Peel feed.

The Town owns and operates the distribution network, which includes the watermain piping, booster station, fire hydrants, bulk water filling station, service connections and meters. Aurora's distribution network, which provides water to the consumer, is divided into five pressure districts with pressures varying between 40-100 psi.

The Town's system is comprised of approximately 250 kilometers of watermain, located typically on local roads. The watermain pipe materials consist of ductile iron (37.3%), cast iron (1.4%), PVC (50.9%), Copper (1.7%), Lined (6.3%), High Density Polyethylene (0.7%), Concrete Pressure Pipe (1.4%) and Asbestos Cement (0.4%).

List all water treatment chemicals used over this reporting period

Not applicable; Treatment chemicals are introduced at various sources by the City of Toronto, Peel Region and York Region only.

Were any significant expenses incurred to?

- Install required equipment
- Repair required equipment
- Replace required equipment

Brief description and breakdown of monetary expenses incurred

Hydrants maintained in house	= 1641
Valves exercised	= 556
Water Booster Station maintenance	=\$14,872
Waterbox repairs	=\$18,379
Emergency repairs	=\$228,809
Inspection and assessment	=\$9,407.25
Capital projects	=\$1,068,647.40
Other expenses	=\$54,440.97

- 1. 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**

Town of Aurora Drinking Water Distribution System
Drinking Water Systems Regulation O. Reg. 170/03

Incident Date and Location	Parameter	Result	Unit of Measure	Corrective Action and Result	Corrective Action Date
June 30, 2025 (AWQI #168800)	Total Coliforms	P	P/A	Flush main and resample	Resampling on July 1, 2025
October 27, 2025 (AWQI #170572)	Total Coliforms	P	P/A	Flush main and resample	Resampling on October 28, 2025
November 10, 2025 (AWQI #170695)	Low Combined Chlorine	0.05	mg/L	Increase flushing	November 10, 2025

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	N/A
Treated	N/A	N/A	N/A	N/A	N/A
Distribution	1046	0-0	0-P	370	0-135

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during this reporting period

	Number of Grab Samples	Range of Results (min #)-(max #)	Unit of Measure	<i>NOTE: For continuous monitors use 8760 as the number of samples.</i>
Turbidity (treated)	Not Applicable			
Chlorine (combined)	1394	0.57-3.75	mg/L	
Fluoride (If the DWS provides fluoridation)	Not Applicable			

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
Not Applicable				

Summary of Inorganic parameters tested during this reporting period or the most recent sample results (Also see the York Region Report online for parameters not reported here)

Town of Aurora Drinking Water Distribution System
Drinking Water Systems Regulation O. Reg. 170/03

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony	Not Applicable			
Arsenic	Not Applicable			
Barium	Not Applicable			
Boron	Not Applicable			
Cadmium	Not Applicable			
Chromium	Not Applicable			
*Lead	See * and Next table – Not Applicable			
Mercury	Not Applicable			
Selenium	Not Applicable			
Sodium	Not Applicable			
Uranium	Not Applicable			
Fluoride	Not Applicable			
Nitrite	October 14, 2025	<0.05	mg/L	No
Nitrate	October 14, 2025	<0.5	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 Samples	Range of Lead Results (min) – (max)	Unit of Measure	Number of Exceedances
Plumbing	0	NA	mg/L	0
Distribution	16	<0.0005	mg/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
HAA (annual average)	quarterly	8.28	ug/l	No
THM (annual average)	quarterly	17.15	ug/l	No
NDMA	October 14, 2025	<0.0009	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

Town of Aurora Drinking Water Distribution System
Drinking Water Systems Regulation O. Reg. 170/03

Parameter	Result Value	Unit of Measure	Date of Sample
Not Applicable			

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
Not Applicable			