

**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, 2023 to December 31, 2023

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.

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

www.aurora.ca

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

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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.

In regards to the ground water, York Region operates seven production wells in Aurora, which range in depth from 98 to 104 meters. In respect to the surface water portion of the supply, the 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 (48%), cast iron (5%), and PVC (45%).

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

Hydrant maintenance	= \$ 37,620.00
Valves exercised	= 573
Water Booster Station maintenance	=\$ 24,870.00
Waterbox repairs	=\$ 49,880.00
Emergency repairs	=\$ 148,190.00
Inspection and assessment	=\$ 19,750.00
Capital projects	=\$ 289,517.00
Other expenses	=\$ 14,550.00

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

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Incident Date and Location	Parameter	Result	Unit of Measure	Corrective Action and Result	Corrective Action Date
June 12, 2023 (AWQI #162196)	Total Coliforms, EC	P	P/A	Flush main and resample	Resampling on June 13, 2023 and June 15, 2023
June 26, 2023 (AWQI #162325)	Total Coliforms,	P	P/A	Flush main and resample	Resampling on June 27, 2023
July 10, 2023 (AWQI #162524)	Total Coliforms	P	P/A	Flush main and resample.	Resampling on July 11, 2023 - adverse
July 11, 2023 (AWQI # 162569)	Total Coliforms	P	P/A	Flush main and resample.	Resampling on July 13, 2023 and July 15, 2023
July 17, 2023 (AWQI #162660)	Total Coliforms	P	P/A	Flush main and resample.	Resampling on July 19, 2023
July 31, 2023 (AWQI #162883)	Total Coliforms	P	P/A	Flush main and resample.	Resampling on August 2, 2023
July 31, 2023 (AWQI # 162884)	Total Coliforms	P	P/A	Flush main and resample.	Resampling on August 2, 2023
August 8, 2023 (AWQI # 162969)	Total Coliforms	P	P/A	Flush main and resample.	Resampling on August 9, 2023
August 21, 2023 (AWQI # 163135)	Total Coliforms	P	P/A	Flush main and resample.	Resampling on August 22, 2023
August 21, 2023 (AWQI # 163136)	Total Coliforms	P	P/A	Flush main and resample.	Resampling on August 22, 2023 - adverse
August 22, 2023 (AWQI # 163166)	Total Coliforms	P	P/A	Flush main and resample.	Resampling on August 24, 2023 and August 26, 2023
August 21, 2023 (AWQI # 163137)	Total Coliforms	P	P/A	Flush main and resample.	Resampling on August 22, 2023
August 28 (AWQI # 163233)	Total Coliforms	P	P/A	Flush main and resample.	Resampling on August 29, 2023 - adverse

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August 29, 2023 (AWQI # 163253)	Total Coliforms	P	P/A	Flush main and resample.	Resampling on August 31, 2023 - adverse
August 31, 2023 (AWQI # 163287)	Total Coliforms	P	P/A	Flush main and resample.	Resampling on September 1, 2023 and September 2, 2023
September 11, 2023 (AWQI # 163383)	Total Coliforms	P	P/A	Flush main and resample.	Resampling on September 12, 2023

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	972	0-P	0-P	486	0-240

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)	1128	Free: 0.01-0.14 Total: 0.70-2.2	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

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Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Antimony				
Arsenic				
Barium				
Boron				
Cadmium				
Chromium				
*Lead				
Mercury				
Selenium				
Sodium				
Uranium				
Fluoride				
Nitrite	October 10, 2023	<0.05	mg/L	No
Nitrate	October 10, 2023	<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 – 0.0006	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	8.75	ug/l	No
THM (annual average)	quarterly	17.15	ug/l	No
NDMA	October 10, 2023	<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

Parameter	Result Value	Unit of Measure	Date of Sample
N/A			

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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
N/A			