

Drinking Water Systems Regulation O. Reg. 170/03



**City of Richmond Hill
Drinking Water Annual Report
2021**

**Regulatory Reporting for
Municipal Drinking Water Systems**

Drinking-Water Systems Regulation O. Reg. 170/03



Drinking-Water System Number:	W260001968 Certificate # 789
Drinking-Water System Name:	Richmond Hill Distribution System
Drinking-Water System Owner:	City of Richmond Hill
Drinking-Water System Category:	Large Municipal Residential Distribution
Period being reported:	January 1, 2021 - December 31, 2021

Does your Drinking-Water System serve more than 10,000 people?Yes No **Is your annual report available to the public at no charge on a web site on the Internet?**Yes No **Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection:**

- Web Site: www.richmondhill.ca
- Town Hall, 225 East Beaver Creek, Ground Floor, Access Richmond Hill Office
- Operations Centre, 1200 Elgin Mills Road East
- Central Library

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 No

3. 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 Public Request
- Public access/notice via a Public Library

4. Describe your Drinking-Water System

The City of Richmond Hill operates and maintains a Class 2 Drinking Water Distribution System. The water in this system comes from Lake Ontario, and it is tested and treated by the City of Toronto and the Regional Municipality of Peel. The City of Richmond Hill receives the water from the Region of York and distributes it to consumers.

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

Water treatment is performed by the City of Toronto and the Regional Municipality of Peel.

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

- Repair and Maintenance of the distribution System \$3,818,000
- Replacement of Water Mains \$3,500,000 (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
18-Jun-21	Total Coliforms	P	P/A	Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. E7 Notified MECP and YRPH. Test results received for all locations passed Ontario Drinking Water Quality Standards.	25-Jun-21
25-Jun-21	Total Coliforms	P	P/A	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.	30-Jun-21
1-Jul-21	Total Coliforms	P	P/A	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.	7-Jul-21
1-Jul-21	Total Coliforms	P	P/A	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.	7-Jul-21
1-Jul-21	Total Coliforms	P	P/A	Flushed water main, resampled original AWQI location, as well as upstream and downstream locations. Notified MECP and YRPH. Test results	8-Jul-21

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				received for all locations passed Ontario Drinking Water Quality Standards.	
3-Jul-21	Total Coliforms	2	CFU/100ml	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.	8-Jul-21
13-Jul-21	Total Coliforms	P	P/A	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.	20-Jul-21
15-Jul-21	Total Coliforms	P	P/A	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.	20-Jul-21
15-Jul-21	Total Coliforms	P	P/A	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.	20-Jul-21
30-Jul-21	Total Coliforms	P	P/A	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.	5-Aug-21

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8-Aug-21	Total Coliforms	P	P/A	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.	13-Aug-21
3-Sep-21	Total Coliforms	P	P/A	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.	9-Sep-21
9-Sep-21	Total Coliforms	P	P/A	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.	13-Sep-21
1-Oct-21	Total Coliforms	P	P/A	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.	6-Oct-21

- * - Multiple samples were collected to fulfill requirements of corrective action
- P – present
- P/A – presence/absence
- CFU – colony forming unit

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					
Treated					
Distribution	1560	0-1	0-53	780	0 - 240

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
Turbidity			
Chlorine	365	0.76- 2.01	Mg/L
Fluoride (If the DWS provides fluoridation)			

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
Plumbing				
Distribution	40	<0.0005	Mg/L	0

11. Summary of Organic parameters sampled during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
THM (NOTE: show latest annual average)	Feb 3, May 5, Aug 10, Oct 13	0.01577	Mg/L	0
HAA (NOTE: show latest annual average)	Feb 3, May 5, Aug 10, Oct 13	<0.008	Mg/L	0
NDMA (NOTE: show latest annual average)	Feb 3, May 04, Aug 10, Nov 15	<0.000001	Mg/L	0