

DRINKING WATER SYSTEM

Annual
Report
2021



CITY OF TORONTO DRINKING WATER SYSTEM ANNUAL REPORT

Drinking-Water System Number:	220002262
Drinking-Water System Name:	City of Toronto Drinking Water System (R. C. Harris)
Drinking-Water System Owner:	City of Toronto
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2021 to December 31, 2021

<p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> Metro Hall 55 John Street Toronto, Ontario M5V 3C6 </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Number of Interested Authorities you report to:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes <input type="checkbox"/> No <input type="checkbox"/></p>
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NOTE: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report

List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
Region of York - receives some of their water from Toronto	260001929

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 ☐

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 a newspaper
☐ Public access/notice via Public Request
☐ Public access/notice via a Public Library
☐ Public access/notice via other method _____

Describe your Drinking-Water System

Toronto Drinking Water Supply System consists of four water treatment plants, 18 pumping stations, 11 major underground storage reservoirs, four elevated storage tanks, approximately 500 kilometers of trunk water mains and 5,576 kilometers of distribution water mains.

The R.C. Harris Water Treatment Plant is a conventional water treatment plant, has a rated capacity of 950,000 m³/day and is located at 2701 Queen Street East, Toronto.

The other three (3) Toronto Water Treatment plants are as follows:

- R.L. Clark Water Treatment Plant (Rated Capacity of 615,000 m³/day) and is located at 45 Twenty Third Street, Toronto
- F.J. Horgan Water Treatment Plant (Rated Capacity of 800,000 m³/day) and is located at 201 Copperfield Road, Toronto
- Island Water Treatment Plant (Rated Capacity of 440,000 m³/day) and is located on Centre Island, Toronto

List all water treatment chemicals used over this reporting period

Alum (Aluminum sulphate)
Chlorine
Sodium bisulphite
Hydrofluosilicic acid
Aqueous Ammonia
Phosphoric Acid

Were any significant expenses incurred to?

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

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

Capital Projects - The following amounts relate to various projects during 2020 and do not represent the total project costs. These numbers do not include the normal operating and maintenance costs.

No.	Project Name	Description	Monetary Expense
1.	HVAC Rehabilitation	Rehabilitation of plant heating, ventilation and cooling equipment, and installation of a Building Automation System	\$6,766,000
2.	Control Room Relocation	Relocation and modernization of the plant control room	\$841,000
3.	Filter and Reservoir Rehabilitation	Rehabilitation of four filters, backwash tanks and plant reservoir	\$2,665,000
4.	Water Treatment Plant Waterproofing	Repairs of water leaks into underground structures, reconstruction of plant roadway	\$172,000

5.	Building Envelope Restoration	Repairs to facility architectural and building envelope Elements	\$595,000
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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

NOTE: "Incident date" is the date adverse result was reported to MECP-SAC. "Corrective action date" is the date the location was resampled.

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
NONE	N/A	N/A	N/A	N/A	N/A

*Results were revised from the initial AWQI report as advised by ALS Laboratory on October 15, 2020, no further actions required, MECP was notified

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	365	0 - 4	0 - 20	364	0 - 298
Treated	1459	1459 A (100%A)	1459 A (100%A)	1454	0 - 64

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

Parameter	Number of Grab Samples	Range of Results (min.) - (max.)	Unit of Measure
Turbidity	8760	0.02-0.16	NTU
Chlorine	8760	1.45-2.67	mg/L
*Fluoride (If the DWS provides fluoridation)	365	0.52 – 0.72	mg/L

NOTE: For Continuous Monitoring (zero days offline):

Number of Grab Samples = 24 samples/day x 365 days/year (or 366 days/leap year) = 8760 (or 8784)

*Fluoride Grab Sample numbers and range of results are reported using data from days when fluoridation was in service

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 (Annual Average)	Unit of Measure
Nov 09, 2020 Municipal Drinking Water Licence	Total Suspended Solids (Residue Management)	Jan 01-Dec 31, 2021	3.25	mg/L
	Total Chlorine (Residue Management)	Jan 01-Dec 31, 2021	0	mg/L

NOTE: A result of zero indicates that the result obtained was below the method detection/reporting limit

Summary of Inorganic parameters tested during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value (min.) - (max.)	Unit of Measure	Exceedance
Antimony	Jan – Dec 2021	0 – 0	mg/L	No
Arsenic	Jan – Dec 2021	0.0004 – 0.0008	mg/L	No
Barium	Jan – Dec 2021	0.0200 – 0.0225	mg/L	No
Boron	Jan – Dec 2021	0.0228 – 0.0249	mg/L	No
Cadmium	Jan – Dec 2021	0 – 0	mg/L	No
Chromium	Jan – Dec 2021	0 – 0.0004	mg/L	No
Lead	Jan – Dec 2021	0 – 0	mg/L	No
Mercury	Jan – Dec 2021	0 – 0	mg/L	No
Selenium	Jan – Dec 2021	0 – 0	mg/L	No
Sodium	Jan – Dec 2021	12.0 – 17.7	mg/L	No
Uranium	Jan – Dec 2021	0.0003 – 0.0004	mg/L	No
Nitrite	Jan – Dec 2021	0 – 0	mg/L	No
Nitrate	Jan – Dec 2021	0.18 – 0.40	mg/L	No

NOTE: A result of zero indicates that the result obtained was below the method detection/reporting limit.

Summary of Lead (Pb) testing under Schedule 15.1 during this reporting period

Location Type	Number of Samples	Range of Lead Results (min.) - (max.)	Unit of Measure	Number of Exceedances
*Plumbing	*	*	*	*
*Distribution	*	*	*	*

***NOTE:** Refer to Toronto DS (Distribution System) Annual Report for Lead (Pb) testing data

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

Parameter	Sample Date	Result Value (min.) - (max.)	Unit of Measure	Exceedance
Alachlor	Jan – Dec 2021	0 – 0	µg/L	No
Atrazine + N-dealkylated metabolites	Jan – Dec 2021	0.0980 – 0.1020	µg/L	No
Azinphos-methyl	Jan – Dec 2021	0 – 0	µg/L	No
Benzene	Jan – Dec 2021	0 – 0.1	µg/L	No
Benzo(a)pyrene	Jan – Dec 2021	0 – 0	µg/L	No
Bromoxynil	Jan – Dec 2021	0 – 0	µg/L	No
Carbaryl	Jan – Dec 2021	0 – 0	µg/L	No
Carbofuran	Jan – Dec 2021	0 – 0	µg/L	No
Carbon Tetrachloride	Jan – Dec 2021	0 – 0	µg/L	No
Chlorpyrifos	Jan – Dec 2021	0 – 0	µg/L	No
Diazinon	Jan – Dec 2021	0 – 0	µg/L	No
Dicamba	Jan – Dec 2021	0 – 0	µg/L	No
1,2-Dichlorobenzene	Jan – Dec 2021	0 – 0	µg/L	No
1,4-Dichlorobenzene	Jan – Dec 2021	0 – 0	µg/L	No
1,2-Dichloroethane	Jan – Dec 2021	0 – 0	µg/L	No
1,1-Dichloroethylene (vinylidene chloride)	Jan – Dec 2021	0 – 0	µg/L	No
Dichloromethane	Jan – Dec 2021	0 – 0	µg/L	No
2,4-Dichlorophenol	Jan – Dec 2021	0 – 0	µg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Jan – Dec 2021	0 – 0	µg/L	No
Diclofop-methyl	Jan – Dec 2021	0 – 0	µg/L	No
Dimethoate	Jan – Dec 2021	0 – 0	µg/L	No
Diquat	Jan – Dec 2021	0	µg/L	No
Diuron	Jan – Dec 2021	0 – 0	µg/L	No
Glyphosate	Jan – Dec 2021	0	µg/L	No
Malathion	Jan – Dec 2021	0 – 0	µg/L	No
Metolachlor	Jan – Dec 2021	0.0070 – 0.0076	µg/L	No
Metribuzin	Jan – Dec 2021	0 – 0	µg/L	No
Monochlorobenzene	Jan – Dec 2021	0 – 0	µg/L	No
Paraquat	Jan – Dec 2021	0	µg/L	No
Pentachlorophenol	Jan – Dec 2021	0 – 0	µg/L	No
Phorate	Jan – Dec 2021	0 – 0	µg/L	No
Picloram	Jan – Dec 2021	0 – 0	µg/L	No
Polychlorinated Biphenyls(PCB)	Jan – Dec 2021	0 – 0	µg/L	No
Prometryne	Jan – Dec 2021	0 – 0	µg/L	No
Simazine	Jan – Dec 2021	0.0029 – 0.0042	µg/L	No
THM (Note: Show latest annual average)	Jan – Dec 2021	10.9	µg/L	No



Terbufos	Jan – Dec 2021	0 – 0	µg/L	No
Tetrachloroethylene	Jan – Dec 2021	0 – 0	µg/L	No
2,3,4,6-Tetrachlorophenol	Jan – Dec 2021	0 – 0	µg/L	No
Triallate	Jan – Dec 2021	0 – 0	µg/L	No
Trichloroethylene	Jan – Dec 2021	0 – 0	µg/L	No
2,4,6-Trichlorophenol	Jan – Dec 2021	0 – 0	µg/L	No
Trifluralin	Jan – Dec 2021	0 – 0	µg/L	No
Vinyl Chloride	Jan – Dec 2021	0 – 0	µg/L	No

NOTE: A result of zero indicates that the result obtained was below the method detection/reporting limit.

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
NONE	NONE	NONE	NONE

CITY OF TORONTO DRINKING WATER SYSTEM ANNUAL REPORT

Drinking-Water System Number:	220002244
Drinking-Water System Name:	City of Toronto Drinking Water System (Island)
Drinking-Water System Owner:	City of Toronto
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2021 to December 31, 2021

<p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [X] No []</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No []</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> Metro Hall 55 John Street Toronto, Ontario M5V 3C6 </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [] No []</p> <p>Number of Interested Authorities you report to:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []</p>
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List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
Region of York - receives some of their water from Toronto	260001929

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 []

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

[X] Public access/notice via the web

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[] Public access/notice via Public Request

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Describe your Drinking-Water System

Toronto Drinking Water Supply System consists of four water treatment plants, 18 pumping stations, 11 major underground storage reservoirs, four elevated storage tanks, approximately 500 kilometers of trunk watermains and 5,576 kilometers of distribution watermains.

The Island Water Treatment Plant is a direct filtration water treatment plant, has a rated capacity of 440,000 m³/day and is located at Toronto Centre Island, Toronto.

The other three (3) Toronto Water Treatment plants are as follows:

- R.L. Clark Water Treatment Plant (Rated Capacity of 615,000 m³/day) and is located at 45 Twenty Third Street, Toronto
- R.C. Harris Water Treatment Plant (Rated Capacity of 950,000 m³/day) and is located at 2701 Queen Street East, Toronto
- F.J. Horgan Water Treatment Plant (Rated Capacity of 800,000 m³/day) and is located at 201 Copperfield Road, Toronto

List all water treatment chemicals used over this reporting period

Chlorine
Sulphur dioxide
Sodium bisulphite
Hydrofluosilicic acid
Aqua ammonia
Polyaluminum Chloride (PACL)
PAX-XL52 (PACL Coagulant)
Phosphoric Acid

Were any significant expenses incurred to?

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

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

Capital Projects - The following amounts relate to various projects during 2021 and do not represent the total project costs. These numbers do not include the normal operating and maintenance costs.

No.	Project Description	Monetary Expense
1.	Design & Construction of Treated Water Tunnel Rehabilitation	\$ 9,402,000
2.	Design & Construction of Ammonia & Fluoride System Upgrades	\$ 3,613,000
3.	Design of UV Treatment, Residuals Dewatering, & Electrical Upgrades	\$ 2,189,000
4.	Design & Construction of Plantwide HVAC Upgrades	\$ 1,936,000
5.	Design & Construction of Marine Yard Rehabilitation	\$ 146,000

6.	Design of Scrubber Upgrades	\$ 111,000
7.	Design & Construction of Flood Mitigation Upgrades	\$ 117,000
8.	Design-Build Intake Cleaning	\$ 93,000
9.	Design & Construction of RW Flume	\$ 2,000

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

NOTE: "Incident date" is the date adverse result was reported to MECP-SAC. "Corrective action date" is the date the location was resampled.

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
June 1, 2021	NDMA	0.0000221	mg/L	Resample. Results acceptable.	June 6, 2021

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	264	0 - 26	0 - 26	264	0 - 1568
Treated	1065	1065 A (100%A)	1065 A (100%A)	1061	0 - 32

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

Parameter	Number of Grab Samples	Range of Results (min.) - (max.)	Unit of Measure
Turbidity	6399*	0.04 – 0.10	NTU
Chlorine	6399*	1.51 – 2.26	mg/L
**Fluoride (If the DWS provides fluoridation)	266	0.53 – 0.79	mg/L

NOTE: For Continuous Monitoring (zero days offline):

Number of Grab Samples = 24 samples/day x 365 days/year (or 366 days/leap year) = 8760 (or 8784)

*Number of Grab Samples for Turbidity and Chlorine reflects the fact that the Plant was not in service the full calendar year

**Fluoride Grab Sample numbers and range of results are reported using data from days when fluoridation was in service

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 (Monthly Average)	Unit of Measure
November 9, 2020 Municipal Drinking Water Licence	Total Suspended Solids (Residue Management) *	Jan. 1, 2021 - Dec. 31, 2021	January = 3.0 February = 4.6 March = 4.9 April = 4.5 May = 3.2 June = 3.9 July = 4.9 August = 3.6 September = 4.1 October = 5.5 November = 6.3 December = 5.6	mg/L

Date Of Legal Instrument Issued	Parameter	Date Sampled	Concentration Limit Condition A: single samples < 0.2 mg/L	Unit of Measure
November 9, 2020 Municipal Drinking Water Licence	Total Chlorine (Residue Management) **	Jan. 1, 2021 - Dec. 31, 2021	December 1-2, 2021 ⁺ < 0.2 mg/L at all times	date & mg/L
Date Of Legal Instrument Issued	Parameter	Date Sampled	Concentration Limit Condition B: 120-min average of all 5-min averaged samples < 0.02 mg/L	Unit of Measure
November 9, 2020 Municipal Drinking Water Licence	Total Chlorine (Residue Management) **	Jan. 1, 2021 - Dec. 31, 2021	December 1-2, 2021 ⁺⁺ 0.086 mg/L ⁺	date & mg/L

NOTES:

* For RMF effluent, the Total Suspended Solids limit is a monthly average concentration.

** For RMF effluent, the Total Chlorine Residual limit is a maximum concentration of: i) Condition A, 0.2 mg/L (single 5-min averaged sample) or ii) Condition B, 0.02 mg/L (120-min average concentration of all 5-min averaged samples), as applicable.

⁺ Condition A single samples did not exceed the 0.2 mg/L limit, however the frequency of single samples taken (i.e. 5-minute averaged sample requirement) was exceeded during an approximate 8 hour period during which manual titrations were conducted in the on-site laboratory to determine chlorine residual (all concentrations were below the limit). Dechlorination pucks were added to the effluent stream and the effluent decanting process ceased. This event was reported to the MECP's SAC.

⁺⁺ Condition B rolling average samples could have also exceeded the 0.02 mg/L rolling average limit over an approximate 8 hour time range, where the chlorine analyzer trend showed a high of 0.086 mg/L and a low of 0.023 mg/L. However, based on the results from manual laboratory titrations, it was clear that the analyzer values were not accurate.

Summary of Inorganic parameters tested during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value (min.) - (max.)	Unit of Measure	Exceedance
Antimony	Jan – Dec 2021	0 – 0	mg/L	No
Arsenic	Jan – Dec 2021	0.00085 – 0.00098	mg/L	No
Barium	Jan – Dec 2021	0.0217 - 0.0231	mg/L	No
Boron	Jan – Dec 2021	0.0227 – 0.0249	mg/L	No
Cadmium	Jan – Dec 2021	0 – 0	mg/L	No
Chromium	Jan – Dec 2021	0 – 0.0005	mg/L	No
Lead	Jan – Dec 2021	0 – 0	mg/L	No
Mercury	Jan – Dec 2021	0 – 0	mg/L	No
Selenium	Jan – Dec 2021	0 – 0	mg/L	No
Sodium	Jan – Dec 2021	11.6 – 13.3	mg/L	No
Uranium	Jan – Dec 2021	0.0003 - 0.0004	mg/L	No
Nitrite	Jan – Dec 2021	0 – 0	mg/L	No
Nitrate	Jan – Dec 2021	0.34 - 0.39	mg/L	No

NOTE: A result of zero indicates that the result obtained was below the method detection/reporting limit.

Summary of Lead (Pb) testing under Schedule 15.1 during this reporting period

Location Type	Number of Samples	Range of Lead Results (min.) - (max.)	Unit of Measure	Number of Exceedances
*Plumbing	*	*	*	*
*Distribution	*	*	*	*

***NOTE:** Refer to Toronto DS (Distribution System) Annual Report for Lead (Pb) testing data

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

Parameter	Sample Date	Result Value (min.) - (max.)	Unit of Measure	Exceedance
Alachlor	Jan – Dec 2021	0 – 0	µg/L	No
Atrazine + N-dealkylated metabolites	Jan – Dec 2021	0.0990 - 0.1370	µg/L	No
Azinphos-methyl	Jan – Dec 2021	0 – 0	µg/L	No
Benzene	Jan – Dec 2021	0 – 0.1	µg/L	No
Benzo(a)pyrene	Jan – Dec 2021	0 – 0	µg/L	No
Bromoxynil	Jan – Dec 2021	0 – 0	µg/L	No
Carbaryl	Jan – Dec 2021	0 – 0	µg/L	No
Carbofuran	Jan – Dec 2021	0 – 0	µg/L	No
Carbon Tetrachloride	Jan – Dec 2021	0 – 0	µg/L	No
Chlorpyrifos	Jan – Dec 2021	0 – 0	µg/L	No
Diazinon	Jan – Dec 2021	0 – 0	µg/L	No
Dicamba	Jan – Dec 2021	0 – 0	µg/L	No
1,2-Dichlorobenzene	Jan – Dec 2021	0 – 0	µg/L	No
1,4-Dichlorobenzene	Jan – Dec 2021	0 – 0	µg/L	No
1,2-Dichloroethane	Jan – Dec 2021	0 – 0	µg/L	No
1,1-Dichloroethylene (vinylidene chloride)	Jan – Dec 2021	0 – 0	µg/L	No
Dichloromethane	Jan – Dec 2021	0 – 0	µg/L	No
2,4-Dichlorophenol	Jan – Dec 2021	0 – 0	µg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Jan – Dec 2021	0 – 0	µg/L	No
Diclofop-methyl	Jan – Dec 2021	0 – 0	µg/L	No
Dimethoate	Jan – Dec 2021	0 – 0	µg/L	No
Diquat	Jan – Dec 2021	0 – 0	µg/L	No
Diuron	Jan – Dec 2021	0 – 0	µg/L	No
Glyphosate	Jan – Dec 2021	0 – 0	µg/L	No
Malathion	Jan – Dec 2021	0 – 0	µg/L	No
Metolachlor	Jan – Dec 2021	0.0072 – 0.0095	µg/L	No
Metribuzin	Jan – Dec 2021	0 – 0	µg/L	No
Monochlorobenzene	Jan – Dec 2021	0 – 0	µg/L	No
Paraquat	Jan – Dec 2021	0 – 0	µg/L	No
Pentachlorophenol	Jan – Dec 2021	0 – 0	µg/L	No
Phorate	Jan – Dec 2021	0 – 0	µg/L	No
Picloram	Jan – Dec 2021	0 – 0	µg/L	No
Polychlorinated Biphenyls (PCB)	Jan – Dec 2021	0 – 0	µg/L	No
Prometryne	Jan – Dec 2021	0 – 0	µg/L	No
Simazine	Jan – Dec 2021	0.0032-0.0042	µg/L	No
THM (Note: Show latest annual average)	Jan – Dec 2021	9.6	µg/L	No



Terbufos	Jan – Dec 2021	0 – 0	µg/L	No
Tetrachloroethylene	Jan – Dec 2021	0 – 0	µg/L	No
2,3,4,6-Tetrachlorophenol	Jan – Dec 2021	0 – 0	µg/L	No
Triallate	Jan – Dec 2021	0 – 0	µg/L	No
Trichloroethylene	Jan – Dec 2021	0 – 0	µg/L	No
2,4,6-Trichlorophenol	Jan – Dec 2021	0 – 0	µg/L	No
Trifluralin	Jan – Dec 2021	0 – 0	µg/L	No
Vinyl Chloride	Jan – Dec 2021	0 – 0	µg/L	No

NOTE: A result of zero indicates that the result obtained was below the method detection/reporting limit.

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 (min.) - (max.)	Unit of Measure	Date of Sample
NONE	NONE	NONE	NONE



CITY OF TORONTO DRINKING WATER SYSTEM ANNUAL REPORT

Drinking-Water System Number:	220002253
Drinking-Water System Name:	City of Toronto Drinking Water System (R. L. Clark)
Drinking-Water System Owner:	City of Toronto
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2021 to December 31, 2021

<p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/></p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> Metro Hall 55 John Street Toronto, Ontario M5V 3C6 </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes <input type="checkbox"/> No <input type="checkbox"/></p> <p>Number of Interested Authorities you report to:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes <input type="checkbox"/> No <input type="checkbox"/></p>
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- R.C. Harris Water Treatment Plant (Rated Capacity of 950,000 m³/day) and is located at 2701 Queen Street East, Toronto
- F.J. Horgan Water Treatment Plant (Rated Capacity of 800,000 m³/day) and is located at 201 Copperfield Road, Toronto
- Island Water Treatment Plant (Rated Capacity of 440,000 m³/day) and is located on Centre Island, Toronto

List all water treatment chemicals used over this reporting period

Alum (Aluminum Sulphate)
 Chlorine
 Sulphur Dioxide
 Hydrofluosilic Acid
 Aqua Ammonia
 Phosphoric Acid
 Cationic polymer was used for residuals treatment.

Were any significant expenses incurred to?

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

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

Capital Projects - The following amounts relate to various projects during 2020 and do not represent the total project costs. These numbers do not include the normal operating and maintenance costs.

No.	Project Name	Description	Monetary Expense
1.	Zebra Mussel Control System Replacement	System Construction	\$400,000
2.	Gaseous Systems Upgrade	System Engineering Design	\$100,000
3.	Standby Power	System Engineering Design	\$400,000



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

4.	Misc. Plant Projects	Various plant equipment rehabilitation	\$330,000
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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

NOTE: "Incident date" is the date adverse result was reported to MECP-SAC. "Corrective action date" is the date the location was resampled.

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
June 1, 2021	NDMA	0.0000643	mg/L	Resample	June 4, 2021
March 8, 2021	Filter Effluent Turbidity	No indication	NTU	Faulty analyzer replaced	April 29, 2021

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	153	0 - 21	0 - 50	152	0 - 295
Treated	1429	1429 A (100%A)	1429 A (100%A)	1425	0 - 6

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

Parameter	Number of Grab Samples	Range of Results (min.) - (max.)	Unit of Measure
Turbidity	8594*	0.04 - 0.14	NTU
Chlorine	8594*	1.67 - 2.31	mg/L
**Fluoride (If the DWS provides fluoridation)	355	0.52 - 0.76	mg/L

NOTE: For Continuous Monitoring (zero days offline):

Number of Grab Samples = 24 samples/day x 365 days/year (or 366 days/leap year) = 8760 (or 8784)

*The plant was not in service for several days during the year.

**Fluoride Grab Sample numbers and range of results are reported using data from days when fluoridation was in service.

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
November 9, 2020 Municipal Drinking Water Licence	Total Suspended Solids (Residue Management)	Jan 01-Dec 31, 2021	2.83	mg/L
	Total Chlorine (Residue Management)	Jan 01-Dec 31, 2021	0	mg/L

Summary of Inorganic parameters tested during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value (min.) - (max.)	Unit of Measure	Exceedance
Antimony	Jan – Dec 2021	0 – 0	mg/L	No
Arsenic	Jan – Dec 2021	0.0006 – 0.0008	mg/L	No
Barium	Jan – Dec 2021	0.0198 – 0.0230	mg/L	No
Boron	Jan – Dec 2021	0.0226 – 0.0267	mg/L	No
Cadmium	Jan – Dec 2021	0 – 0	mg/L	No
Chromium	Jan – Dec 2021	0.0002 – 0.0004	mg/L	No
Lead	Jan – Dec 2021	0 – 0	mg/L	No
Mercury	Jan – Dec 2021	0 – 0	mg/L	No
Selenium	Jan – Dec 2021	0 – 0	mg/L	No
Sodium	Jan – Dec 2021	12.3 – 23.6	mg/L	Yes
Uranium	Jan – Dec 2021	0.0003 – 0.0004	mg/L	No
Nitrite	Jan – Dec 2021	0 – 0.002	mg/L	No
Nitrate	Jan – Dec 2021	0.23 – 0.56	mg/L	No

NOTE: A result of zero indicates that the result obtained was below the method detection/reporting limit.

Summary of Lead (Pb) testing under Schedule 15.1 during this reporting period

Location Type	Number of Samples	Range of Lead Results (min.) - (max.)	Unit of Measure	Number of Exceedances
*Plumbing	*	*	*	*
*Distribution	*	*	*	*

***NOTE:** Refer to Toronto DS (Distribution System) Annual Report for Lead (Pb) testing data

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

Parameter	Sample Date	Result Value (min.) - (max.)	Unit of Measure	Exceedance
Alachlor	Jan – Dec 2021	0 – 0	µg/L	No
Atrazine + N-dealkylated metabolites	Jan – Dec 2021	0.0960 – 0.1400	µg/L	No
Azinphos-methyl	Jan – Dec 2021	0 – 0	µg/L	No
Benzene	Jan – Dec 2021	0 – 0.1	µg/L	No
Benzo(a)pyrene	Jan – Dec 2021	0 – 0	µg/L	No
Bromoxynil	Jan – Dec 2021	0 – 0	µg/L	No
Carbaryl	Jan – Dec 2021	0 – 0	µg/L	No
Carbofuran	Jan – Dec 2021	0 – 0	µg/L	No
Carbon Tetrachloride	Jan – Dec 2021	0 – 0	µg/L	No
Chlorpyrifos	Jan – Dec 2021	0 – 0	µg/L	No
Diazinon	Jan – Dec 2021	0 – 0	µg/L	No
Dicamba	Jan – Dec 2021	0 – 0	µg/L	No
1,2-Dichlorobenzene	Jan – Dec 2021	0 – 0	µg/L	No
1,4-Dichlorobenzene	Jan – Dec 2021	0 – 0	µg/L	No
1,2-Dichloroethane	Jan – Dec 2021	0 – 0	µg/L	No
1,1-Dichloroethylene (vinylidene chloride)	Jan – Dec 2021	0 – 0	µg/L	No
Dichloromethane	Jan – Dec 2021	0 – 0.50	µg/L	No
2,4-Dichlorophenol	Jan – Dec 2021	0 – 0	µg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Jan – Dec 2021	0 – 0	µg/L	No
Diclofop-methyl	Jan – Dec 2021	0 – 0	µg/L	No
Dimethoate	Jan – Dec 2021	0 – 0	µg/L	No
Diquat	Jan – Dec 2021	0	µg/L	No
Diuron	Jan – Dec 2021	0 – 0.0011	µg/L	No
Glyphosate	Jan – Dec 2021	0	µg/L	No
Malathion	Jan – Dec 2021	0 – 0	µg/L	No
Metolachlor	Jan – Dec 2021	0.0070 – 0.0105	µg/L	No
Metribuzin	Jan – Dec 2021	0 – 0	µg/L	No
Monochlorobenzene	Jan – Dec 2021	0 – 0	µg/L	No
Paraquat	Jan – Dec 2021	0	µg/L	No
Pentachlorophenol	Jan – Dec 2021	0 – 0	µg/L	No
Phorate	Jan – Dec 2021	0 – 0	µg/L	No
Picloram	Jan – Dec 2021	0 – 0	µg/L	No
Polychlorinated Biphenyls (PCB)	Jan – Dec 2021	0 – 0	µg/L	No
Prometryne	Jan – Dec 2021	0 – 0	µg/L	No
Simazine	Jan – Dec 2021	0.0031 – 0.0042	µg/L	No
THM (Note: showing latest annual average)	Jan – Dec 2021	11.5	µg/L	No



Terbufos	Jan – Dec 2021	0 – 0	µg/L	No
Tetrachloroethylene	Jan – Dec 2021	0 – 0	µg/L	No
2,3,4,6-Tetrachlorophenol	Jan – Dec 2021	0 – 0	µg/L	No
Triallate	Jan – Dec 2021	0 – 0	µg/L	No
Trichloroethylene	Jan – Dec 2021	0 – 0	µg/L	No
2,4,6-Trichlorophenol	Jan – Dec 2021	0 – 0	µg/L	No
Trifluralin	Jan – Dec 2021	0 – 0	µg/L	No
Vinyl Chloride	Jan – Dec 2021	0 – 0	µg/L	No

NOTE: A result of zero indicates that the result obtained was below the method detection/reporting limit.

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 (min.) - (max.)	Unit of Measure	Date of Sample
NONE	NONE	NONE	NONE



CITY OF TORONTO DRINKING WATER SYSTEM ANNUAL REPORT

Drinking-Water System Number:	220004536
Drinking-Water System Name:	City of Toronto Drinking Water System (F. J. Horgan)
Drinking-Water System Owner:	City of Toronto
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2021 to December 31, 2021

<p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [X] No []</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No []</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> Metro Hall 55 John Street Toronto, Ontario M5V 3C6 </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [] No []</p> <p>Number of Interested Authorities you report to:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []</p>
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NOTE: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report

List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
Region of York - receives some of their water from Toronto	260001929

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 []

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

[] Public access/notice via a newspaper

[] Public access/notice via Public Request

[] Public access/notice via a Public Library

[] Public access/notice via other method _____

Describe your Drinking-Water System

Toronto Water Supply System consists of four water treatment plants, 18 pumping stations, 11 major underground storage reservoirs, four elevated storage tanks, approximately 500 kilometers of trunk watermains and 5,576 kilometers of distribution watermains.

The F.J. Horgan Water Treatment Plant is a direct water treatment plant, has a rated capacity of 800,000 m³/day and is located at 201 Copperfield Road, Toronto.

The other three (3) Toronto Water Treatment plants are as follows:

- R.L. Clark Water Treatment Plant (Rated Capacity of 615,000 m³/day) and is located at 45 Twenty Third Street, Toronto
- R.C. Harris Water Treatment Plant (Rated Capacity of 950,000 m³/day) and is located at 2701 Queen Street East, Toronto
- Island Water Treatment Plant (Rated Capacity of 440,000 m³/day) and is located on Centre Island, Toronto

List all water treatment chemicals used over this reporting period

Alum (Aluminum sulphate)
 Polyaluminum Chloride (PACL – XL52)
 Chlorine
 Sulphur dioxide
 Hydrofluosilicic acid
 Aqua ammonia
 Liquid Oxygen
 Ozone
 Sodium bisulphite (SBS)
 Phosphoric acid
 Polymer - Anionic (FLO AF340) for waste residuals treatment
 Polymer - Cationic (Floquat MG FL 4620)

Were any significant expenses incurred to?

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

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

Capital Projects - The following amounts relate to various projects during 2021 and do not represent the total project costs. These numbers do not include the normal operating and maintenance costs.

No.	Project Description	Monetary Expense
1.	Facility and Process Upgrades	\$202,800
2.	Electrical Improvements	\$1,057,310

3.	Raw Water Valves Replacement	\$492,840
4.	Ozone System Rehabilitation	\$2,105,440
5.	Baffle Installation	\$1,702,670
6.	Zebra Mussel Control System Replacement	\$444,050
7.	Gaseous System Upgrades	\$753,440

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

NOTE: "Incident date" is the date adverse result was reported to MECP-SAC. "Corrective action date" is the date the location was resampled.

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
21-May-2021	Total Coliform	Present	Result in 100 mL sample	Resampled	21-May-2021

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	348	0 - 6	0 - 8	348	0 - 144
Treated	1426	1426 A (100%A)	1425 A (99.9%A)	1423	0 - 17

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

Parameter	Number of Grab Samples	Range of Results (min.) - (max.)	Unit of Measure
Turbidity	8760	0.02 – 0.09	NTU
Chlorine	8760	1.65 – 2.68	mg/L
*Fluoride (If the DWS provides fluoridation)	360	0.13 – 0.70	mg/L

NOTE: For Continuous Monitoring (zero days offline):

Number of Grab Samples = 24 samples/day x 365 days/year (or 366 days/leap year) = 8760 (or 8784)

*Fluoride Grab Sample numbers and range of results are reported using data from days when fluoridation was in service.

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 (Annual Average)	Unit of Measure
November 9, 2020 Municipal Drinking Water Licence	Total Suspended Solids (Residue Management)	Jan. 1, 2021 - Dec. 31, 2021	10.17	mg/L

Summary of Inorganic parameters tested during this reporting period or the most recent sample results

Parameter	Sample Date	Result Value (min.) - (max.)	Unit of Measure	Exceedance
Antimony	Jan – Dec 2021	0 – 0	mg/L	No
Arsenic	Jan – Dec 2021	0.00085 – 0.00091	mg/L	No
Barium	Jan – Dec 2021	0.0182 – 0.0280	mg/L	No
Boron	Jan – Dec 2021	0.0193 – 0.0250	mg/L	No
Cadmium	Jan – Dec 2021	0 – 0	mg/L	No
Chromium	Jan – Dec 2021	0 – 0.0004	mg/L	No
Lead	Jan – Dec 2021	0 – 0.0001	mg/L	No
Mercury	Jan – Dec 2021	0 – 0	mg/L	No
Selenium	Jan – Dec 2021	0 – 0	mg/L	No
Sodium	Jan – Dec 2021	12.0 – 18.1	mg/L	No
Uranium	Jan – Dec 2021	0.0003 – 0.0004	mg/L	No
Nitrite	Jan – Dec 2021	0 – 0.0030	mg/L	No
Nitrate	Jan – Dec 2021	0.26 – 0.43	mg/L	No

NOTE: A result of zero indicates that the result obtained was below the method detection/reporting limit.

Summary of Lead (Pb) testing under Schedule 15.1 during this reporting period

Location Type	Number of Samples	Range of Lead Results (min.) - (max.)	Unit of Measure	Number of Exceedances
*Plumbing	*	*	*	*
*Distribution	*	*	*	*

***NOTE:** Refer to Toronto DS (Distribution System) Annual Report for Lead (Pb) testing data

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

Parameter	Sample Date	Result Value (min.) - (max.)	Unit of Measure	Exceedance
Alachlor	Jan – Dec 2021	0 – 0	µg/L	No



Atrazine + N-dealkylated metabolites	Jan – Dec 2021	0.0690 – 0.1360	µg/L	No
Azinphos-methyl	Jan – Dec 2021	0 – 0	µg/L	No
Benzene	Jan – Dec 2021	0 – 0.1	µg/L	No
Benzo(a)pyrene	Jan – Dec 2021	0 – 0	µg/L	No
Bromoxynil	Jan – Dec 2021	0 – 0	µg/L	No
Carbaryl	Jan – Dec 2021	0 – 0	µg/L	No
Carbofuran	Jan – Dec 2021	0 – 0	µg/L	No
Carbon Tetrachloride	Jan – Dec 2021	0 – 0	µg/L	No
Chlorpyrifos	Jan – Dec 2021	0 – 0	µg/L	No
Diazinon	Jan – Dec 2021	0 – 0	µg/L	No
Dicamba	Jan – Dec 2021	0 – 0	µg/L	No
1,2-Dichlorobenzene	Jan – Dec 2021	0 – 0	µg/L	No
1,4-Dichlorobenzene	Jan – Dec 2021	0 – 0	µg/L	No
1,2-Dichloroethane	Jan – Dec 2021	0 – 0	µg/L	No
1,1-Dichloroethylene (vinylidene chloride)	Jan – Dec 2021	0 – 0	µg/L	No
Dichloromethane	Jan – Dec 2021	0 – 0	µg/L	No
2,4-Dichlorophenol	Jan – Dec 2021	0 – 0	µg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Jan – Dec 2021	0 – 0	µg/L	No
Diclofop-methyl	Jan – Dec 2021	0 – 0	µg/L	No
Dimethoate	Jan – Dec 2021	0 – 0	µg/L	No
Diquat	Jan – Dec 2021	0	µg/L	No
Diuron	Jan – Dec 2021	0 – 0	µg/L	No
Glyphosate	Jan – Dec 2021	0	µg/L	No
Malathion	Jan – Dec 2021	0 – 0	µg/L	No
Metolachlor	Jan – Dec 2021	0.0022 – 0.0054	µg/L	No
Metribuzin	Jan – Dec 2021	0 – 0	µg/L	No
Monochlorobenzene	Jan – Dec 2021	0 – 0	µg/L	No
Paraquat	Jan – Dec 2021	0	µg/L	No
Pentachlorophenol	Jan – Dec 2021	0 – 0	µg/L	No
Phorate	Jan – Dec 2021	0 – 0	µg/L	No
Picloram	Jan – Dec 2021	0 – 0	µg/L	No
Polychlorinated Biphenyls(PCB)	Jan – Dec 2021	0 – 0	µg/L	No
Prometryne	Jan – Dec 2021	0 – 0	µg/L	No
Simazine	Jan – Dec 2021	0.0017 – 0.0025	µg/L	No
THM (Note: Show latest annual average)	Jan – Dec 2021	6.5	µg/L	No
Terbufos	Jan – Dec 2021	0 – 0	µg/L	No
Tetrachloroethylene	Jan – Dec 2021	0 – 0	µg/L	No
2,3,4,6-Tetrachlorophenol	Jan – Dec 2021	0 – 0	µg/L	No
Triallate	Jan – Dec 2021	0 – 0	µg/L	No
Trichloroethylene	Jan – Dec 2021	0 – 0	µg/L	No



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2,4,6-Trichlorophenol	Jan – Dec 2021	0 – 0	µg/L	No
Trifluralin	Jan – Dec 2021	0 – 0	µg/L	No
Vinyl Chloride	Jan – Dec 2021	0 – 0	µg/L	No

NOTE: A result of zero indicates that the result obtained was below the method detection/reporting limit.

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 (min.) - (max.)	Unit of Measure	Date of Sample
NONE	NONE	NONE	NONE

CITY OF TORONTO DRINKING WATER SYSTEM ANNUAL REPORT

Drinking-Water System Number:	260090363
Drinking-Water System Name:	City of Toronto Drinking Water System – Toronto DS
Drinking-Water System Owner:	City of Toronto
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2021 to December 31, 2021

<p><u>Complete if your Category is Large Municipal Residential or Small Municipal Residential</u></p> <p>Does your Drinking-Water System serve more than 10,000 people? Yes [X] No []</p> <p>Is your annual report available to the public at no charge on a web site on the Internet? Yes [X] No []</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <div style="border: 1px solid black; padding: 5px;"> Metro Hall 55 John Street Toronto, Ontario M5V 3C6 </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>Did you provide a copy of your annual report to all Designated Facilities you serve? Yes [] No []</p> <p>Number of Interested Authorities you report to:</p> <div style="border: 1px solid black; height: 20px; width: 100%;"></div> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []</p>
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NOTE: For the following tables below, additional rows or columns may be added or an appendix may be attached to the report

List all Drinking-Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
Region of York – receives some of their water from Toronto	260001929

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 []

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
- [] Public access/notice via a newspaper
- [] Public access/notice via Public Request
- [] Public access/notice via a Public Library
- [] Public access/notice via other method _____



Describe your Drinking-Water System

Toronto Drinking Water Supply System consists of four water treatment plants, 18 pumping stations, 11 major underground storage reservoirs, four elevated storage tanks, approximately 500 kilometers of trunk water mains and 5,576 kilometers of distribution water mains.

Working from multiple facilities across the city, Distribution & Supply staff inspect, operate and maintain the existing water distribution and supply systems.

There are four (4) Toronto Water Treatment plants:

- R.L. Clark Water Treatment Plant (Rated Capacity of 615,000 m³/day) and is located at 45 Twenty Third Street, Toronto
- R.C. Harris Water Treatment Plant (Rated Capacity of 950,000 m³/day) and is located at 2701 Queen Street East, Toronto
- F.J. Horgan Water Treatment Plant (Rated Capacity of 800,000 m³/day) and is located at 201 Copperfield Road, Toronto
- Island Water Treatment Plant (Rated Capacity of 440,000 m³/day) and is located on Centre Island, Toronto

List all water treatment chemicals used over this reporting period

N/A

Were any significant expenses incurred to?

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

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

Please note that the following amounts relate to various projects during 2021 and do not represent the total project costs. These numbers do not include normal operating and maintenance costs.

Distribution System:

Watermain Replacement	\$ 103.87 million
Water Service Replacement	\$ 47.17 million
Watermain Rehabilitation	\$ 79.63 million

Water Supply:

Facility Rehab and Standby Power	\$ 10.5 million
Transmission Main Rehabilitation	\$ 759,000
New Transmission Main Construction	\$ 8.78 million
Valve Automation	\$ 2.46 million
Revenue Meters	\$ 139,000
New Treated Water Booster Pumps	\$ 463,000

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

NOTE: "Incident date" is the date adverse result was reported to MECP-SAC; "Corrective action date" is the date the location was resampled.

AWQI Number	Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Resample Date
153453	23-Jan-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	25-Jan-21
153842	11-Apr-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	12-Apr-21
153866	13-Apr-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	14-Apr-21
153939	24-Apr-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	26-Apr-21
154213	04-Jun-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	04-Jun-21
154282	12-Jun-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	14-Jun-21
154283	12-Jun-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	14-Jun-21
154284	12-Jun-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	14-Jun-21



154467	30-Jun-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	30-Jun-21
154468	30-Jun-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	30-Jun-21
154606	11-Jul-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	12-Jul-21
154649	14-Jul-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	14-Jul-21
154705	16-Jul-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	16-Jul-21
154724	17-Jul-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	19-Jul-21
154726	17-Jul-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	19-Jul-21
154736	18-Jul-21	TC	P	NONE	Flushed watermain. Resampled. Results acceptable.	19-Jul-21
154793	22-Jul-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	22-Jul-21
154794	22-Jul-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	22-Jul-21



154818	23-Jul-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	23-Jul-21
154819	23-Jul-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	23-Jul-21
154829	25-Jul-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	26-Jul-21
155021	11-Aug-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	12-Aug-21
155189	22-Aug-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	22-Aug-21
155190	22-Aug-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	22-Aug-21
155210	24-Aug-21	TC	35	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	25-Aug-21
155211	24-Aug-21	TC	20	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	25-Aug-21
155260	26-Aug-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	26-Aug-21
155273	27-Aug-21	TC	2	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	28-Aug-21



155274	27-Aug-21	TC	110	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	28-Aug-21
155275	27-Aug-21	TC	1	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	28-Aug-21
155276	27-Aug-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	28-Aug-21
155277	27-Aug-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	28-Aug-21
155278	27-Aug-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	28-Aug-21
155279	27-Aug-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	28-Aug-21
155284	28-Aug-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	28-Aug-21
155286	29-Aug-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	30-Aug-21
155287	29-Aug-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	30-Aug-21
155295	30-Aug-21	TC	4	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	30-Aug-21



155296	30-Aug-21	TC	9	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	30-Aug-21
155297	30-Aug-21	TC	37	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	30-Aug-21
155322	01-Sep-21	TC	2	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	02-Sep-21
155324	01-Sep-21	TC	19	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	02-Sep-21
155325	01-Sep-21	TC	40	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	02-Sep-21
155384	03-Sep-21	TC TC TC	5 4 4	CFU/ 100mL CFU/ 100mL	Flushed watermain. Resampled. Results acceptable. 3 samples taken 1 min apart, all 3 adverse and reported under one AWQI.	04-Sep-21
155386	03-Sep-21	TC	2	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	04-Sep-21
155387	03-Sep-21	TC TC TC	9 10 21	CFU/ 100mL CFU/ 100mL CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	04-Sep-21



					3 samples taken 1 min apart, all 3 adverse and reported under one AWQI	
155388	03-Sep-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	04-Sep-21
155389	03-Sep-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	04-Sep-21
155393	03-Sep-21	Total Chlorine	<0.10	mg/L	Flushed Watermain. Resampled. Results Acceptable. Flushed Watermain. Resampled. Results Acceptable.	04-Sep-21
155395	04-Sep-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	05-Sep-21
155401	06-Sep-21	TC	1	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	05-Sep-21
155410	07-Sep-21	TC	1	CFU/ 100mL	Hydrant rechlorinated. Resampled. Results acceptable.	22-Sep-21
155411	07-Sep-21	TC	1	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	08-Sep-21
155423	08-Sep-21	TC	2	CFU/ 100mL	Flushed watermain. Resampled.	09-Sep-21



					Results acceptable.	
155424	08-Sep-21	TC	1	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	09-Sep-21
155443	10-Sep-21	TC	3	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	10-Sep-21
155450	11-Sep-21	TC	1	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	14-Sep-21
155451	11-Sep-21	TC	4	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	14-Sep-21
155503	15-Sep-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	15-Sep-21
155542	17-Sep-21	TC	1	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	17-Sep-21
155545	17-Sep-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	17-Sep-21
155546	17-Sep-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	17-Sep-21
155564	18-Sep-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	18-Sep-21
155565	18-Sep-21	TC	8	CFU/ 100mL	Flushed watermain.	20-Sep-21



					Resampled. Results acceptable.	
155576	20-Sep-21	TC	3	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	21-Sep-21
155578	20-Sep-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	20-Sep-21
155589	21-Sep-21	TC	7	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	21-Sep-21
155637	23-Sep-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	24-Sep-21
155638	23-Sep-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	24-Sep-21
155662	25-Sep-21	TC	11	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	27-Sep-21
155766	01-Oct-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	01-Oct-21
155767	01-Oct-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	01-Oct-21
155768	01-Oct-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	01-Oct-21
155779	03-Oct-21	TC	7	CFU/ 100mL	Flushed watermain.	04-Oct-21

					Resampled. Results acceptable.	
155780	03-Oct-21	TC	2	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	05-Oct-21
155813	05-Oct-21	TC	1	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	07-Oct-21
155843	06-Oct-21	TC	1	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	07-Oct-21
155844	06-Oct-21	TC	1	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	07-Oct-21
155902	08-Oct-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	08-Oct-21
155926	09-Oct-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	09-Oct-21
155929	10-Oct-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	09-Oct-21
155930	11-Oct-21	TC	21	CFU/ 100mL	Flushed watermain. Resampled.	10-Oct-21
155934	12-Oct-21	TC	28	CFU/ 100mL	Flushed watermain. Resampled.	13-Oct-21
155982	14-Oct-21	TC	7	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	14-Oct-21



155983	14-Oct-21	TC	8	CFU/ 100mL	Flushed watermain. Resampled.	14-Oct-21
155988	14-Oct-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	15-Oct-21
156030	16-Oct-21	TC	9	CFU/ 100mL	Flushed watermain. Resampled.	15-Oct-21
156031	16-Oct-21	TC	3	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	15-Oct-21
156033	17-Oct-21	TC	6	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	19-Oct-21
156034	17-Oct-21	TC	12	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	19-Oct-21
156095	20-Oct-21	TC	2	CFU/ 100mL	Rechlorinated watermain. Resampled. Results acceptable.	26-Oct-21
156096	20-Oct-21	TC	6	CFU/ 100mL	Rechlorinated watermain. Resampled. Results acceptable.	26-Oct-21
156118	21-Oct-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	22-Oct-21
156143	22-Oct-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	22-Oct-21
156144	212-Oct-21	TC_P_A	P	NONE	Flushed watermain. Resampled.	22-Oct-21



					Results acceptable.	
156177	23-Oct-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	25-Oct-21
156178	23-Oct-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	25-Oct-21
156179	23-Oct-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	23-Oct-21
156180	23-Oct-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	25-Oct-21
156181	23-Oct-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	25-Oct-21
156182	23-Oct-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	25-Oct-21
156188	24-Oct-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	25-Oct-21
156189	24-Oct-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	25-Oct-21
156231	27-Oct-21	TC	1	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	27-Oct-21
156285	31-Oct-21	TC_P_A	P	NONE	Flushed watermain. Resampled.	01-Nov-21



					Results acceptable.	
156357	03-Nov-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	04-Nov-21
156432	06-Nov-21	TC TC_P_A	2 P	CFU/ 100mL NONE	Flushed watermain. Resampled. Results acceptable. Reported both	08-Nov-21
156433	06-Nov-21	TC TC_P_A	2 P	CFU/ 100mL NONE	Flushed watermain. Resampled. Results acceptable. Reported both	01-Nov-21
156473	09-Nov-21	TC	1	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	10-Nov-21
156724	19-Nov-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	19-Nov-21
156725	19-Nov-21	Total Chlorine	<0.25	mg/L	Flushed watermain. Resampled. Results acceptable.	19-Nov-21
156811	24-Nov-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	26-Nov-21
156845	25-Nov-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	26-Nov-21
156905	27-Nov-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	29-Nov-21



156906	27-Nov-21	E.Coli_P_ A TC_P_A	P P	NONE NONE	Flushed watermain. Resampled. Results acceptable. Reported both	28-Nov-21
156907	27-Nov-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	29-Nov-21
157079	02-Dec-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	03-Dec-21
157477	23-Dec-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	24-Dec-21
157478	23-Dec-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	24-Dec-21
157481	24-Dec-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	24-Dec-21
157482	24-Dec-21	TC_P_A	P	NONE	Flushed watermain. Resampled. Results acceptable.	24-Dec-21
157485	26-Dec-21	TC	1	CFU/ 100mL	Flushed watermain. Resampled. Results acceptable.	26-Dec-21

***NOTE:** Sample analyzed by Membrane filtration and P/A.

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.) or P/A	Range of Total Coliform Results (min.) - (max.) or P/A	Number of HPC Samples	Range of HPC Results (min.) - (max.)
*Distribution	3055	3055A (100% A)	3053A (99.93% A)	3055	0 - 202
Transmission	2005	2005A (100% A)	2005A (100% A)	2005	0 - 3577
Main Work	1791	1790A (99.94% A)	1717A (95.87 A)	1791	0 - 5000
Resample and vicinity	328	328A (100% A)	278A (84.76% A) (0 – 110)	328	0 - 790

***NOTE:** "Distribution" includes samples submitted for Water Quality Inquiry as well as distribution samples; "Resample and vicinity" bacti samples are processed by Membrane filtration technique. The rest of the bacti samples are processed using the Presence/Absence technique.

Operational testing done under Schedule 7, 8 or 9 of Regulation 170/03 during the period covered by this Annual Report.

For Distribution

	Number of Grab Samples	Range of Results (min.) - (max.)
Turbidity	2999	<0.1 – 5.13 NTU
Chlorine	3055	<0.25 – 2.36 mg/L

For Transmission

	Number of Grab Samples	Range of Results (min.) - (max.)
Turbidity	2007	<0.1 – 4.83 NTU
Chlorine	2007	0.34 – 2.58 mg/L

For Main Work

	Number of Grab Samples	Range of Results (min.) - (max.)
Turbidity	1791	0.02 – 3.92 NTU
Chlorine	1791	0.25 – 2.20 mg/L

For Resample/Vicinity

	Number of Grab Samples	Range of Results (min.) - (max.)
Turbidity	328	0.09 – 3.02 NTU
Chlorine	328	0.61 – 2.20 mg/L

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
NONE	NONE	NONE	NONE	NONE

Summary of Inorganic parameters tested during this reporting period or the most recent sample results for Transmission samples.

Parameter	Sample Date	Result Value (min.) - (max.)	Unit of Measure	Exceedance
Sodium	Jan-Dec 2021	11.9 – 17.8	mg/L	No
Nitrite	Jan-Dec 2021	0 – 0.003	mg/L	No
Nitrate	Jan-Dec 2021	0.25 – 0.52	mg/L	No

NOTE: A result of zero indicates that the result obtained was below the method detection/reporting limit.

Summary of Inorganic parameters tested during this reporting period or the most recent sample results for Distribution samples.

Parameter	Sample Date	Result Value (min.) - (max.)	Unit of Measure	Exceedance
Antimony	Jan – Dec 2021	0 – 0.0005	mg/L	No
Arsenic	Jan – Dec 2021	0.0005 – 0.0009	mg/L	No
Barium	Jan – Dec 2021	0.0213 – 0.0228	mg/L	No
Boron	Jan – Dec 2021	0.0226 – 0.0249	mg/L	No
Cadmium	Jan – Dec 2021	0 – 0	mg/L	No
Chromium	Jan – Dec 2021	0 – 0.0003	mg/L	No
Nitrate	Jan - Dec 2021	0.33 – 0.43	mg/L	No
Nitrite	Jan - Dec 2021	0 – 0.003	mg/L	No
Selenium	Jan – Dec 2021	0 – 0	mg/L	No
Sodium	Jan - Dec 2021	12.7 – 16.8	mg/L	No
Uranium	Jan – Dec 2021	0.0003 – 0.0004	mg/L	No

NOTE: A result of zero indicates that the result obtained was below the method detection/reporting limit.

Summary of Lead (Pb) testing under Schedule 15.1 during this reporting period as per the current Drinking Water System License

Location Type	Number of Samples	Range of Lead Results (min.) - (max.)	Unit of Measure	Number of Exceedances
Plumbing	114	0 – 0.00515	mg/L	None
Distribution	14	0 – 0.00026	mg/L	None

NOTE: A result of zero indicates that the result obtained was below the method detection/reporting limit.

Summary of Organic parameters sampled during this reporting period or the most recent sample results for DISTRIBUTION samples

Parameter	Sample Date	Result Value (min.) - (max.)	Unit of Measure	Exceedance
Benzene	Jan-Dec 2021	0 – 0.1	µg/L	No
Carbon Tetrachloride	Jan-Dec 2021	0 - 0	µg/L	No
1,2-Dichlorobenzene	Jan-Dec 2021	0 - 0	µg/L	No
1,4-Dichlorobenzene	Jan-Dec 2021	0 - 0	µg/L	No
1,2-Dichloroethane	Jan-Dec 2021	0 - 0	µg/L	No
1,1-Dichloroethylene (vinylidene chloride)	Jan-Dec 2021	0 - 0	µg/L	No
Dichloromethane	Jan-Dec 2021	0 – 0	µg/L	No
Monochlorobenzene	Jan-Dec 2021	0 – 0	µg/L	No
THM (NOTE: show latest annual average)	Jan-Dec 2021	11.1	µg/L	No
Tetrachloroethylene	Jan-Dec 2021	0 – 0	µg/L	No
Trichloroethylene	Jan-Dec 2021	0 - 0	µg/L	No
Vinyl Chloride	Jan-Dec 2021	0 - 0	µg/L	No

NOTE: A result of zero indicates that the result obtained was below the method detection/reporting limit.

Summary of Organic parameters sampled during this reporting period or the most recent sample results for TRANSMISSION (SUPPLY) samples.

Parameter	Sample Date	Result Value (min.) - (max.)	Unit of Measure	Exceedance
Benzene	Jan-Dec 2021	0 – 0.1000	µg/L	No
Carbon Tetrachloride	Jan-Dec 2021	0 - 0	µg/L	No
1,2-Dichlorobenzene	Jan-Dec 2021	0 - 0	µg/L	No
1,4-Dichlorobenzene	Jan-Dec 2021	0 - 0	µg/L	No
1,2-Dichloroethane	Jan-Dec 2021	0 - 0	µg/L	No
1,1-Dichloroethylene (vinylidene chloride)	Jan-Dec 2021	0 - 0	µg/L	No
Dichloromethane	Jan-Dec 2021	0 – 0	µg/L	No
Monochlorobenzene	Jan-Dec 2021	0 – 0	µg/L	No
THM (NOTE: show latest annual average)	Jan-Dec 2021	12.7	µg/L	No
Tetrachloroethylene	Jan-Dec 2021	0 – 0	µg/L	No
Trichloroethylene	Jan-Dec 2021	0 - 0	µg/L	No
Vinyl Chloride	Jan-Dec 2021	0 - 0	µg/L	No

NOTE: A result of zero indicates that the result obtained was below the method detection/reporting limit.



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

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
NONE	N/A	N/A	N/A