



DRINKING WATER SYSTEM



Annual
Report
2017



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, 2017 to December 31, 2017

<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 []</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 []</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <table border="1" style="width: 100%;"> <tr> <td>Metro Hall 55 John Street Toronto, Ontario M5V 3C6</td> </tr> </table>	Metro Hall 55 John Street Toronto, Ontario M5V 3C6	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <table border="1" style="width: 100%; height: 20px;"> <tr> <td></td> </tr> </table> </p> <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: <table border="1" style="width: 100%; height: 20px;"> <tr> <td></td> </tr> </table> </p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []</p>		
Metro Hall 55 John Street Toronto, Ontario M5V 3C6				

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
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Describe your Drinking-Water System

Toronto Water Supply System consists of four water treatment plants, 18 pumping stations, 10 major underground storage reservoirs, four elevated storage tanks and approximately 520 kilometers of trunk watermains and 5,525 kilometers of distribution watermains.

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 410,000 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
 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 2016 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.	Settling Basin Rehabilitation	Rehabilitation of settling basins and associated equipment. Rehabilitation of cone valves and filter sluice gates.	\$10,284,060
2.	Filter Rehabilitation	Rehabilitation of first four filters (of forty) and backwash holding tanks	\$358,430

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 MOECC-SAC. "Corrective action date" is the date the location was resampled.

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
20-Nov-17	Filter operating with possibly malfunctioning turbidity meter	n/a	n/a	Remove filter from service and replace instrument	20-Nov-17

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 - 2	0 - 10	364	0 - 360
Treated	1459	1459 A (100%A)	1459 A (100%A)	1459	0 - 8

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	0.02-0.17	NTU
Chlorine	8760	1.02-2.75	mg/L
*Fluoride (If the DWS provides fluoridation)	344 (plus continuous monitoring)	0.48 – 0.71	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
August 28, 2017 Municipal Drinking Water Licence	Total Suspended Solids (Residue Management)	Jan 01-Dec 31, 2017	8.25	mg/L
	Total Chlorine (Residue Management)	Jan 01-Dec 31, 2017	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 2017	0.0002 – 0.0002	mg/L	No
Arsenic	Jan – Dec 2017	0.0007 – 0.0009	mg/L	No
Barium	Jan – Dec 2017	0.0215 – 0.0232	mg/L	No
Boron	Jan – Dec 2017	0.0226 – 0.0246	mg/L	No
Cadmium	Jan – Dec 2017	0 – 0	mg/L	No
Chromium	Jan – Dec 2017	0.0004 – 0.0007	mg/L	No
Lead	Jan – Dec 2017	0 – 0	mg/L	No
Mercury	Jan – Dec 2017	0 – 0	mg/L	No
Selenium	Jan – Dec 2017	0 – 0	mg/L	No
Sodium	Jan – Dec 2017	12.6 – 17.7	mg/L	No
Uranium	Jan – Dec 2017	0.0003 – 0.0004	mg/L	No
Nitrite	Jan – Dec 2017	0 – 0	mg/L	No
Nitrate	Jan – Dec 2017	0.26 – 0.41	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 2017	0 – 0	µg/L	No
Atrazine + N-dealkylated metabolites	Jan – Dec 2017	0.0960 – 0.1150	µg/L	No
Azinphos-methyl	Jan – Dec 2017	0 – 0	µg/L	No
Benzene	Jan – Dec 2017	0 – 0	µg/L	No
Benzo(a)pyrene	Jan – Dec 2017	0 – 0	µg/L	No
Bromoxynil	Jan – Dec 2017	0 – 0	µg/L	No
Carbaryl	Jan – Dec 2017	0 – 0	µg/L	No
Carbofuran	Jan – Dec 2017	0 – 0	µg/L	No
Carbon Tetrachloride	Jan – Dec 2017	0 – 0	µg/L	No
Chlorpyrifos	Jan – Dec 2017	0 – 0	µg/L	No
Diazinon	Jan – Dec 2017	0 – 0	µg/L	No
Dicamba	Jan – Dec 2017	0 – 0	µg/L	No
1,2-Dichlorobenzene	Jan – Dec 2017	0 – 0	µg/L	No
1,4-Dichlorobenzene	Jan – Dec 2017	0 – 0	µg/L	No
1,2-Dichloroethane	Jan – Dec 2017	0 – 0	µg/L	No
1,1-Dichloroethylene (vinylidene chloride)	Jan – Dec 2017	0 – 0	µg/L	No
Dichloromethane	Jan – Dec 2017	0 – 0	µg/L	No
2,4-Dichlorophenol	Jan – Dec 2017	0 – 0	µg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Jan – Dec 2017	0 – 0	µg/L	No
Diclofop-methyl	Jan – Dec 2017	0 – 0	µg/L	No
Dimethoate	Jan – Dec 2017	0 – 0	µg/L	No
Diquat	Jan – Dec 2017	0	µg/L	No
Diuron	Jan – Dec 2017	0 – 0	µg/L	No
Glyphosate	Jan – Dec 2017	0	µg/L	No
Malathion	Jan – Dec 2017	0 – 0	µg/L	No
Metolachlor	Jan – Dec 2017	0.0057 – 0.0075	µg/L	No
Metribuzin	Jan – Dec 2017	0 – 0	µg/L	No
Monochlorobenzene	Jan – Dec 2017	0 – 0	µg/L	No
Paraquat	Jan – Dec 2017	0	µg/L	No
Pentachlorophenol	Jan – Dec 2017	0 – 0	µg/L	No
Phorate	Jan – Dec 2017	0 – 0	µg/L	No
Picloram	Jan – Dec 2017	0 – 1.0600	µg/L	No
Polychlorinated Biphenyls(PCB)	Jan – Dec 2017	0 – 0	µg/L	No
Prometryne	Jan – Dec 2017	0 – 0	µg/L	No
Simazine	Jan – Dec 2017	0.0052 – 0.0058	µg/L	No



THM (NOTE: show latest annual average)	Jan – Dec 2017	13.93	µg/L	No
Terbufos	Jan – Dec 2017	0 – 0	µg/L	No
Tetrachloroethylene	Jan – Dec 2017	0 – 0	µg/L	No
2,3,4,6-Tetrachlorophenol	Jan – Dec 2017	0 – 0	µg/L	No
Triallate	Jan – Dec 2017	0 – 0	µg/L	No
Trichloroethylene	Jan – Dec 2017	0 – 0	µg/L	No
2,4,6-Trichlorophenol	Jan – Dec 2017	0 – 0	µg/L	No
Trifluralin	Jan – Dec 2017	0 – 0	µg/L	No
Vinyl Chloride	Jan – Dec 2017	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:	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, 2017 to December 31, 2017

<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 []</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 []</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;"> <p>Metro Hall 55 John Street Toronto, Ontario M5V 3C6</p> </div>	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <input type="text"/></p> <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: <input type="text"/></p> <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 [] No []

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

[] Public access/notice via the web
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Describe your Drinking-Water System

Toronto Water Supply System consists of four water treatment plants, 18 pumping stations, 10 major underground storage reservoirs, four elevated storage tanks and approximately 520 kilometers of trunk watermains and 5,525 kilometers of distribution watermains.

The Island Water Treatment Plant is a direct filtration water treatment plant, has a rated capacity of 410,000 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)
 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 2016 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 Residuals Management System	\$ 6,735,000
2.	Design & Construction of Flume Relining and Machine Shop Floor Structural Upgrade Design	\$ 1,207,000
3.	Design & Construction of Marine Yard Rehabilitation	\$ 729,000
4.	Design of Ammonia & Fluoride System Upgrades	\$ 266,000
5.	Design & Construction of Cross Connection Upgrades	\$ 170,000

6.	Design of Plantwide HVAC Upgrades	\$ 76,000
7.	Design & Construction of Admin Retrofits	\$ 44,000
8.	Design & Construction of Bumpless Transfer	\$ 33,000
9.	Conceptual Design of UV Disinfection	\$ 24,000
10.	Design of Filter Air Scour System	\$ 8,000
11.	Design & Construction of Chemical Systems Electrical Feed Distribution	\$ 7,000

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 MOECC-SAC. "Corrective action date" is the date the location was resampled.

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
24-Aug-17	Total Coliform	Presence	Result in 100 mL sample	Resampled. Result acceptable.	23-Aug-17
04-Oct-17	Total Coliform	Presence	Result in 100 mL sample	Resampled. Result acceptable.	02-Oct-17

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	281	0 - 7	0 - 22	280	0 - 330
Treated	1123	1123 A (100%A)	1121 A (99.8%A)	1123	0 - 20

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	6764	0.03 – 0.09	NTU
Chlorine	6764	1.11 – 2.20	mg/L
*Fluoride (If the DWS provides fluoridation)	282 (plus continuous monitoring)	0.14 – 0.80	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
7-June 2016 & 28 August 2017 Municipal Drinking Water Licence	Total Suspended Solids (Residue Management)	Jan. 1, 2017 - Dec. 31, 2017	5.9	mg/L
	Total Chlorine (Residue Management)	Jan. 1, 2017 - Dec. 31, 2017	0.0002	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 2017	0.0002 – 0.0002	mg/L	No
Arsenic	Jan – Dec 2017	0.0009 – 0.0011	mg/L	No
Barium	Jan – Dec 2017	0.0233 – 0.0239	mg/L	No
Boron	Jan – Dec 2017	0.0234 – 0.0250	mg/L	No
Cadmium	Jan – Dec 2017	0 – 0	mg/L	No
Chromium	Jan – Dec 2017	0.0004 – 0.0007	mg/L	No
Lead	Jan – Dec 2017	0 – 0	mg/L	No
Mercury	Jan – Dec 2017	0 – 0	mg/L	No
Selenium	Jan – Dec 2017	0 – 0	mg/L	No
Sodium	Jan – Dec 2017	12.3 – 15.4	mg/L	No
Uranium	Jan – Dec 2017	0.0003 – 0.0004	mg/L	No
Nitrite	Jan – Dec 2017	0 – 0	mg/L	No
Nitrate	Jan – Dec 2017	0.36 – 0.42	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 2017	0 – 0	µg/L	No
Atrazine + N-dealkylated metabolites	Jan – Dec 2017	0.0980 – 0.1150	µg/L	No
Azinphos-methyl	Jan – Dec 2017	0 – 0	µg/L	No
Benzene	Jan – Dec 2017	0 – 0	µg/L	No
Benzo(a)pyrene	Jan – Dec 2017	0 – 0	µg/L	No
Bromoxynil	Jan – Dec 2017	0 – 0	µg/L	No
Carbaryl	Jan – Dec 2017	0 – 0	µg/L	No
Carbofuran	Jan – Dec 2017	0 – 0	µg/L	No
Carbon Tetrachloride	Jan – Dec 2017	0 – 0	µg/L	No
Chlorpyrifos	Jan – Dec 2017	0 – 0	µg/L	No
Diazinon	Jan – Dec 2017	0 – 0	µg/L	No
Dicamba	Jan – Dec 2017	0 – 0	µg/L	No
1,2-Dichlorobenzene	Jan – Dec 2017	0 – 0	µg/L	No
1,4-Dichlorobenzene	Jan – Dec 2017	0 – 0	µg/L	No
1,2-Dichloroethane	Jan – Dec 2017	0 – 0	µg/L	No
1,1-Dichloroethylene (vinylidene chloride)	Jan – Dec 2017	0 – 0	µg/L	No
Dichloromethane	Jan – Dec 2017	0 – 0	µg/L	No
2-4 Dichlorophenol	Jan – Dec 2017	0 – 0	µg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Jan – Dec 2017	0 – 0	µg/L	No
Diclofop-methyl	Jan – Dec 2017	0 – 0	µg/L	No
Dimethoate	Jan – Dec 2017	0 – 0	µg/L	No
Diquat	Jan – Dec 2017	0	µg/L	No
Diuron	Jan – Dec 2017	0 – 0	µg/L	No
Glyphosate	Jan – Dec 2017	0	µg/L	No
Malathion	Jan – Dec 2017	0 – 0	µg/L	No
Metolachlor	Jan – Dec 2017	0.0060 – 0.0068	µg/L	No
Metribuzin	Jan – Dec 2017	0 – 0	µg/L	No



Monochlorobenzene	Jan – Dec 2017	0 – 0	µg/L	No
Paraquat	Jan – Dec 2017	0	µg/L	No
Pentachlorophenol	Jan – Dec 2017	0 – 0	µg/L	No
Phorate	Jan – Dec 2017	0 – 0	µg/L	No
Picloram	Jan – Dec 2017	0 – 0	µg/L	No
Polychlorinated Biphenyls (PCB)	Jan – Dec 2017	0 – 0	µg/L	No
Prometryne	Jan – Dec 2017	0 – 0	µg/L	No
Simazine	Jan – Dec 2017	0.0053 – 0.0057	µg/L	No
THM (NOTE: show latest annual average)	Jan – Dec 2017	10.85	µg/L	No
Terbufos	Jan – Dec 2017	0 – 0	µg/L	No
Tetrachloroethylene	Jan – Dec 2017	0 – 0	µg/L	No
2,3,4,6-Tetrachlorophenol	Jan – Dec 2017	0 – 0	µg/L	No
Triallate	Jan – Dec 2017	0 – 0	µg/L	No
Trichloroethylene	Jan – Dec 2017	0 – 0	µg/L	No
2,4,6-Trichlorophenol	Jan – Dec 2017	0 – 0	µg/L	No
Trifluralin	Jan – Dec 2017	0 – 0	µg/L	No
Vinyl Chloride	Jan – Dec 2017	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, 2017 to December 31, 2017

<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 []</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 []</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <table border="1" style="width: 100%;"> <tr> <td>Metro Hall 55 John Street Toronto, Ontario M5V 3C6</td> </tr> </table>	Metro Hall 55 John Street Toronto, Ontario M5V 3C6	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <table border="1" style="width: 100%; height: 20px;"> <tr> <td></td> </tr> </table> </p> <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: <table border="1" style="width: 100%; height: 20px;"> <tr> <td></td> </tr> </table> </p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []</p>		
Metro Hall 55 John Street Toronto, Ontario M5V 3C6				

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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 []

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Describe your Drinking-Water System

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The R.L. Clark Water Treatment Plant is a conventional water treatment plant, has a rated capacity of 615,000 m³/day and is located at 45 Twenty Third Street, Toronto.

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

- 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 410,000 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 2017 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.	Voice Communication Upgrade	Telephone and Paging System	\$120,000
2.	Filters Upgrade	Filter Rehabilitation Project	\$4.4 Million



3.	RMF Optimization	Residue Management Facility Upgrades	\$250,000
4.	Architectural Upgrades	Building Envelope Rehabilitation	\$1.1 Million
5.	Misc. Process Upgrades	Various plant equipment rehabilitation	\$260,000

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 MOECC-SAC. "Corrective action date" is the date the location was resampled.

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
17-Jan-17	Individual Filter Turbidity	No continuous monitoring	NTU	Equipment repaired. Enhanced alarm.	18-Jan-17
16-Feb-17	Sodium	22.8	mg/L	Resampled. Results acceptable	22-Feb-17
31-May-17	Total Coliform	Presence	Result in 100 mL sample	Resampled. Results acceptable	30-May-17
29-July-17	Coagulant	Momentary outage	N/A	Restored service	11-Aug-17

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	244	0 - 21	0 - 172	243	0 - 247
Treated	1451	1451 A (100%A)	1450 A (99.9%A)	1451	0 - 23

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	0.03 - 0.14	NTU
Chlorine	8760	1.70 – 2.46	mg/L
*Fluoride (If the DWS provides fluoridation)	287	0.47 – 0.73	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	Unit of Measure
Not Applicable	N/A	N/A	N/A	N/A

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 2017	0.0002 – 0.0002	mg/L	No
Arsenic	Jan – Dec 2017	0.0007 – 0.0010	mg/L	No
Barium	Jan – Dec 2017	0.0216 – 0.0237	mg/L	No
Boron	Jan – Dec 2017	0.0226 – 0.0254	mg/L	No
Cadmium	Jan – Dec 2017	0 – 0	mg/L	No
Chromium	Jan – Dec 2017	0.0004 – 0.0007	mg/L	No
Lead	Jan – Dec 2017	0 – 0	mg/L	No
Mercury	Jan – Dec 2017	0 – 0	mg/L	No
Selenium	Jan – Dec 2017	0 – 0	mg/L	No
Sodium	Jan – Dec 2017	12.8 – 23.9	mg/L	Yes
Uranium	Jan – Dec 2017	0.0003 – 0.0004	mg/L	No
Nitrite	Jan – Dec 2017	0 – 0	mg/L	No
Nitrate	Jan – Dec 2017	0.29 – 0.54	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 2017	0 – 0	µg/L	No
Atrazine + N-dealkylated metabolites	Jan – Dec 2017	0.0940 – 0.1260	µg/L	No
Azinphos-methyl	Jan – Dec 2017	0 – 0	µg/L	No
Benzene	Jan – Dec 2017	0 – 0	µg/L	No
Benzo(a)pyrene	Jan – Dec 2017	0 – 0	µg/L	No
Bromoxynil	Jan – Dec 2017	0 – 0	µg/L	No
Carbaryl	Jan – Dec 2017	0 – 0	µg/L	No
Carbofuran	Jan – Dec 2017	0 – 0	µg/L	No
Carbon Tetrachloride	Jan – Dec 2017	0 – 0	µg/L	No
Chlorpyrifos	Jan – Dec 2017	0 – 0	µg/L	No
Diazinon	Jan – Dec 2017	0 – 0	µg/L	No
Dicamba	Jan – Dec 2017	0 – 0	µg/L	No
1,2-Dichlorobenzene	Jan – Dec 2017	0 – 0	µg/L	No
1,4-Dichlorobenzene	Jan – Dec 2017	0 – 0	µg/L	No
1,2-Dichloroethane	Jan – Dec 2017	0 – 0	µg/L	No
1,1-Dichloroethylene (vinylidene chloride)	Jan – Dec 2017	0 – 0	µg/L	No
Dichloromethane	Jan – Dec 2017	0 – 0	µg/L	No
2-4 Dichlorophenol	Jan – Dec 2017	0 – 0	µg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Jan – Dec 2017	0 – 0	µg/L	No
Diclofop-methyl	Jan – Dec 2017	0 – 0	µg/L	No
Dimethoate	Jan – Dec 2017	0 – 0	µg/L	No
Diquat	Jan – Dec 2017	0	µg/L	No
Diuron	Jan – Dec 2017	0 – 0	µg/L	No
Glyphosate	Jan – Dec 2017	0	µg/L	No
Malathion	Jan – Dec 2017	0 – 0	µg/L	No
Metolachlor	Jan – Dec 2017	0.0062 – 0.0081	µg/L	No
Metribuzin	Jan – Dec 2017	0 – 0	µg/L	No
Monochlorobenzene	Jan – Dec 2017	0 – 0	µg/L	No



Paraquat	Jan – Dec 2017	0	µg/L	No
Pentachlorophenol	Jan – Dec 2017	0 – 0	µg/L	No
Phorate	Jan – Dec 2017	0 – 0	µg/L	No
Picloram	Jan – Dec 2017	0 – 1.0700	µg/L	No
Polychlorinated Biphenyls (PCB)	Jan – Dec 2017	0 – 0	µg/L	No
Prometryne	Jan – Dec 2017	0 – 0	µg/L	No
Simazine	Jan – Dec 2017	0.0053 – 0.0066	µg/L	No
THM (NOTE: showing latest annual average)	Jan – Dec 2017	13.77	µg/L	No
Terbufos	Jan – Dec 2017	0 – 0	µg/L	No
Tetrachloroethylene	Jan – Dec 2017	0 – 0	µg/L	No
2,3,4,6-Tetrachlorophenol	Jan – Dec 2017	0 – 0	µg/L	No
Triallate	Jan – Dec 2017	0 – 0	µg/L	No
Trichloroethylene	Jan – Dec 2017	0 – 0	µg/L	No
2,4,6-Trichlorophenol	Jan – Dec 2017	0 – 0	µg/L	No
Trifluralin	Jan – Dec 2017	0 – 0	µg/L	No
Vinyl Chloride	Jan – Dec 2017	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, 2017 to December 31, 2017

<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 []</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 []</p> <p>Location where Summary Report required under O. Reg. 170/03 Schedule 22 will be available for inspection.</p> <table border="1" style="width: 100%;"> <tr> <td>Metro Hall 55 John Street Toronto, Ontario M5V 3C6</td> </tr> </table>	Metro Hall 55 John Street Toronto, Ontario M5V 3C6	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <table border="1" style="width: 100%; height: 20px;"> <tr> <td> </td> </tr> </table> </p> <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: <table border="1" style="width: 100%; height: 20px;"> <tr> <td> </td> </tr> </table> </p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []</p>		
Metro Hall 55 John Street Toronto, Ontario M5V 3C6				

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 Water Supply System consists of four water treatment plants, 18 pumping stations, 10 major underground storage reservoirs, four elevated storage tanks and approximately 520 kilometers of trunk watermains and 5,525 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 410,000 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 - SternPAC)
 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 (Magnafloc LT 7996)

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 2016 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.	Facilities and Process Upgrades	\$581,000
2.	Replacement of MCC	\$1,627,000

3.	Treated Water Pump Replacement	\$925,000
4.	Building, Fire, Heating and Lighting Upgrades	\$44,000

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 MOECC-SAC. "Corrective action date" is the date the location was resampled.

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
NONE	NONE	NONE	NONE	NONE	NONE

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	360	0 - 2	0 - 34	359	0 - 76
Treated	1456	1456 A (100%A)	1456 A (100%A)	1456	0 - 110

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	0.05 – 0.12	NTU
Chlorine	8760	1.64 – 2.30	mg/L
*Fluoride (If the DWS provides fluoridation)	340 (plus continuous monitoring)	0.22 – 0.82	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
11-Feb-2015 & 7-June 2016 Municipal Drinking Water Licence	Total Suspended Solids (Residue Management)	Jan. 1, 2017 - Dec. 31, 2017	6.71	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 2017	0.0002 – 0.0002	mg/L	No
Arsenic	Jan – Dec 2017	0.0009 – 0.0010	mg/L	No
Barium	Jan – Dec 2017	0.0217 – 0.0276	mg/L	No
Boron	Jan – Dec 2017	0.0232 – 0.0247	mg/L	No
Cadmium	Jan – Dec 2017	0 – 0	mg/L	No
Chromium	Jan – Dec 2017	0.0004 – 0.0007	mg/L	No
Lead	Jan – Dec 2017	0 – 0.0001	mg/L	No
Mercury	Jan – Dec 2017	0 – 0	mg/L	No
Selenium	Jan – Dec 2017	0 – 0	mg/L	No
Sodium	Jan – Dec 2017	12.5 – 17.0	mg/L	No
Uranium	Jan – Dec 2017	0.0003 – 0.0004	mg/L	No
Nitrite	Jan – Dec 2017	0 – 0	mg/L	No
Nitrate	Jan – Dec 2017	0.29 – 0.46	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 2017	0 – 0	µg/L	No
Atrazine + N-dealkylated metabolites	Jan – Dec 2017	0.0630 – 0.0830	µg/L	No
Azinphos-methyl	Jan – Dec 2017	0 – 0	µg/L	No
Benzene	Jan – Dec 2017	0 – 0	µg/L	No
Benzo(a)pyrene	Jan – Dec 2017	0 – 0	µg/L	No
Bromoxynil	Jan – Dec 2017	0 – 0	µg/L	No
Carbaryl	Jan – Dec 2017	0 – 0	µg/L	No
Carbofuran	Jan – Dec 2017	0 – 0	µg/L	No
Carbon Tetrachloride	Jan – Dec 2017	0 – 0	µg/L	No
Chlorpyrifos	Jan – Dec 2017	0 – 0	µg/L	No
Diazinon	Jan – Dec 2017	0 – 0	µg/L	No
Dicamba	Jan – Dec 2017	0 – 0	µg/L	No
1,2-Dichlorobenzene	Jan – Dec 2017	0 – 0	µg/L	No
1,4-Dichlorobenzene	Jan – Dec 2017	0 – 0	µg/L	No
1,2-Dichloroethane	Jan – Dec 2017	0 – 0	µg/L	No
1,1-Dichloroethylene (vinylidene chloride)	Jan – Dec 2017	0 – 0	µg/L	No
Dichloromethane	Jan – Dec 2017	0 – 0	µg/L	No
2-4 Dichlorophenol	Jan – Dec 2017	0 – 0	µg/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	Jan – Dec 2017	0 – 0	µg/L	No
Diclofop-methyl	Jan – Dec 2017	0 – 0	µg/L	No
Dimethoate	Jan – Dec 2017	0 – 0	µg/L	No
Diquat	Jan – Dec 2017	0	µg/L	No
Diuron	Jan – Dec 2017	0 – 0	µg/L	No
Glyphosate	Jan – Dec 2017	0	µg/L	No
Malathion	Jan – Dec 2017	0 – 0	µg/L	No
Metolachlor	Jan – Dec 2017	0.0021 – 0.0049	µg/L	No
Metribuzin	Jan – Dec 2017	0 – 0	µg/L	No
Monochlorobenzene	Jan – Dec 2017	0 – 0	µg/L	No
Paraquat	Jan – Dec 2017	0	µg/L	No
Pentachlorophenol	Jan – Dec 2017	0 – 0	µg/L	No
Phorate	Jan – Dec 2017	0 – 0	µg/L	No
Picloram	Jan – Dec 2017	0 – 0.8021	µg/L	No
Polychlorinated Biphenyls(PCB)	Jan – Dec 2017	0 – 0	µg/L	No
Prometryne	Jan – Dec 2017	0 – 0	µg/L	No
Simazine	Jan – Dec 2017	0.0015 – 0.0029	µg/L	No



THM (NOTE: show latest annual average)	Jan – Dec 2017	7.53	µg/L	No
Terbufos	Jan – Dec 2017	0 – 0	µg/L	No
Tetrachloroethylene	Jan – Dec 2017	0 – 0	µg/L	No
2,3,4,6-Tetrachlorophenol	Jan – Dec 2017	0 – 0	µg/L	No
Triallate	Jan – Dec 2017	0 – 0	µg/L	No
Trichloroethylene	Jan – Dec 2017	0 – 0	µg/L	No
2,4,6-Trichlorophenol	Jan – Dec 2017	0 – 0	µg/L	No
Trifluralin	Jan – Dec 2017	0 – 0	µg/L	No
Vinyl Chloride	Jan – Dec 2017	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, 2017 to December 31, 2017

<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> <table border="1" style="width: 100%;"> <tr> <td>Metro Hall 55 John Street Toronto, Ontario M5V 3C6</td> </tr> </table>	Metro Hall 55 John Street Toronto, Ontario M5V 3C6	<p><u>Complete for all other Categories.</u></p> <p>Number of Designated Facilities served: <table border="1" style="width: 100%; height: 20px;"> <tr> <td></td> </tr> </table> </p> <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: <table border="1" style="width: 100%; height: 20px;"> <tr> <td></td> </tr> </table> </p> <p>Did you provide a copy of your annual report to all Interested Authorities you report to for each Designated Facility? Yes [] No []</p>		
Metro Hall 55 John Street Toronto, Ontario M5V 3C6				

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, 10 major underground storage reservoirs, four elevated storage tanks and approximately 540 kilometers of trunk watermains and 5,525 kilometers of distribution watermains.

Working from eight facilities across the city, District Operations staff inspects, operate and maintain the existing water distribution and wastewater collection systems as well as stormwater management facilities.

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 410,000 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 2017 and do not represent the total project costs. These numbers do not include normal operating and maintenance costs.

Distribution System:

Watermain Replacement	\$ 71 million
Water Service Replacement	\$ 25 million
Watermain Rehabilitation	\$ 74 million

Water Supply:

Cast Iron Trunk Main Replacement	\$ 13 million
Transmission Facility Rehabilitation	\$ 6 million (Pumping Stations, Reservoirs)
Transmission Main Rehabilitation	\$ 0.5 million

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 MOECC-SAC. "Corrective action date" is the date the location was resampled.

Incident Date	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date
07-Jan-17	E. Coli / Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable.	07-Jan-17
12-Jan-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	12-Jan-17
14-Jan-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	14-Jan-17
14-Jan-17	E. Coli / Total Coliform	Presence	Result in 100 mL sample	Resampled. Results Acceptable	14-Jan-17
16-Jan-17	Total Coliform	17	cfu per 100 mL	Resampled. Results Acceptable	16-Jan-17
17-Jan-17	Total Coliform	44	cfu per 100 mL	Resampled. Results Acceptable	17-Jan-17
17-Jan-17	Total Coliform	39	cfu per 100 mL	Resampled. Results Acceptable	17-Jan-17
18-Jan-17	Total Coliform	2	cfu per 100 mL	Resampled. Results Acceptable	17-Jan-17
18-Jan-17	Total Coliform	2	cfu per 100 mL	Resampled. Results Acceptable	17-Jan-17
25-Jan-17	E. Coli / Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	25-Jan-17
27-Jan-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	27-Jan-17
30-Jan-17	Total Coliform	1	cfu per 100 mL	Flushed watermain and resampled. Results Acceptable	31-Jan-17
05-Feb-17	E. Coli / Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	05-Feb-17
10-Feb-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	10-Feb-17



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25-Feb-17	E. Coli / Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	25-Feb-17
23-Mar-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	23-Mar-17
27-Apr-17	Total Chlorine	<0.25	mg/L	Flushed watermain and resampled. Results Acceptable	28/Apr-17
27-May-17	E. Coli / Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	27-May-17
01-Jun-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	02-Jun-17
09-Jun-17	Total Chlorine	>3.0	mg/L	Analyzer calibrated. Resampled. Results Acceptable	09-Jun-17
15-Jun-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	16-Jun-17
22-Jun-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	22-Jun-17
26-Jun-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	26-Jun-17
29-Jun-17	Total Chlorine	< 0.25	mg/L	Flushed watermain and resampled. Results Acceptable	30-Jun-17
29-Jun-17	Total Chlorine	< 0.25	mg/L	Flushed watermain and resampled. Results Acceptable	30-Jun-17
08-Jul-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	10-Jul-17
12-Jul-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	12-Jul-17
14-Jul-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	14-Jul-17
16-Jul-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	17-Jul-17
30-Jul-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	01-Aug-17
31-Jul-17	Lead	>10	ug/L	Water service replaced	09-Aug-17



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

31-Jul-17	Lead	>10	ug/L	Water service replaced	09-Aug-17
13-Aug-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	14-Aug-17
16-Aug-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	16-Aug-17
16-Aug-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	16-Aug-17
20-Aug-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	21-Aug-17
23-Aug-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled.	23-Aug-17
23-Aug-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	23-Aug-17
23-Aug-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	23-Aug-17
23-Aug-17	Total Coliform	1	cfu per 100 mL	Flushed watermain and resampled. Results Acceptable	23-Aug-17
23-Aug-17	Total Chlorine	>3.0	mg/L	Analyzer calibrated. Resampled. Results Acceptable	28-Aug-17
24-Aug-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled.	24-Aug-17
24-Aug-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled.	25-Aug-17
25-Aug-17	Total Coliform	1	cfu per 100 mL	Flushed watermain and resampled.	25-Aug-17
26-Aug-17	Total Coliform	11	cfu per 100 mL	Flushed watermain and resampled.	28-Aug-17
26-Aug-17	Total Coliform	6	cfu per 100 mL	Flushed watermain and resampled.	28-Aug-17
27-Aug-17	Total Coliform	1	cfu per 100 mL	Flushed watermain and resampled. Results Acceptable	28-Aug-17
30-Aug-17	Total Coliform	16	cfu per 100 mL	Flushed watermain and resampled. Results Acceptable	30-Aug-17
30-Aug-17	Total Coliform	19	cfu per 100 mL	Flushed watermain and resampled. Results Acceptable	30-Aug-17
30-Aug-17	Total Coliform	18	cfu per 100 mL	Flushed watermain and resampled.	30-Aug-17



31-Aug-17	E.coli / Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled.	31-Aug-17
31-Aug-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	31-Aug-17
02-Sep-17	Total Coliform	3	cfu per 100 mL	Flushed watermain and resampled.	01-Sep-17
03-Sep-17	Total Coliform	7	cfu per 100 mL	Flushed watermain and resampled.	02-Sep-17
04-Sep-17	Total Coliform	1	cfu per 100 mL	Flushed watermain and resampled.	05-Sep-17
07-Sep-17	Total Coliform	2	cfu per 100 mL	Flushed watermain and resampled.	07-Sep-17
09-Sep-17	Total Coliform	1	cfu per 100 mL	Flushed watermain and resampled. Results Acceptable	08-Sep-17
10-Sep-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	11-Sep-17
13-Sep-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	14-Sep-17
17-Sep-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	18-Sep-17
22-Sep-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	22-Sep-17
24-Sep-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	25-Sep-17
24-Sep-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	25-Sep-17
27-Sep-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled.	27-Sep-17
27-Sep-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	27-Sep-17
27-Sep-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	28-Sep-17
27-Sep-17	Total Coliform	2	cfu per 100 mL	Flushed watermain and resampled. Results Acceptable	29-Sep-17
28-Sep-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	28-Sep-17
01-Oct-17	Total Coliform	1	cfu per 100 mL	Flushed watermain and resampled	01-Oct-17
03-Oct-17	Total Coliform	1	cfu per 100 mL	Flushed watermain and resampled. Results Acceptable	03-Oct-17
05-Oct-17	Total Coliform	1	cfu per 100 mL	Flushed watermain and resampled. Results Acceptable	05-Oct-17
07-Oct-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	10-Oct-17
08-Oct-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	10-Oct-17
16-Oct-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled.	17-Oct-17



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17-Oct-17	Total Coliform	4	cfu per 100 mL	Flushed watermain and resampled.	20-Oct-17
19-Oct-17	Total Coliform	1	cfu per 100 mL	Flushed watermain and resampled.	20-Oct-17
19-Oct-17	Total Coliform	1	cfu per 100 mL	Flushed watermain and resampled.	20-Oct-17
20-Oct-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	20-Oct-17
22-Oct-17	Total Coliform	1	cfu per 100 mL	Flushed watermain and resampled. Results Acceptable	22-Oct-17
22-Oct-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	23-Oct-17
25-Oct-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	26-Oct-17
25-Oct-17	Total Coliform	1	cfu per 100 mL	Flushed watermain and resampled.	26-Oct-17
25-Oct-17	Total Coliform	1	cfu per 100 mL	Flushed watermain and resampled.	30-Oct-17
27-Oct-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	27-Oct-17
28-Oct-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	29-Oct-17
28-Oct-17	Total Coliform	1	cfu per 100 mL	Flushed watermain and resampled. Results Acceptable	27-Oct-17
28-Oct-17	Total Coliform	1	cfu per 100 mL	Flushed watermain and resampled. Results Acceptable	30-Oct-17
28-Oct-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	31-Oct-17
28-Oct-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled.	30-Oct-17
01-Nov-17	Total Coliform	11	cfu per 100 mL	Flushed watermain and resampled.	02-Nov-17
01-Nov-17	Total Coliform	2	cfu per 100 mL	Flushed watermain and resampled.	02-Nov-17
03-Nov-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled.	04-Nov-17
04-Nov-17	Total Coliform	31	cfu per 100 mL	Flushed watermain and resampled.	03-Nov-17
04-Nov-17	Total Coliform	2	cfu per 100 mL	Flushed watermain and resampled.	03-Nov-17
04-Nov-17	Total Coliform	1	cfu per 100 mL	Flushed watermain and resampled.	03-Nov-17
05-Nov-17	Total Coliform	3	cfu per 100 mL	Flushed watermain and resampled.	06-Nov-17
05-Nov-17	Total Coliform	2	cfu per 100 mL	Flushed watermain and resampled.	06-Nov-17
05-Nov-17	Total Coliform	2	cfu per 100 mL	Flushed watermain and resampled.	06-Nov-17
08-Nov-17	Total Coliform	1	cfu per 100 mL	Flushed watermain and resampled.	09-Nov-17



08-Nov-17	Total Coliform	3	cfu per 100 mL	Flushed watermain and resampled.	09-Nov-17
08-Nov-17	Total Coliform	6	cfu per 100 mL	Flushed watermain and resampled. Results Acceptable	09-Nov-17
08-Nov-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled.	09-Nov-17
08-Nov-17	Total Coliform	1	cfu per 100 mL	Flushed watermain and resampled.	09-Nov-17
08-Nov-17	Total Coliform	7	cfu per 100 mL	Flushed watermain and resampled. Results Acceptable	10-Nov-17
10-Nov-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	10-Nov-17
10-Nov-17	Total Coliform	1	cfu per 100 mL	Flushed watermain and resampled.	10-Nov-17
10-Nov-17	Total Coliform	2	cfu per 100 mL	Flushed watermain and resampled.	10-Nov-17
10-Nov-17	Total Coliform	2	cfu per 100 mL	Flushed watermain and resampled.	10-Nov-17
11-Nov-17	Total Coliform	10	cfu per 100 mL	Flushed watermain and resampled.	11-Nov-17
11-Nov-17	Total Coliform	6	cfu per 100 mL	Flushed watermain and resampled.	11-Nov-17
11-Nov-17	Total Coliform	18	cfu per 100 mL	Flushed watermain and resampled. Results Acceptable	11-Nov-17
12-Nov-17	Total Coliform	2	cfu per 100 mL	Flushed watermain and resampled.	12-Nov-17
14-Nov-17	Total Coliform	5	cfu per 100 mL	Flushed watermain and resampled.	13-Nov-17
14-Nov-17	Total Coliform	1	cfu per 100 mL	Flushed watermain and resampled.	13-Nov-17
14-Nov-17	Total Coliform	12	cfu per 100 mL	Flushed watermain and resampled.	13-Nov-17
14-Nov-17	Total Coliform	5	cfu per 100 mL	Flushed watermain and resampled.	13-Nov-17
15-Nov-17	Total Coliform	4	cfu per 100 mL	Flushed watermain and resampled. Results Acceptable	16-Nov-17
15-Nov-17	Total Coliform	10	cfu per 100 mL	Flushed watermain and resampled.	14-Nov-17
15-Nov-17	Total Coliform	4	cfu per 100 mL	Flushed watermain and resampled.	14-Nov-17
15-Nov-17	Total Coliform	2	cfu per 100 mL	Flushed watermain and resampled. Results Acceptable	16-Nov-17
16-Nov-17	Total Coliform	NDOGT	cfu per 100 mL	Flushed watermain and resampled. Results Acceptable	16-Nov-17
16-Nov-17	Total Coliform	6	cfu per 100 mL	Flushed watermain and resampled. Results Acceptable	16-Nov-17
16-Nov-17	Total Coliform	3	cfu per 100 mL	Flushed watermain and resampled. Results Acceptable	16-Nov-17
16-Nov-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	16-Nov-17

19-Nov-17	Total Coliform	1	cfu per 100 mL	Flushed watermain and resampled.	20-Nov-17
19-Nov-17	Total Coliform	9	cfu per 100 mL	Flushed watermain and resampled. Results Acceptable	20-Nov-17
03-Dec-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	04-Dec-17
13-Dec-17	Total Chlorine – analyzer reading	<0.25	mg/L	Electrical problem fixed and analyzer calibrated. Grab sample results acceptable.	13-Dec-17
14-Dec-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	14-Dec-17
15-Dec-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	15-Dec-17
20-Dec-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	21-Dec-17
20-Dec-17	Total Coliform	Presence	Result in 100 mL sample	Flushed watermain and resampled. Results Acceptable	21-Dec-17

NOTE: Result of **NDOGT** means "No Data – Overgrown – Target identified"

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	3763	3760A (99.92% A)	3756A (99.81% A)	3763	0 - 5000
Transmission	1204	1201A (99.75% A)	1201A (99.75% A)	1204	0 - 3000
Main Work	1442	1441A (99.93% A)	1390A (96.39% A)	1442	0 - 5970
Resample and vicinity	396	396 (100% Compliance)	334(84.34% Compliance) (0) – (44) 1 NDOGT	396	0 - 2900

***NOTE:** "Distribution" includes samples submitted for Water Quality Inquiry as well as distribution samples. Result of **NDOGT** means "No Data – Overgrown – Target identified"

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	3763	<0.1 – 9.50 NTU
Chlorine	3763	<0.25 – 2.42 mg/L

For Transmission

	Number of Grab Samples	Range of Results (min.) - (max.)
Turbidity	1208	<0.1 – 3.96 NTU
Chlorine	1209	0.48 – 3.43 mg/L

For Main Work

	Number of Grab Samples	Range of Results (min.) - (max.)
Turbidity	1453	0.02 – 3.36 NTU
Chlorine	1453	0.63 – 2.20 mg/L

For Resample/Vicinity

	Number of Grab Samples	Range of Results (min.) - (max.)
Turbidity	410	<0.1 – 3.99 NTU
Chlorine	411	<0.25 – 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.

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

Parameter	Sample Date	Result Value (min.) - (max.)	Unit of Measure	Exceedance
Sodium	Jan-Dec 2017	12.5 – 19.3	mg/L	No
Nitrite	Jan-Dec 2017	0 – 0.003	mg/L	No
Nitrate	Jan-Dec 2017	0.25 – 0.54	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	55	<0.00005 – 0.0732	mg/L	2
Distribution	10	<0.00005 – 0.00085	mg/L	None

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 2017	0 - 0	mg/L	No
Carbon Tetrachloride	Jan-Dec 2017	0 - 0	mg/L	No
1,2-Dichlorobenzene	Jan-Dec 2017	0 - 0	mg/L	No
1,4-Dichlorobenzene	Jan-Dec 2017	0 - 0	mg/L	No
1,2-Dichloroethane	Jan-Dec 2017	0 - 0	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	Jan-Dec 2017	0 - 0	mg/L	No
Dichloromethane	Jan-Dec 2017	0 - 0	mg/L	No
Monochlorobenzene	Jan-Dec 2017	0 - 0	mg/L	No
THM (NOTE: show latest annual average)	Jan-Dec 2017	13.58	mg/L	No
Tetrachloroethylene	Jan-Dec 2017	0 - 0	mg/L	No
Trichloroethylene	Jan-Dec 2017	0 - 0	mg/L	No
Vinyl Chloride	Jan-Dec 2017	0 - 0	mg/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 2017	0 - 0	mg/L	No
Carbon Tetrachloride	Jan-Dec 2017	0 - 0	mg/L	No
1,2-Dichlorobenzene	Jan-Dec 2017	0 - 0	mg/L	No
1,4-Dichlorobenzene	Jan-Dec 2017	0 - 0	mg/L	No
1,2-Dichloroethane	Jan-Dec 2017	0 - 0	mg/L	No
1,1-Dichloroethylene (vinylidene chloride)	Jan-Dec 2017	0 - 0	mg/L	No
Dichloromethane	Jan-Dec 2017	0 - 0	mg/L	No
Monochlorobenzene	Jan-Dec 2017	0 - 0	mg/L	No
THM (NOTE: show latest annual average)	Jan-Dec 2017	12.72	mg/L	No
Tetrachloroethylene	Jan-Dec 2017	0 - 0	mg/L	No
Trichloroethylene	Jan-Dec 2017	0 - 0	mg/L	No
Vinyl Chloride	Jan-Dec 2017	0 - 0	mg/L	No

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



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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
NONE	NONE	NONE	NONE