2019 Summary Report
Toronto (R.C. Harris) Water Treatment Plant

Contents:

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2.0 System Approval
3.0 MECP Inspections
4.0 Compliance with Terms and Conditions of System Approval and Any Other Orders
5.0 Summary – Water Production
6.0 City of Toronto Endorsement of Summary Report
7.0 Contacts

February 10th, 2020
1.0 General Overview

Toronto Water treats, transmits, stores and distributes potable (drinkable) water to all industrial, commercial and household water users in the City of Toronto. The division also delivers water to the southern portion of the Region of York.

Staff in this area are highly trained and specialized, operating four water treatment plants, two laboratories, 18 pumping stations, 10 major underground storage reservoirs, and four elevated storage tanks. Staff maintains about 520 kilometres of trunk watermains that supply the water reservoirs and over 5,551 kilometres of local distribution mains. Policies and practices adopted by the section help the unit to manage significant issues and challenges, including meeting water demands throughout the year, complying with provincial regulations and working responsibly to protect the environment and local water bodies.

This Summary Report is issued by Toronto Water under Schedule 22-2, O. Reg. 170/03 for the R.C. Harris Water Treatment Plant. The report covers the period from January 1, 2019 to December 31, 2019 except where stated otherwise.

2.0 System Approval

The City of Toronto is the operating authority of the Toronto Drinking Water System and has demonstrated through accreditation (most recent Certificate of Accreditation dated January 30, 2018) by an independent third party, that the Toronto Water Quality Management System meets the requirements of the Drinking Water Quality Management Standard and the Safe Drinking Water Act, 2002, and is managed in a planned and systematic manner.

The latest version of the City of Toronto Municipal Drinking Water Licence was issued on May 3, 2019 by the Ontario Ministry of Environment, Conservation and Parks. Licence Number: 010-101, Issue Number: 10

The latest version of the City of Toronto Municipal Drinking Water Permit was issued on January 3, 2019 by the Ontario Ministry of Environment, Conservation and Parks. Permit Number: 010-201, Issue Number: 6

The R.C. Harris Water Treatment Plant is designated a Class 4 Water Treatment Facility (Certificate No. 445) and is referenced as Drinking Water System Number 220002262.

The newest Permit to Take Water is designated by MECP Reference Number 0726-A6QJTA issued on March 23rd, 2016.
3.0 MECP Inspections

The Ministry of the Environment, Conservation & Parks (MECP) has implemented a rigorous and comprehensive Province-wide approach for the inspection of water systems that focuses on the source, treatment and distribution components as well as water system management practices.

The primary focus of such inspections has been to confirm compliance with provincial legislation and control documents, as well as conformance with MECP drinking-water related policies for the inspection period.

The MECP conducted one (1) announced plant inspection of the R. C. Harris Water Treatment Plant during 2019. The site inspection was carried out at the R. C. Harris on June 28, 2019.

Specifically, the inspection included a review and assessment of operating practices in relation to the following documents:

- Safe Drinking Water Act, 2002
- Drinking Water Systems Regulation (O. Reg. 170/03)
- Ontario Drinking Water Quality Standards (O. Reg. 169/03)
- Operator Certification Regulation (O. Reg. 128/04)
- Municipal Drinking Water Licence (#010-101)
- Drinking Water Works Permit (#010-201)
- Permit to Take Water
- Director’s Orders and/or Provincial Officer’s Orders (if any)
- A Review of previous Ministry Inspection Reports

4.0 Compliance with Terms and Conditions of System Approval and Any Other Orders

Plant production was fully compliant with the Permit to Take Water and at no time during the year 2019 did Raw Water flows exceed the maximum values stipulated in the Permit to Take Water.

Water production rates at the R.C. Harris Water Treatment Plant in 2019 were fully compliant with the Municipal Drinking Water Licence.

Residue Management operated on a continuous basis. The quality of the process residuals was in compliance with requirements cited in the Municipal Drinking Water Licence. The annual average concentration of total suspended solids (TSS) in the effluent discharged from the plant thickeners was 6.67 mg/L and average Total Chlorine was 0 mg/L.

All plant production fully conformed to the “Procedure for Disinfection of Drinking Water in Ontario” as referenced by O. Reg. 170/03. Routine operation and maintenance on all critical process equipment was carried out and flow meter calibrations were completed as per manufacturer's recommendations.

One incidence of non-compliance dating back to 2017 was identified during the 2018 MECP annual Drinking Water inspection, however no further action was required. This incident was not
captured in the 2018 Summary Report, however the 2019 Inspection Report contained a recommendation to report this incident in the 2019 Summary Report.

Ontario Regulation 170/03 requires the continuous monitoring of turbidity on each individual filter effluent line. On November 20, 2017 a suspected malfunctioning turbidity meter was identified on one filter and immediately removed from service. A report was made to SAC and the Toronto Public Health Unit. Corrective action was taken prior to returning the filter to service and further steps taken to prevent reoccurrence.

5.0 Summary – Water Production

**Monthly Average Output Water Flows for 2019**
(As Conveyed to the Distribution System)

<table>
<thead>
<tr>
<th>Month</th>
<th>Average Daily Volume (m³/day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>359,000</td>
</tr>
<tr>
<td>February</td>
<td>537,000</td>
</tr>
<tr>
<td>March</td>
<td>350,000</td>
</tr>
<tr>
<td>April</td>
<td>320,000</td>
</tr>
<tr>
<td>May</td>
<td>318,000</td>
</tr>
<tr>
<td>June</td>
<td>299,000</td>
</tr>
<tr>
<td>July</td>
<td>303,000</td>
</tr>
<tr>
<td>August</td>
<td>305,000</td>
</tr>
<tr>
<td>September</td>
<td>294,000</td>
</tr>
<tr>
<td>October</td>
<td>298,000</td>
</tr>
<tr>
<td>November</td>
<td>282,000</td>
</tr>
<tr>
<td>December</td>
<td>271,000</td>
</tr>
</tbody>
</table>

NOTE: Non-production days not included in monthly average daily volume. R.C. Harris was out of service for 34 days in 2019 for maintenance and rehabilitation.

**Annual Daily Volume and Capacity Assessment for 2019**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Daily Flow</td>
<td>332,000 m³/day*</td>
</tr>
</tbody>
</table>
| Maximum Day Flow (and Date Occurred)| 586,000 m³  
|                                     | February 10, 2019      |
| Rated Capacity                       | 950,000 m³/day         |
| Highest Capacity Used                | 61.7 %                 |

*Average daily flow when plant in operation. R.C. Harris was out of service for 34 days in 2019 for maintenance and rehabilitation.
6.0 City of Toronto Endorsement of Summary Report

This Summary Report has been signed off by Lou Di Gironimo, General Manager of Toronto Water, on behalf of the City of Toronto Council.

A copy of this report has been forwarded to the members of the City Council in 2020 as per regulatory requirements.

7.0 Contacts

While all efforts have been made to provide the required information in the proper format and degree of detail, it is acknowledged that additional information and/or detail may be required.

For additional information or inquiries, please contact customer service by phone at 311 or by email (311@toronto.ca).
2019 Summary Report
Toronto (Island) Water Treatment Plant

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February 10th, 2020
1.0 General Overview

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Staff in this area are highly trained and specialized, operating four water treatment plants, two laboratories, 18 pumping stations, 11 major underground storage reservoirs, and four elevated storage tanks. Staff maintains about 540 kilometres of trunk watermains that supply the water reservoirs and over 5,551 kilometres of local distribution mains. Policies and practices adopted by the section help the unit to manage significant issues and challenges, including meeting water demands throughout the year, complying with provincial regulations and working responsibly to protect the environment and local water bodies.

This Summary Report is issued by Toronto Water under Schedule 22-2, O. Reg. 170/03 for the Island Water Treatment Plant. The report covers the period from January 1, 2019 to December 31, 2019 except where stated otherwise.

2.0 System Approval

The City of Toronto is the operating authority of the Toronto Drinking Water System and has demonstrated through accreditation (most recent Certificate of Accreditation dated January 15, 2019) by an independent third party, that the Toronto Water Quality Management System meets the requirements of the Drinking Water Quality Management Standard and the Safe Drinking Water Act, 2002, and is managed in a planned and systematic manner.

The latest version of the City of Toronto Municipal Drinking Water Licence was issued on May 3, 2019 by the Ontario Ministry of Environment, Conservation and Parks. Licence Number: 010-101, Issue Number: 10

The latest version of the City of Toronto Municipal Drinking Water Permit was issued on May 3, 2019 by the Ontario Ministry of Environment, Conservation and Parks. Permit Number: 010-201, Issue Number: 6

The Island Water Treatment Plant is designated a Class 4 Water Treatment Facility (Certificate No. 443) and is referenced as Drinking Water System Number 220002244.

The newest Permit to Take Water is designated by MECP Reference Number 1866-A6QHRP issued on March 23rd, 2016.
3.0 MECP Inspections

The Ministry of the Environment, Conservation & Parks (MECP) has implemented a rigorous and comprehensive Province-wide approach for the inspection of water systems that focuses on the source, treatment and distribution components as well as water system management practices.

The primary focus of such inspections has been to confirm compliance with provincial legislation and control documents, as well as conformance with MECP drinking-water related policies for the inspection period.

The MECP conducted one (1) plant inspection of the Island Water Treatment Plant during 2019. The announced site inspection was carried out on October 24, 2019.

Specifically, the inspection included a review and assessment of operating practices in relation to the following documents:

- Safe Drinking Water Act, 2002
- Drinking Water Systems Regulation (O. Reg. 170/03)
- Ontario Drinking Water Quality Standards (O. Reg. 169/03)
- Operator Certification Regulation (O. Reg. 128/04)
- Municipal Drinking Water Licence (#010-101)
- Drinking Water Works Permit (#010-201)
- Permit to Take Water
- Director’s Orders and/or Provincial Officer’s Orders (if any)
- A Review of previous Ministry Inspection Reports.

4.0 Compliance with Terms and Conditions of System Approval and Any Other Orders

Plant production was fully compliant with the Permit to Take Water and at no time during the year 2019 did Raw Water flows exceed the maximum values stipulated in the Permit to Take Water.

Water production rates at the Island Water Treatment Plant in 2019 were fully compliant with the Municipal Drinking Water Licence.

All plant production fully conformed to the “Procedure for Disinfection of Drinking Water in Ontario” as referenced by O. Reg. 170/03. Routine operation and maintenance on all critical process equipment was carried out and flow meter calibrations were completed as per manufacturer’s recommendations.

The Residue Management Facility (RMF) settling tanks operated on a continuous basis.

As of February 22, 2019, the Total Suspended Solids (TSS) limit for RMF effluent changed from an annual average concentration to a monthly average concentration. From January 1, 2019 to February 22, 2019, the annual average concentration of TSS in the effluent discharged from the Plant's slow sand filters was 2.6 mg/L. Starting February 22, 2019, the monthly average
The concentration of TSS was as follows:

<table>
<thead>
<tr>
<th>Month</th>
<th>Average TSS (mg/L)</th>
</tr>
</thead>
<tbody>
<tr>
<td>February 21-28</td>
<td>1.8</td>
</tr>
<tr>
<td>March</td>
<td>4.0</td>
</tr>
<tr>
<td>April</td>
<td>3.1</td>
</tr>
<tr>
<td>May</td>
<td>3.2</td>
</tr>
<tr>
<td>June</td>
<td>2.9</td>
</tr>
<tr>
<td>July</td>
<td>2.1</td>
</tr>
<tr>
<td>August</td>
<td>1.8</td>
</tr>
<tr>
<td>September</td>
<td>1.8</td>
</tr>
<tr>
<td>October</td>
<td>3.1</td>
</tr>
<tr>
<td>November</td>
<td>3.8</td>
</tr>
<tr>
<td>December</td>
<td>5.7</td>
</tr>
</tbody>
</table>

The quality of the process residuals was in compliance with the requirements cited in the Drinking Water Licence.

Similarly, as of February 22, 2019, for RMF effluent, the Total Chlorine Residual limit changed from an annual average to a maximum concentration of 0.02 mg/L (120-min average concentration of all 5-min averaged samples) or 0.2 mg/L (single 5-min averaged sample) as applicable. From January 1, 2019 to February 21, 2019, the average concentration of Total Chlorine Residual was 0.006 mg/L. The quality of the process residuals was in compliance with the requirements cited in the Drinking Water Licence. Starting February 22, 2019, new Total Chlorine Residual limits came into effect in the Drinking Water Licence for the Island WTP. Under these new limits, two minor exceedances occurred: i) February 22, 2019 had one single sample of 0.21 mg/L Total Chlorine Residual, and ii) March 2, 2019 had a running 120-min average of all 5-min averaged samples of 0.022 mg/L Total Chlorine Residual. These two instances were reported to the MECP during the 2019 annual inspection but were not flagged as Non-Compliances.

5.0 Summary – Water Production

**Monthly Average Output Water Flows for 2019**
*(As Conveyed to the Distribution System)*

<table>
<thead>
<tr>
<th>Month</th>
<th>Average Daily Volume (m³/day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>268,853 *</td>
</tr>
<tr>
<td>February</td>
<td>0 *</td>
</tr>
<tr>
<td>March</td>
<td>264,571 *</td>
</tr>
<tr>
<td>April</td>
<td>277,638</td>
</tr>
<tr>
<td>May</td>
<td>308,488</td>
</tr>
<tr>
<td>June</td>
<td>352,142</td>
</tr>
<tr>
<td>July</td>
<td>375,791</td>
</tr>
<tr>
<td>August</td>
<td>370,820</td>
</tr>
<tr>
<td>Month</td>
<td>Value</td>
</tr>
<tr>
<td>----------</td>
<td>--------</td>
</tr>
<tr>
<td>September</td>
<td>360,526</td>
</tr>
<tr>
<td>October</td>
<td>322,193</td>
</tr>
<tr>
<td>November</td>
<td>305,095</td>
</tr>
<tr>
<td>December</td>
<td>298,000</td>
</tr>
</tbody>
</table>

*Island Water Treatment Plant shut-down for maintenance for at least part of the period. NOTE: Non-production days not included in monthly average daily volume.

### Annual Daily Volume and Capacity Assessment for 2019

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Daily Flow</td>
<td>320,551 m$^3$/day</td>
</tr>
<tr>
<td>Maximum Day Flow (and Date Occurred)</td>
<td>395,980 m$^3$ (July 18, 2019)</td>
</tr>
<tr>
<td>Rated Capacity</td>
<td>410,000 m$^3$/day</td>
</tr>
<tr>
<td>Highest Capacity Used</td>
<td>97 %</td>
</tr>
</tbody>
</table>

### 6.0 City of Toronto Endorsement of Summary Report

This Summary Report has been signed off by Lou Di Gironimo, General Manager of Toronto Water on behalf of the City of Toronto Council.

A copy of this report has been forwarded to the members of the City Council in 2020 as per regulatory requirements.

### 7.0 Contacts

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For additional information or inquiries, please contact customer service by phone at 311 or by email (311@toronto.ca).
2019 Summary Report
Toronto (R. L. Clark) Water Treatment Plant

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February 10th, 2020
1.0 General Overview

Toronto Water treats, transmits, stores and distributes potable (drinkable) water to all industrial, commercial and household water users in the City of Toronto. The division also delivers water to the southern portion of the Region of York.

Staff in this area are highly trained and specialized, operating four water treatment plants, two laboratories, 18 pumping stations, 10 major underground storage reservoirs, and four elevated storage tanks. Staff maintains about 520 kilometres of trunk watermains that supply the water reservoirs and over 5,551 kilometres of local distribution mains. Policies and practices adopted by the section help the unit to manage significant issues and challenges, including meeting water demands throughout the year, complying with provincial regulations and working responsibly to protect the environment and local water bodies.

This Summary Report is issued by Toronto Water under Schedule 22-2, O. Reg. 170/03 for the R.L. Clark Water Treatment Plant. The report covers the period from January 1, 2019 to December 31, 2019 except where stated otherwise.

2.0 System Approval

The City of Toronto is the operating authority of the Toronto Drinking Water System and has demonstrated through accreditation (most recent Certificate of Accreditation dated January 30, 2018) by an independent third party, that the Toronto Water Quality Management System meets the requirements of the Drinking Water Quality Management Standard and the Safe Drinking Water Act, 2002, and is managed in a planned and systematic manner.

The latest version of the City of Toronto Municipal Drinking Water Licence was issued on May 3, 2019 by the Ontario Ministry of Environment, Conservation and Parks. Licence Number: 010-101, Issue Number: 10

The latest version of the City of Toronto Municipal Drinking Water Permit was issued on January 3, 2019 by the Ontario Ministry of Environment, Conservation and Parks. Permit Number: 010-201, Issue Number: 6

The R.L. Clark Water Treatment Plant is designated a Class 4 Water Treatment Facility (Certificate No. 444) and is referenced as Drinking Water System Number 220002253 (MECP).

The newest Permit to Take Water is designated by MECP Reference Number 0016-A6QKN2 issued on March 23rd, 2016.
3.0 MECP Inspections

The Ministry of the Environment, Conservation & Parks (MECP) has implemented a rigorous and comprehensive Province-wide approach for the inspection of water systems that focuses on the source, treatment and distribution components as well as water system management practices.

The primary focus of such inspections has been to confirm compliance with provincial legislation and control documents, as well as conformance with MECP drinking water-related policies for the inspection period.

The MECP conducted an announced and focused site inspection of the R.L. Clark Water Treatment Plant on July 30, 2019.

Specifically, the inspection included a review and assessment of operating practices in relation to the following documents:

- Safe Drinking Water Act, 2002
- Drinking Water Systems Regulation (O. Reg. 170/03)
- Ontario Drinking Water Quality Standards (O. Reg. 169/03)
- Operator Certification Regulation (O. Reg. 128/04)
- Municipal Drinking Water Licence (#010-101)
- Drinking Water Works Permit (#010-201)
- Permit to Take Water
- Director’s Orders and/or Provincial Officer’s Orders (if any)
- A Review of previous Ministry Inspection Reports

4.0 Compliance with Terms and Conditions of System Approval and Any Other Orders

Plant production was fully compliant with the Permit to Take Water and at no time during the year 2019 did Raw Water flows exceed the maximum values stipulated in the Permit to Take Water.

All plant production fully conformed to the “Procedure for Disinfection of Drinking Water in Ontario” as referenced by O. Reg. 170/03. Routine operation and maintenance on all critical process equipment was carried out and flow meter calibrations were completed as per manufacturer's recommendations.

5.0 Summary – Water Production

**Monthly Average Output Water Flows for 2019**  
*(As Conveyed to the Distribution System)*

<table>
<thead>
<tr>
<th>Month</th>
<th>Average Daily Volume (m$^3$/day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>386,420</td>
</tr>
<tr>
<td>February</td>
<td>380,360</td>
</tr>
<tr>
<td>March</td>
<td>382,800</td>
</tr>
<tr>
<td>Month</td>
<td>Value</td>
</tr>
<tr>
<td>----------</td>
<td>-----------</td>
</tr>
<tr>
<td>April</td>
<td>368,650</td>
</tr>
<tr>
<td>May</td>
<td>368,080</td>
</tr>
<tr>
<td>June</td>
<td>365,950</td>
</tr>
<tr>
<td>July</td>
<td>416,990</td>
</tr>
<tr>
<td>August</td>
<td>407,750</td>
</tr>
<tr>
<td>September</td>
<td>370,120</td>
</tr>
<tr>
<td>October</td>
<td>344,150</td>
</tr>
<tr>
<td>November</td>
<td>444,490</td>
</tr>
<tr>
<td>December</td>
<td>407,200</td>
</tr>
</tbody>
</table>

NOTE: Non-production days not included in monthly average daily volume.

**Annual Daily Volume and Capacity Assessment for 2019**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Daily Flow</td>
<td>386,580 m³/day</td>
</tr>
<tr>
<td>Maximum Day Flow (and Date Occurred)</td>
<td>556,500 m³ (Nov. 17, 2019)</td>
</tr>
<tr>
<td>Rated Capacity</td>
<td>615,000 m³/day</td>
</tr>
<tr>
<td>Highest Capacity Used</td>
<td>90.5 %</td>
</tr>
</tbody>
</table>

6.0 City of Toronto Endorsement of Summary Report

This Summary Report has been signed off by Lou Di Gironimo, General Manager of Toronto Water, on behalf of the City of Toronto Council.

A copy of this report has been forwarded to the members of the City Council in 2020 as per regulatory requirements.

7.0 Contacts

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2019 Summary Report
Toronto (F.J. Horgan) Water Treatment Plant

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This Summary Report is issued by Toronto Water under Schedule 22-2, O. Reg. 170/03 for the F.J. Horgan Water Treatment Plant. The report covers the period from January 1, 2019 to December 31, 2019 except where stated otherwise.

2.0 System Approval

The City of Toronto is the operating authority of the Toronto Drinking Water System and has demonstrated through accreditation (most recent Certificate of Accreditation dated January 30, 2018) by an independent third party, that the Toronto Water Quality Management System meets the requirements of the Drinking Water Quality Management Standard and the Safe Drinking Water Act, 2002, and is managed in a planned and systematic manner.

The latest version of the City of Toronto Municipal Drinking Water Licence was issued on May 3, 2019 by the Ontario Ministry of Environment, Conservation and Parks. Licence Number: 010-101, Issue Number: 10

The latest version of the City of Toronto Municipal Drinking Water Permit was issued on January 3, 2019 by the Ontario Ministry of Environment, Conservation and Parks. Permit Number: 010-201, Issue Number: 6

The F.J. Horgan Water Treatment Plant is designated a Class 4 Water Treatment Facility (Certificate No. 446) and is referenced as Drinking Water System Number 220004536 (MECP).

The newest Permit to Take Water is designated by MECP Reference Number 6604-A6QKEB issued on March 23rd, 2016.
3.0 MECP Inspections

The Ministry of the Environment (MECP) has implemented a rigorous and comprehensive Province-wide approach for the inspection of water systems that focuses on the source, treatment and distribution components as well as water system management practices.

The primary focus of such inspections has been to confirm compliance with provincial legislation and control documents, as well as conformance with MECP drinking-water related policies for the inspection period.

The Ministry of Environment, Conservation and Parks (MECP) initiated a site inspection of the F.J. Horgan Treatment Plant on December 11, 2019. A follow-up site visit for the purposes of the inspection was conducted on December 18, 2019. As of December 31, 2019 the annual inspection had not been completed.

4.0 Compliance with Terms and Conditions of System Approval and Any Other Orders

The 2018-2019 MECP Inspection Report was unavailable for last year's FJ Horgan Summary Report but upon conclusion of the MECP Inspection on February 15, 2019, it was determined that FJ Horgan was fully compliant with the applicable regulations. No non-compliances were observed.

Plant production was fully compliant with the Permit to Take Water and at no time during the year 2019 did Raw Water flows exceed the maximum values stipulated in the Permit to Take Water.

Water production rates at the FJ Horgan Treatment Plant in 2019 were fully compliant with the Municipal Drinking Water Licence.

All plant production fully conformed to the “Procedure for Disinfection of Drinking Water in Ontario” as referenced by O. Reg. 170/03. Routine operation and maintenance on all critical process equipment was carried out and flow meter calibrations were completed as per manufacturer's recommendations.

5.0 Summary – Water Production

### Monthly Average Output Water Flows for 2019
(As Conveyed to the Distribution System)

<table>
<thead>
<tr>
<th>Month</th>
<th>Average Daily Volume (m³/day)</th>
</tr>
</thead>
<tbody>
<tr>
<td>January</td>
<td>203,000</td>
</tr>
<tr>
<td>February</td>
<td>225,000</td>
</tr>
<tr>
<td>March</td>
<td>203,000</td>
</tr>
<tr>
<td>April</td>
<td>163,000</td>
</tr>
<tr>
<td>May</td>
<td>178,000</td>
</tr>
<tr>
<td>June</td>
<td>233,000</td>
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</tbody>
</table>
Annual Daily Volume and Capacity Assessment for 2019

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Daily Flow</td>
<td>226,000 m³/day</td>
</tr>
<tr>
<td>Maximum Day Flow (and Date Occurred)</td>
<td>367,000 m³ (November 30, 2019)</td>
</tr>
<tr>
<td>Rated Capacity</td>
<td>800,000 m³/day</td>
</tr>
<tr>
<td>Highest Capacity Used</td>
<td>45.9 %</td>
</tr>
</tbody>
</table>

6.0 City of Toronto Endorsement of Summary Report

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A copy of this report has been forwarded to the members of the City Council in 2020 as per regulatory requirements.

7.0 Contacts

While all efforts have been made to provide the required information in the proper format and degree of detail, it is acknowledged that additional information and/or detail may be required.

For additional information or inquiries, please contact customer service by phone at 311 or by email (311@toronto.ca).
2019 Summary Report
City of Toronto Distribution System

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February 10th, 2020
1.0 General Overview

Toronto Water treats, transmits, stores and distributes potable water to all industrial, commercial and household water users in the City of Toronto. The division also delivers water to the southern portion of the Region of York.

Staff in this area are highly trained and specialized, operating four water treatment plants, two laboratories, 18 pumping stations, 10 major ground level storage reservoirs and four elevated storage tanks. Policies and practices adopted by the section help the unit to manage significant issues and challenges, including meeting water demands throughout the year, complying with provincial regulations and working responsibly to protect the environment and local water bodies.

Toronto Water Distribution and Supply provides water distribution services to 515,345 residential and industrial/commercial accounts. Maintenance and operation of the distribution system is carried out by district staff in four Water Distribution Districts: North, West, East, and South. Distribution & Collection is responsible for regular hydrant and valve inspections, watermain flushing, investigation of water pressure and water quality complaints, repair or replacement of watermains, water services, valves and hydrants. Distribution staff inspect, operate, and maintain the existing water distribution system which include, but is not limited to:

- 5,551 km of watermains
- 44,000 water hydrants
- 52,900 valves
- 12 pressure districts

This Summary Report is issued by Toronto Water under Schedule 22-2, O. Reg. 170/03 for the City of Toronto Distribution System (managed by Water Supply and Distribution & Collection). The report covers the period from January 1, 2019 to December 31, 2019 except where stated otherwise.

2.0 System Approval

The City of Toronto Distribution System is categorized as a Large Municipal Residential System and is referenced as Drinking Water System Number 260090363. The name of the system is City of Toronto Drinking Water System – Toronto DS.

The City of Toronto is the operating authority of the Toronto Drinking Water System and has demonstrated through accreditation (most recent Certificate of Accreditation dated January 30, 2018) by an independent third party, that the Toronto Water Quality Management System meets the requirements of the Drinking Water Quality Management Standard and the Safe Drinking Water Act, 2002, and is managed in a planned and systematic manner.

The latest version of the City of Toronto Municipal Drinking Water Licence was issued on May 3, 2019 by the Ontario Ministry of Environment, Conservation and Parks. Licence Number: 010-101, Issue Number: 10
The latest version of the City of Toronto Municipal Drinking Water Permit was issued on January 3, 2019 by the Ontario Ministry of Environment, Conservation and Parks. Permit Number: 010-201, Issue Number: 6

3.0 MECP Inspections

The Ministry of the Environment, Conservation & Parks (MECP) has implemented a rigorous and comprehensive Province-wide approach for the inspection of water systems that focuses on the source, treatment and distribution components as well as water system management practices.

The primary focus of such inspections has been to confirm compliance with the provincial legislation and control documents, as well as conformance with MECP drinking water-related policies and guidelines for the inspection period.

The inspection is based on a “stand alone connected distribution system”. The elements are reviewed to assess key compliance and conformance to issues associated with a receiver system as defined under O. Reg. 172/03. The inspection includes a review and assessment of operating practices in relation to the following documentation:

- Treatment Processes
- Distribution System
- Operational Manuals
- Logbooks (O. Reg. 170/03)
- Security
- Certification and Training
- Water Quality Monitoring (O. Reg. 170/03)
- Water Quality Assessment (O. Reg. 169/03)
- Reporting and Corrective actions (O. Reg. 170/03)

The MECP initiated an announced site inspection of Toronto's Distribution and Supply System on February 8, 2019. The site inspections were carried out at various Distribution & Collection locations, Water Supply, and Engineering & Construction Services in the following weeks.

4.0 Compliance with Terms and Conditions of System Approval and Any Other Orders

The 2018-2019 Distribution System Drinking Water Inspection was performed on February 8, 2019 and the Inspection Report issued on March 28, 2019. From the report, there were no incidences of non-compliance and the Toronto Distribution and Supply System received a Final Inspection Rating of 100%.
5.0 City of Toronto Endorsement of Summary Report

This Summary Report has been signed off by Lou Di Gironimo, General Manager of Toronto Water on behalf of the City of Toronto Council.

A copy of this report has been forwarded to the members of the City Council in 2019 as per regulatory requirements.

6.0 Contacts

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