



# DRINKING WATER SYSTEM



## Summary Report 2024

# 2024 SUMMARY REPORT

(SCHEDULE 22-2, O.REG.170/03)

## Toronto Water Treatment Plant: R.C. Harris

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# SUMMARY REPORT (SCHEDULE 22-2 OF O.REG.170/03): CITY OF TORONTO DRINKING WATER SYSTEM

## 1. DRINKING WATER SYSTEM INFORMATION

<b>Drinking-Water System Number:</b>	<b>220002262</b>
<b>Drinking-Water System Name:</b>	City of Toronto Drinking Water System
<b>Drinking-Water System Owner:</b>	City of Toronto
<b>Drinking-Water System Category:</b>	Large Municipal Residential
<b>Facility Classification:</b>	Class 4 Water Treatment Facility (Certificate No. 445)
<b>Permit to Take Water:</b>	0726-A6QJTA
<b>Drinking Water Works Permit:</b>	010-201
<b>Drinking Water Works Licence:</b>	010-101
<b>DWQMS Re-Accreditation Audit:</b>	0169585
<b>Period being Reported:</b>	January 1, 2024 to December 31, 2024

## 2. 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 4 water treatment plants, 2 laboratories, 18 pumping stations, 11 major ground level storage reservoirs and 4 elevated storage tanks. Staff maintains approximately 540 kilometres of trunk watermains that supply the water reservoirs and 5,570 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 in accordance with Schedule 22-2 of Ontario Regulation 170/03.

## 3. SUMMARY – NON-COMPLIANCE

The next table summarizes any available incidences (from MECP Inspection Reports) where requirements from applicable regulatory instruments were not met at any time during the reporting period; the duration of each incident; and the corresponding corrective actions taken to respond to them. The applicable regulatory instruments are:

- Safe Drinking Water Act (SDWA);
- Applicable SDWA Regulations, including but not limited to:
  - O. Reg. 170/03: DRINKING WATER SYSTEMS;
  - O. Reg. 128/04: CERTIFICATION OF DRINKING WATER SYSTEM OPERATORS AND WATER QUALITY ANALYSTS;
  - O. Reg. 169/03: ONTARIO DRINKING WATER QUALITY STANDARDS; and
  - O. Reg. 248/03: DRINKING WATER TESTING SERVICES.

- Drinking Water System Approval;
- Drinking Water Works Permit;
- Drinking Water Licence; and
- Any orders applicable to the system.

INCIDENT DATE	REGULATORY INSTRUMENT REFERENCE	DESCRIPTION	CORRECTIVE ACTION	INCIDENT DURATION
02/29/2024	O. Reg 170/03	Filter #33 turbidity was recorded as 1.0 NTU from 13:24 to 15:30 on 02/29/24 (reading not accurate, faulty instrument).	Filter removed from Service, malfunctioning instrument repaired, SCADA changes implemented to prevent recurrence.	02:06 (hh:mm)

#### 4. SUMMARY – WATER PRODUCTION

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

MONTH	AVERAGE DAILY VOLUME (m <sup>3</sup> )
January	563,252
February	547,596
March	337,365
April	326,072
May	358,788
June	387,266
July	342,130
August	352,145
September	345,166
October	343,012
November	353,752
December	345,223

##### Annual Daily Volume and Capacity Assessment for Reporting Period

PARAMETER	VALUE
Average Daily Flow (m <sup>3</sup> )	382,916
Maximum Day Flow (m <sup>3</sup> ) (and Date Occurred)	725,902 (on 01/23/2024)
Rated Capacity (m <sup>3</sup> /day)	950,000
Highest Capacity Used (% of rated)	76.4

## **5. 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 2025 as per regulatory requirements.

## **6. CONTACTS**

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# 2024 SUMMARY REPORT

(SCHEDULE 22-2, O.REG.170/03)

## Toronto Water Treatment Plant: Island

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## SUMMARY REPORT (SCHEDULE 22-2 OF O.REG.170/03): CITY OF TORONTO DRINKING WATER SYSTEM

### 1. DRINKING WATER SYSTEM INFORMATION

<b>Drinking-Water System Number:</b>	<b>220002244</b>
<b>Drinking-Water System Name:</b>	City of Toronto Drinking Water System
<b>Drinking-Water System Owner:</b>	City of Toronto
<b>Drinking-Water System Category:</b>	Large Municipal Residential
<b>Facility Classification:</b>	Class 4 Water Treatment Facility (Certificate No. 443)
<b>Permit to Take Water:</b>	2861- CD8LSW
<b>Drinking Water Works Permit:</b>	010-201
<b>Drinking Water Works Licence:</b>	010-101
<b>DWQMS Re-Accreditation Audit:</b>	0169585
<b>Period being Reported:</b>	January 1, 2024 to December 31, 2024

### 2. GENERAL OVERVIEW

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Staff in this area are highly trained and specialized, operating 4 water treatment plants, 2 laboratories, 18 pumping stations, 11 major ground level storage reservoirs and 4 elevated storage tanks. Staff maintains approximately 540 kilometres of trunk water mains that supply the water reservoirs and 5,570 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.

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- Safe Drinking Water Act (SDWA);
- Applicable SDWA Regulations, including but not limited to:
  - O. Reg. 170/03: DRINKING WATER SYSTEMS;
  - O. Reg. 128/04: CERTIFICATION OF DRINKING WATER SYSTEM OPERATORS AND WATER QUALITY ANALYSTS;
  - O. Reg. 169/03: ONTARIO DRINKING WATER QUALITY STANDARDS; and
  - O. Reg. 248/03: DRINKING WATER TESTING SERVICES.

- Drinking Water System Approval;
- Drinking Water Works Permit;
- Drinking Water Licence; and
- Any orders applicable to the system.

INCIDENT DATE	REGULATORY INSTRUMENT REFERENCE	DESCRIPTION	CORRECTIVE ACTION	INCIDENT DURATION
02/23/2024	Reg. 170/03: DRINKING WATER SYSTEMS	Output total chlorine residual was above 3mg/L from 17:40 to 17:55 with maximum residual of 3.73mg/L. Event reported to SAC on 02/23/2024.	The dechlorination process was activated at 17:15. No corrective action was requested by Medical Officer of Health.	15 minutes
08/27/2024	Reg. 170/03: DRINKING WATER SYSTEMS	One Treated Water Sample collected on 08/24/2024 was tested to be positive for Total Coliform.	None (subsequent sample <b>was</b> tested to be negative for Total Coliform).	N/A

#### 4. SUMMARY – WATER PRODUCTION

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

MONTH	AVERAGE DAILY VOLUME (m <sup>3</sup> )
January	272,160 *
February	282,650 *
March	314,860
April	322,680
May	314,380
June	319,800
July	335,230
August	331,970
September	317,920
October	280,660
November	257,300
December	244,370

\*Island Water Treatment Plant shutdown 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 Reporting Period**

<b>PARAMETER</b>	<b>VALUE</b>
Average Daily Flow (m <sup>3</sup> )	302,660
Maximum Day Flow (m <sup>3</sup> ) (and Date Occurred)	359,420 (on 06/19/2024)
Rated Capacity (m <sup>3</sup> /day)	440,000
Highest Capacity Used (% of rated)	81.7%

**5. CITY OF TORONTO ENDORSEMENT OF SUMMARY REPORT**

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**6. CONTACTS**

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# 2024 SUMMARY REPORT

(SCHEDULE 22-2, O.REG.170/03)

## Toronto Water Treatment Plant: R.L. Clark

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## SUMMARY REPORT (SCHEDULE 22-2 OF O.REG.170/03): CITY OF TORONTO DRINKING WATER SYSTEM

### 1. DRINKING WATER SYSTEM INFORMATION

<b>Drinking-Water System Number:</b>	<b>220002253</b>
<b>Drinking-Water System Name:</b>	City of Toronto Drinking Water System
<b>Drinking-Water System Owner:</b>	City of Toronto
<b>Drinking-Water System Category:</b>	Large Municipal Residential
<b>Facility Classification:</b>	Class 4 Water Treatment Facility (Certificate No. 444)
<b>Permit to Take Water:</b>	0016-A6QKN2
<b>Drinking Water Works Permit:</b>	010-201
<b>Drinking Water Works Licence:</b>	010-101
<b>DWQMS Re-Accreditation Audit:</b>	0169585
<b>Period being Reported:</b>	January 1, 2024 to December 31, 2024

### 2. GENERAL OVERVIEW

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### 3. SUMMARY – NON-COMPLIANCE

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  - O. Reg. 128/04: CERTIFICATION OF DRINKING WATER SYSTEM OPERATORS AND WATER QUALITY ANALYSTS;
  - O. Reg. 169/03: ONTARIO DRINKING WATER QUALITY STANDARDS; and
  - O. Reg. 248/03: DRINKING WATER TESTING SERVICES.

- Drinking Water System Approval;
- Drinking Water Works Permit;
- Drinking Water Licence; and
- Any orders applicable to the system.

INCIDENT DATE	REGULATORY INSTRUMENT REFERENCE	DESCRIPTION	CORRECTIVE ACTION	INCIDENT DURATION
08/08/2024	O. Reg. 170/03	Coagulation outage	Flow meter for RW Module inspected/ calibrated.	58 minutes

#### 4. SUMMARY – WATER PRODUCTION

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

MONTH	AVERAGE DAILY VOLUME (m <sup>3</sup> )
January	324,592
February	304,055
March	289,804
April	293,598
May	326,390
June	366,155
July	373,671
August	365,892
September	351,288
October	314,613
November	305,246
December	306,914

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

##### Annual Daily Volume and Capacity Assessment for Reporting Period

PARAMETER	VALUE
Average Daily Flow (m <sup>3</sup> )	325,002
Maximum Day Flow (m <sup>3</sup> ) (and Date Occurred)	431,000 (on 08/28/2024)
Rated Capacity (m <sup>3</sup> /day)	615,000
Highest Capacity Used (% of rated)	70

## **5. CITY OF TORONTO ENDORSEMENT OF SUMMARY REPORT**

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# 2024 SUMMARY REPORT

(SCHEDULE 22-2, O.REG.170/03)

## Toronto Water Treatment Plant: F.J. Horgan

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# SUMMARY REPORT (SCHEDULE 22-2 OF O.REG.170/03): CITY OF TORONTO DRINKING WATER SYSTEM

## 1. DRINKING WATER SYSTEM INFORMATION

<b>Drinking-Water System Number:</b>	<b>220004536</b>
<b>Drinking-Water System Name:</b>	City of Toronto Drinking Water System
<b>Drinking-Water System Owner:</b>	City of Toronto
<b>Drinking-Water System Category:</b>	Large Municipal Residential
<b>Facility Classification:</b>	Class 4 Water Treatment Facility (Certificate No. 446)
<b>Permit to Take Water:</b>	6604-A6QKEB
<b>Drinking Water Works Permit:</b>	010-201
<b>Drinking Water Works Licence:</b>	010-101
<b>DWQMS Re-Accreditation Audit:</b>	0169585
<b>Period being Reported:</b>	January 1, 2024 to December 31, 2024

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  - O. Reg. 169/03: ONTARIO DRINKING WATER QUALITY STANDARDS; and
  - O. Reg. 248/03: DRINKING WATER TESTING SERVICES.

- Drinking Water System Approval;
- Drinking Water Works Permit;
- Drinking Water Licence; and
- Any orders applicable to the system.

INCIDENT DATE	REGULATORY INSTRUMENT REFERENCE	DESCRIPTION	CORRECTIVE ACTION	INCIDENT DURATION
N/A	N/A	N/A	N/A	N/A

#### 4. SUMMARY – WATER PRODUCTION

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

MONTH	AVERAGE DAILY VOLUME (m <sup>3</sup> )
January	229,349
February	245,328
March	229,853
April	239,484
May	267,643
June	299,715
July	360,603
August	330,089
September	359,385
October	355,022
November	332,877
December	332,985

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

##### Annual Daily Volume and Capacity Assessment for Reporting Period

PARAMETER	VALUE
Average Daily Flow (m <sup>3</sup> )	149,167
Maximum Day Flow (m <sup>3</sup> ) (and Date Occurred)	509,172 (on 09/29/2024)
Rated Capacity (m <sup>3</sup> /day)	800,000
Highest Capacity Used (% of rated)	63.65



## **5. CITY OF TORONTO ENDORSEMENT OF SUMMARY REPORT**

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# 2024 SUMMARY REPORT

(SCHEDULE 22-2, O.REG.170/03)

## Toronto Water: Distribution System

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## SUMMARY REPORT (SCHEDULE 22-2 OF O.REG.170/03): CITY OF TORONTO DRINKING WATER SYSTEM

### 1. DRINKING WATER SYSTEM INFORMATION

<b>Drinking-Water System Number:</b>	<b>260090363</b>
<b>Drinking-Water System Name:</b>	City of Toronto Drinking Water System
<b>Drinking-Water System Owner:</b>	City of Toronto
<b>Drinking-Water System Category:</b>	Large Municipal Residential
<b>Facility Classification:</b>	Class 2 Water Distribution Facility (Certificate No. 9207) Class 4 Trunk Water Distribution Subsystem (Cert. 1532)
<b>Permit to Take Water:</b>	N/A
<b>Drinking Water Works Permit:</b>	010-201
<b>Drinking Water Works Licence:</b>	010-101
<b>DWQMS Re-Accreditation Audit:</b>	0169585
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  - O. Reg. 169/03: ONTARIO DRINKING WATER QUALITY STANDARDS; and
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- Drinking Water System Approval;
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INCIDENT DATE	REGULATORY INSTRUMENT REFERENCE	DESCRIPTION	CORRECTIVE ACTION	INCIDENT DURATION
N/A	N/A	N/A	N/A	N/A

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