



DRINKING WATER SYSTEM

Summary Report 2023



2023 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

Drinking-Water System Number:	220002262
Drinking-Water System Name:	City of Toronto Drinking Water System
Drinking-Water System Owner:	City of Toronto
Drinking-Water System Category:	Large Municipal Residential
Facility Classification:	Class 4 Water Treatment Facility (Certificate No. 445)
Permit to Take Water:	0726-A6QJTA
Drinking Water Works Permit:	010-201
Drinking Water Works Licence:	010-101
DWQMS Re-Accreditation Audit:	CERT-0135482
Period being Reported:	January 1, 2023 to December 31, 2023

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 four water treatment plants, two laboratories, 18 pumping stations, 11 major ground level storage reservoirs and four elevated storage tanks. Staff maintains approximately 525 kilometres of trunk watermains that supply the water reservoirs and 5,580 kilometers 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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3. SUMMARY – NON-COMPLIANCE

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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
 - O. Reg. 248/03: DRINKING WATER TESTING SERVICES
- Drinking Water System Approval
- Drinking Water Works Permit
- Drinking Water Licence
- 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 ³)
January	489,492
February	578,031
March	358,916
April	325,486
May	307,389
June	344,278
July	323,185
August	317,882
September	312,909
October	355,965
November	345,513
December	329,511

Annual Daily Volume and Capacity Assessment for Reporting Period

PARAMETER	VALUE
Average Daily Flow (m ³)	364,337
Maximum Day Flow (m ³) (and Date Occurred)	632,757 (January 23, 2023)
Rated Capacity (m ³ /day)	950,000
Highest Capacity Used (% of rated)	67

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 2024 as per regulatory requirements.

6. CONTACTS

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2023 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

Drinking-Water System Number:	220002244
Drinking-Water System Name:	City of Toronto Drinking Water System
Drinking-Water System Owner:	City of Toronto
Drinking-Water System Category:	Large Municipal Residential
Facility Classification:	Class 4 Water Treatment Facility (Certificate No. 443)
Permit to Take Water:	2861- CD8LSW
Drinking Water Works Permit:	010-201
Drinking Water Works Licence:	010-101
DWQMS Re-Accreditation Audit:	CERT-0135482
Period being Reported:	January 1, 2023 to December 31, 2023

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 - O. Reg. 248/03: DRINKING WATER TESTING SERVICES
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INCIDENT DATE	REGULATORY INSTRUMENT REFERENCE	DESCRIPTION	CORRECTIVE ACTION	INCIDENT DURATION
March 14th, 2023	Reg. 170/03: DRINKING WATER SYSTEMS	Filter #3 effluent turbidity data not available from 12:44 to 21:12 due to analyzer failure. Event reported to SAC on March 21.	Surrogate meter FLT-AIT-0005 was set to monitor filter #3 effluent on March 14th from 21:12.	From 12:44 to 21:06 of March 14th, 2023.

4. SUMMARY – WATER PRODUCTION

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

MONTH	AVERAGE DAILY VOLUME (m ³)
January	237,420 *
February	204,310 *
March	242,790
April	304,710
May	335,930
June	355,600
July	365,300
August	358,810
September	335,800
October	314,570
November	303,150
December	301,250

*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

PARAMETER	VALUE
Average Daily Flow (m ³)	317,232
Maximum Day Flow (m ³) (and Date Occurred)	389,150 (July 6, 2023)
Rated Capacity (m ³ /day)	440,000
Highest Capacity Used (% of rated)	88.4

5. CITY OF TORONTO ENDORSEMENT OF SUMMARY REPORT

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2023 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

Drinking-Water System Number:	220002253
Drinking-Water System Name:	City of Toronto Drinking Water System
Drinking-Water System Owner:	City of Toronto
Drinking-Water System Category:	Large Municipal Residential
Facility Classification:	Class 4 Water Treatment Facility (Certificate No. 444)
Permit to Take Water:	0016-A6QKN2
Drinking Water Works Permit:	010-201
Drinking Water Works Licence:	010-101
DWQMS Re-Accreditation Audit:	CERT-0135482
Period being Reported:	January 1, 2023 to December 31, 2023

2. GENERAL OVERVIEW

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- 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 ³)
January	355,159
February	351,336
March	351,144
April	316,133
May	344,320
June	399,388
July	380,577
August	358,006
September	363,583
October	287,148
November	271,209
December	280,647

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 ³)	338,120
Maximum Day Flow (m ³) (and Date Occurred)	456,160 (June 8, 2023)
Rated Capacity (m ³ /day)	615,000
Highest Capacity Used (% of rated)	74

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2023 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

Drinking-Water System Number:	220004536
Drinking-Water System Name:	City of Toronto Drinking Water System
Drinking-Water System Owner:	City of Toronto
Drinking-Water System Category:	Large Municipal Residential
Facility Classification:	Class 4 Water Treatment Facility (Certificate No. 446)
Permit to Take Water:	6604-A6QKEB
Drinking Water Works Permit:	010-201
Drinking Water Works Licence:	010-101
DWQMS Re-Accreditation Audit:	CERT-0135482
Period being Reported:	January 1, 2023 to December 31, 2023

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INCIDENT DATE	REGULATORY INSTRUMENT REFERENCE	DESCRIPTION	CORRECTIVE ACTION	INCIDENT DURATION
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4. SUMMARY – WATER PRODUCTION

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

MONTH	AVERAGE DAILY VOLUME (m ³)
January	242,560
February	276,710
March	273,910
April	232,090
May	269,880
June	274,560
July	278,000
August	278,390
September	309,390
October	257,640
November	232,570
December	213,350

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 ³)	261,588
Maximum Day Flow (m ³) (and Date Occurred)	465,320 (June 4, 2023)
Rated Capacity (m ³ /day)	800,000
Highest Capacity Used (% of rated)	58.2

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2023 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

Drinking-Water System Number:	260090363
Drinking-Water System Name:	City of Toronto Drinking Water System
Drinking-Water System Owner:	City of Toronto
Drinking-Water System Category:	Large Municipal Residential
Facility Classification:	Class 2 Water Distribution Facility (Certificate No. 9207) Class 4 Trunk Water Distribution Subsystem (Cert. 1532)
Permit to Take Water:	N/A
Drinking Water Works Permit:	010-201
Drinking Water Works Licence:	010-101
DWQMS Re-Accreditation Audit:	CERT-0135482
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