

DRINKING WATER SYSTEM

Summary
Report
2021

2021 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, 2021 to December 31, 2021

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 500 kilometres of trunk watermains that supply the water reservoirs and 5,576 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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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
- 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	486,290
February	503,680
March	519,690
April	331,890
May	276,740
June	301,390
July	313,390
August	324,620
September	343,690
October	299,180
November	329,470
December	321,360

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)	361,850
Maximum Day Flow (m ³) (and Date Occurred)	594,530 April 3, 2021
Rated Capacity (m ³ /day)	950,000
Highest Capacity Used (% of rated)	63%

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 2022 as per regulatory requirements.

6. CONTACTS

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2021 SUMMARY REPORT
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**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:	5537-C4JH8M
Drinking Water Works Permit:	010-201
Drinking Water Works Licence:	010-101
DWQMS Re-Accreditation Audit:	CERT-0135482
Period being Reported:	January 1, 2021 to December 31, 2021

2. GENERAL OVERVIEW

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- 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	0 *
February	0 *
March	0 *
April	311,517 *
May	342,454
June	366,410
July	371,569
August	383,761
September	361,909
October	342,430
November	319,180 *
December	314,055 *

*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 Reporting Period

PARAMETER	VALUE
Average Daily Flow (m ³)	346,873
Maximum Day Flow (m ³) (and Date Occurred)	406,120 (August 26, 2021)
Rated Capacity (m ³ /day)	440,000
Highest Capacity Used (% of rated)	92

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2021 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, 2021 to December 31, 2021

2. GENERAL OVERVIEW

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- O. Reg. 169/03: ONTARIO DRINKING WATER QUALITY STANDARDS
- O. Reg. 248/03: DRINKING WATER TESTING SERVICES
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INCIDENT DATE	REGULATORY INSTRUMENT REFERENCE	DESCRIPTION	CORRECTIVE ACTION	INCIDENT DURATION
2021/02/16	O. Reg. 170/03	Continuous monitoring of filter effluent turbidity not performed	Impacted filter operation was terminated. Faulty analyzer was replaced	110 minutes
2021/02/16	O. Reg. 170/03	Adverse water quality incident not immediately reported	Staff retrained on adverse reporting procedures	Single occurrence

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	337,710
February	317,998
March	337,929
April	310,620
May	324,638
June	388,490
July	348,734
August	365,860
September	313,778
October	309,662
November	302,832
December	287,548

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)	329,210
Maximum Day Flow (m ³) (and Date Occurred)	448,400 (June 24, 2021)
Rated Capacity (m ³ /day)	615,000
Highest Capacity Used (% of rated)	73

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2021 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, 2021 to December 31, 2021

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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
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	245,220
February	269,440
March	232,180
April	246,280
May	260,000
June	292,100
July	258,480
August	299,970
September	242,080
October	198,380
November	175,830
December	187,240

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)	242,080
Maximum Day Flow (m ³) (and Date Occurred)	396,000 (July 7, 2021)
Rated Capacity (m ³ /day)	800,000
Highest Capacity Used (% of rated)	49.5

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2021 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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INCIDENT DATE	REGULATORY INSTRUMENT REFERENCE	DESCRIPTION	CORRECTIVE ACTION	INCIDENT DURATION
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