

Corporation of the City of Quinte West

Trenton/Bayside Drinking Water System (Trenton Service Area)

2022 Annual Drinking Water System Report



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The Corporation of the City of Quinte West
 Public Works and Environmental Services
 Water/Wastewater Division
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2022 Annual Drinking Water System Report

Drinking Water System Information

Drinking Water System Number:	220001619
Drinking Water System Name:	Trenton/Bayside Drinking Water System (Trenton Service Area)
Drinking Water System Owner:	The Corporation of the City of Quinte West
Drinking Water System Category:	Large Municipal-Residential System
Period being Reported:	January 1, 2022 through December 31, 2022

Does your Drinking Water System service more than 10,000 people?

Yes.

Is your Annual Report available to the public at no charge on a website

Yes, please visit www.quintewest.ca

Location where Summary Report required under O.Reg.170/03 Schedule 22 will be available for inspection

Water/Wastewater Services Administration Office

25 Couch Crescent

Trenton, ON, K8V 1G8

List all Drinking Water Systems (if any), that receive all of their Drinking Water from your System:

Carrying Place/Consecon Water Distribution System, DWS number 260005099



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

- Public access/notice via City website
- Public access/notice via Government Office
- Public access/notice via newspaper
- Public access/notice via City social media platform(s)
- Public access/notice via a Public Library
- Public access/notice via other method:

Description of the Drinking Water System

The Trenton Water Treatment Plant draws water from the Trent River upstream of Dam No. 1 through two intake pipes; one 53 m long, 400 mm diameter raw water intake pipe, and a second, 18 m long, 600 mm diameter intake. This conventional, chemically assisted filtration plant has a rated capacity of 35,800 cu.m/day. Processes used at the filtration plant include flocculation, sedimentation, and Granular Activated Carbon Filtration. Chlorine gas is applied as a disinfectant before filtered water enters two interconnected baffled clearwells with a combined capacity of 5,454 cu.m. The potable (drinkable) water is then pumped into the distribution system through a set of four (4) highlift pumps. There are two elevated water storage tanks in service. The first is the 2nd Dug Hill Road Water Tower; capacity 2,273 cu.m, the second is the Oak Street Water Tower; capacity 2,273 cu.m. Five Booster Pumping Stations are located within the Trenton WDS; they are Catherine Street Booster Pumping Station, Mount Pelion Booster Pumping Station, Telephone Road Booster Pumping Station, Youngs Cove Fire Booster Pumping Station and Frankford Booster Pumping Station. These stations are used to boost system pressure, and supply water into areas at a higher elevation than the Water Treatment Plant.

The Trenton distribution system services approximately 27,800 people in the Trenton community, in addition to part of CFB Trenton. The Trenton Water Treatment plant also



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supplies all drinking water to the Carrying Place and Consecon Water Distribution System in Prince Edward County.

In 2015 the City installed a watermain along Old Hwy 2 that effectively connected the Trenton Water Distribution System (WDS) to the Bayside WDS. On April 21, 2017 the Trenton, and Bayside Drinking Water System's were consolidated and governed under one Drinking Water Works Permit (DWWP) # 163-202, and Municipal Drinking Water Licence (MDWL) # 163-102. Each system is still assigned a separate Drinking-Water System number by the Ministry of Environment, Conservation and Parks.

In May of 2022 the City commissioned the Frankford Booster Station and a watermain along Glen Miller Road connecting the Trenton WDS and Frankford WDS. The City has applied for a consolidated DWWP for all three (3) DWS, currently awaiting approval.

List all water treatment chemical used over this Reporting Period:

- ✓ Aluminum Sulfate (Trade Name: Alum)
- ✓ Chlorine Gas

Were any significant expenses incurred to:

- ✓ Install Required Equipment?
- ✓ Repair Required Equipment?
- ✓ Replace Required Equipment?

Provide a brief description, and a breakdown of monetary expenses incurred to facilitate equipment upgrades:

Preventative Maintenance (PM) activities for lubrication, inspections, testing and cleaning of equipment is scheduled and completed routinely, along with other lifecycle replacement



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needs. In addition to the PM activity, the following Capital expenditures were incurred this Reporting Period:

Water Meter Automation and Replacement	~ \$700,000 (combined with all Drinking Water Systems)
Walmart Water Tower Painting and Safety Upgrades	~ \$240,000
Oak St Water Tower Safety Upgrades	~ \$40,000
Carbon Replacement	~ \$335,000
Filter 2 Underdrain Replacement	~ \$215,000
Primary Flocculation Tank Mixer Replacement	~ \$63,000
Lorne Avenue Watermain Replacement	~ \$272,000
Shuter Street Watermain Replacement	~ \$398,000
West End Trunk Watermain - Design work	~ \$308,000

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 during this Reporting Period:

Incident Date (DD-MMM-YY)	Parameter	Result	Unit of Measure	Corrective Action	Corrective Action Date (DD-MMM-YY)
13-MAY-21	<i>Free Chlorine</i>	Dual Media Filter 2 underdrain system failure	mg/L	Operator removed media from inlet line. Filter placed back in service.	07-FEB-23



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Microbiological Testing completed in accordance with Schedule 10, 11, or 12 of Regulation 170/03 during this Reporting Period:

	Number of Samples	Range of E.Coli (min - max)	Range of Total Coliform (min - max)	Number of Heterotrophic Plate Count Samples	Range of HPC results (min - max)
Raw	52	0 - NDOGT ¹	22 - NDOGT	NA	NA
Treated	52	0 - 0	0 - 0	52	0 - 1
Distribution	421	0 - 0	0 - 0	174	0 - 79

Operational Testing completed in accordance with Schedule 7, 8, or 9 of O.Reg.170/03 during this Reporting Period:

Parameter	Number of Grab Samples	Range of Results (min-max)
Turbidity, (NTU)	8760	0.000 ² - 1.134 ³
Primary Disinfection FAC ⁴ , (mg/L)	8760	1.53 - 2.92
Secondary Disinfection FAC ⁵ , (mg/L)	8760	0.65 - 2.33

¹ NDOGT stands for No Data: Overgrown with Target Bacteria. Prior, and subsequent datasets within normal range.

² Value obtained when the analyzer failed. Three (3) events occurred throughout the reporting period. Lasts less than 1 min, before alarm interlock shuts filter down.

³ Isolated incident occurring for less than 30 seconds, before filter effluent valved closed. Incident occurred on January 4, 2022.

⁴ Free Available Chlorine. Defined as the free amount of chlorine available in water.

⁵ Secondary monitoring location Youngs Cove Booster Station



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Summary of additional testing and sampling carried out in accordance with the requirement of an Approval, Order, or other Legal Instrument:

In accordance with Condition 4.0 of MDWL #163-102, monthly samples must be collected and tested for Total Suspended Solids, and Total Residual Chlorine⁶, from the following waste streams that may impact the natural environment:

- Waste Residual Management Sedimentation Tank - Clear Water Discharge

Condition 1.5 of the MDWL outlines the maximum annual average concentration for each of these parameters. Outlined below are the sample results obtained throughout the year.

Monitoring Month	Total Flow (cu.m)	Total Suspended Solids (mg/L)	Minimum Total Residual Chlorine (mg/L)	Maximum Total Residual Chlorine (mg/L)
January, 2022	10,638	5	0.05	0.05
February, 2022	9,050	16	0.05	0.06
March, 2022 ⁷	11,006		0.05	0.08
April, 2022	10,174	4	0.05	0.06
May, 2022	12,204	5	0.00	0.05
June, 2022	9,447	5	0.01	0.01
July, 2022	9,829	4	0.01	0.01
August, 2022	7,804	7	0.01	0.01
September, 2022	9,097	4	0.01	0.01

⁶ Total Residual Chlorine. Defined as the total amount of chlorine available in water.

⁷ TSS Sample for the monitoring month of March 2022 was collected on February 28, 2022, not in compliance with the MDWL



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October, 2022	10,114	2	0.01	0.01
November, 2022	8,853	6	0.02	0.02
December, 2022	8,101	7	0.02	0.02
Annual Average	9,693	6.33	0.0325	

The maximum annual average concentration for Total Residual Chlorine is outlined to be 0.02 mg/L. This value was exceeded during the period and upon further investigation it was determined that the cause is attributed to the level of accuracy with monitoring equipment. In May of 2022 Operators began using new standards which, as evidenced in the table above, are producing a lower range of results and subsequently more accurate data. It is anticipated going forward the annual average will be within acceptable range.

Summary of Inorganic parameters tested during this Reporting Period or the most recent Sample Results:

Inorganic Compound Results				
Parameter	Sample Date (dd/mmm/yy)	Result Value	Unit of Measure	Exceedance?
Antimony	11-JAN-22	< 0.6	ug/L	No
Arsenic	11-JAN-22	< 0.2	ug/L	No
Barium	11-JAN-22	24.1	ug/L	No
Boron	11-JAN-22	15	ug/L	No
Cadmium	11-JAN-22	< 0.003	ug/L	No
Chromium	11-JAN-22	0.12	ug/L	No
Mercury	11-JAN-22	< 0.01	ug/L	No



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Selenium	11-JAN-22	0.04	ug/L	No
Sodium	11-JAN-22	8.71	mg/L	No
Fluoride	11-JAN-22	< 0.06	mg/L	No
Uranium	11-JAN-22	0.006	ug/L	No
Nitrate	11-JAN-22 05-APR-22 05-JUL-22 04-OCT-22	0.284 0.312 0.095 0.033	mg/L	No
Nitrite	11-JAN-22 05-APR-22 05-JUL-22 04-OCT-22	< 0.003 < 0.003 < 0.003 < 0.003	mg/L	No

Summary of Lead Testing under Schedule 15.1 during this Reporting Period:

Lead Sampling Results				
Sampling Period	Location Type	Number of Samples	Range of Lead Results (ug/L), 'min-max'	Number of Exceedances
Winter Sampling Period ⁸ (11-FEB-22)	Distribution	4	0.06 - 0.53	0
Summer Sampling Period ⁹ (11-OCT-22)	Distribution	4	0.02 - 0.93	0

⁸ Winter Sampling Period runs from December 15 - April 15.

⁹ The Summer Sampling Period runs from June 15 - October 15.



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Summary of Organic parameters sampled during this Reporting Period:

Organic Compound Results				
Parameter	Sample Date	Result Value	Unit of Measure	Exceedance
Alachlor	11-JAN-22	< 0.02	ug/L	No
Atrazine + N-dealkylated metabolites	11-JAN-22	< 0.01	ug/L	No
Azinphos-methyl	11-JAN-22	< 0.05	ug/L	No
Benzene	11-JAN-22	< 0.32	ug/L	No
Benzo(a)pyrene	11-JAN-22	< 0.004	ug/L	No
Bromoxynil	11-JAN-22	< 0.33	ug/L	No
Carbaryl	11-JAN-22	< 0.05	ug/L	No
Carbofuran	11-JAN-22	< 0.01	ug/L	No
Carbon Tetrachloride	11-JAN-22	< 0.17	ug/L	No
Chlorpyrifos	11-JAN-22	< 0.02	ug/L	No
Diazinon	11-JAN-22	< 0.02	ug/L	No



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Dicamba	11-JAN-22	< 0.20	ug/L	No
1,2-Dichlorobenzene	11-JAN-22	< 0.41	ug/L	No
1,4-Dichlorobenzene	11-JAN-22	< 0.36	ug/L	No
1,2-Dichloroethane	11-JAN-22	< 0.35	ug/L	No
1,1-Dichloroethylene (vinylidene chloride)	11-JAN-22	< 0.33	ug/L	No
Dichloromethane	11-JAN-22	< 0.35	ug/L	No
2-4 Dichlorophenol	11-JAN-22	< 0.15	ug/L	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	11-JAN-22	< 0.19	ug/L	No
Diclofop-methyl	11-JAN-22	< 0.40	ug/L	No
Dimethoate	11-JAN-22	< 0.06	ug/L	No
Diquat	11-JAN-22	< 1	ug/L	No
Diuron	11-JAN-22	< 0.03	ug/L	No
Glyphosate	11-JAN-22	< 1	ug/L	No
Malathion	11-JAN-22	< 0.02	ug/L	No



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2 methyl-4-chlorophenoxyacetic acid (MCPA)	11-JAN-22	< 0.00012	mg/L	No
Metolachlor	11-JAN-22	< 0.01	ug/L	No
Metribuzin	11-JAN-22	< 0.02	ug/L	No
Monochlorobenzene	11-JAN-22	< 0.3	ug/L	No
Paraquat	11-JAN-22	< 1	ug/L	No
Pentachlorophenol	11-JAN-22	< 0.15	ug/L	No
Phorate	11-JAN-22	< 0.01	ug/L	No
Picloram	11-JAN-22	< 1	ug/L	No
Polychlorinated Biphenyls (PCB)	11-JAN-22	< 0.04	ug/L	No
Prometryne	11-JAN-22	< 0.03	ug/L	No
Simazine	11-JAN-22	< 0.01	ug/L	No
Trihalomethanes (THMs) (Running annual average)	04-OCT-22	58.5	ug/L	No
Haloacetic acids (HAAs) (Running annual average)	04-OCT-22	54.4	ug/L	No



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Terbufos	11-JAN-22	< 0.01	ug/L	No
Tetrachloroethylene	11-JAN-22	< 0.35	ug/L	No
2,3,4,6-Tetrachlorophenol	11-JAN-22	< 0.20	ug/L	No
Triallate	11-JAN-22	< 0.01	ug/L	No
Trichloroethylene	11-JAN-22	< 0.44	ug/L	No
2,4,6-Trichlorophenol	11-JAN-22	< 0.25	ug/L	No
Trifluralin	11-JAN-22	< 0.02	ug/L	No
Vinyl Chloride	11-JAN-22	< 0.17	ug/L	No

Inorganic or Organic parameter(s) that have exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards:

None.



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2022 Summary Report to Council

In accordance with Schedule 22 requirements outlined in Ontario Regulation 170/03, a Summary Report shall be prepared no later than March 31 for the preceding year, and supplied to members of municipal council.

The Report shall list the requirements of the Act, Regulations, Drinking Water Works Permit, Municipal Drinking Water Licence, and any Orders applicable to the system that were not met at any time during the period covered by the Report.

The Report must also include a summary of the quantities and flow rates of potable (drinkable) water supplied during the Reporting Period, including monthly average and maximum daily flows. A comparison of these flows to the rated capacity and flow rates approved in the system Drinking Water Works Permit, and Municipal Drinking Water Licence, must also be provided.

Prescribed Instruments applicable to the Trenton DWS

The Trenton DWS is governed by, and must operate their DWS primarily in accordance with, the following Acts and Regulations at minimum:

- Safe Drinking Water Act, 2002;
- O. Reg. 128/04 – Certification of Drinking Water System Operators and WQA
- O. Reg. 170/03 – Drinking Water Systems
- O. Reg. 169/03 – Ontario Drinking Water Quality Standards
- Environmental Protection Act, where applicable;
- Clean Water Act, where applicable;
- Municipal Drinking Water Licence 163-102;
- Drinking Water Works Permit 163-202;
- Permit to Take Water 1007-9HJP6L, expires April 30, 2024.



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Councillors wishing to obtain a copy of any Act or Regulation are welcome to contact the Compliance Coordinator at collette.kingdon@quintewest.ca to obtain a current consolidated copy and interpretation of the legislation.

Compliance with Prescribed Instruments, Acts and Regulations

Safe Drinking Water Act

In addition to the two Adverse Water Quality events detailed in section [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 during this Reporting Period](#), the following noteworthy activities occurred throughout the Reporting Period.

NSF International conducted a Re-certification Audit from December 13-15, 2022. The intent of the audit is to confirm continued conformance to the Drinking Water Quality Management Standard. The City received its Entire Full Scope Accreditation, with no Non-Conformances identified in the Audit Report. Four (4) Opportunities for Improvement (OFI) were identified.

The City achieved a 100% Inspection Rating on its 2022 MECP Compliance Inspection conducted on August 4, 2022. There was one (1) non-compliance cited for the Total Residual Chlorine exceedance, referred to in section [Summary of additional testing and sampling carried out in accordance with the requirement of an Approval, Order, or other Legal Instrument](#).



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Clean Water Act

The Source Protection Plan was approved by the Minister of Environment, Conservation and Parks, and came into effect on January 1, 2015. The City has put the necessary internal processes in place with the Planning, Building, and Public Works Departments to screen applications and ensure compliance with the Source Protection Plan. In 2022 there were eleven (11) applications submitted to the Risk Management Official for review and approval specific to the Trenton system. In general the screening, application, and approval processes implemented by staff seem to be working reasonably well. Throughout the screening and verification process it has been determined that currently there are three (3) Risk Management Plans (RMPs) required for affected properties in the Intake Protection Zone surrounding the Trenton Intake. In 2022, one (1) RMP was completed and two (2) remain outstanding.

Permit to Take Water

The City operates its Trenton Water Treatment Plant in accordance with Permit to Take Water (PTTW) number 1007-9JHP6L which expires on April 30, 2024. This Permit allows the City to take 35,800 cu.m/day from the Trent River watershed at a maximum flow rate of 530.4 L/s. The maximum recorded daily taking was 16,413.2 cu.m/day on August 5, 2022. The maximum recorded flow rate was 479.3 L/s on December 19, 2022.

For a detailed summary of water quantities and flow rates, [see 2022 Water Quantity and Flow Rates \(Raw Water Assessment\)](#).



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Drinking Water Works Permit/Municipal Drinking Water Licence

The Trenton/Bayside DWS is governed by Number: 05 of Municipal Drinking Water Licence number 163-102, and Issue Number: 08 of Drinking Water Works Permit number 163-202. The Municipal Drinking Water Licence will expire September 28, 2025.

In accordance with Condition 1.1 of the MDWL, the Trenton Water Treatment Plant has a rated capacity to treat and distribute 35,800 cu.m/day. Over the Reporting Period the maximum daily volume of treated water distributed to the distribution system was 15,284.4 cu.m/day on August 6, 2022. The Annual Average Daily Flow pumped to the Distribution System was 9,688.2 cu.m/day. For a detailed summary of treated water quantities and flow rates, see [2022 Water Quantity and Flow Rates \(Treated Water Assessment\)](#).



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2022 Water Quantity and Flow Rates (Raw Water Assessment):

Raw Water Flow: PTTW Limit = 35,800 cu.m/d			
Month	Average Daily Flow (cu.m/d)	Maximum Daily Flow (cu.m/d)	Total Monthly Flow (cu.m/month)
January	9559.2	10504.2	296336.5
February	9664.6	10546.9	270610.1
March	9817.7	11127.7	304349.1
April	9987.2	10812.6	299616.2
May	10998.0	13103.9	340939.2
June	11804.3	13591.1	354130.3
July	12557.3	14213.8	389276.6
August	13145.9	16413.2	407524.3
September	10808.2	12204.8	324245.9
October	9965.1	14511.8	308917.1
November	9923.8	11155.2	297713.4
December	9746.8	12049.6	302149.5
Total Raw Water Flow =			3,895,808



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2022 Water Quantity and Flow Rates (Treated Water Assessment):

Treated Water Flow: Facility Rated Capacity = 35,800 cu.m/day			
Month	Average Daily Flow (cu.m/d)	Maximum Daily Flow (cu.m/d)	Total Monthly Flow (cu.m/month)
January	8523.2	9413.3	264218.9
February	8549.5	9074.8	239386.3
March	8673.4	9354.0	268875.5
April	9074.5	9723.2	272235.9
May	9991.0	12247.3	309721.6
June	10871.4	12457.3	326141.8
July	11602.2	12956.8	359668.4
August	12155.0	15284.4	376804.6
September	9882.8	11338.8	296482.7
October	9052.2	13431.8	280617.7
November	9030.1	10174.7	270904.1
December	8852.7	10892.8	274434.4
Total Treated Water Flow =			3,539,492

- Annual Average Daily (Treated Water) Flow = 9,688.2 cu.m/day. This accounts for 27% of the facility Rated Capacity.
- Maximum Daily (Treated Water) Flow = 15,284.4 cu.m/day. This accounts for 43% of the facility Rated Capacity during record peak daily flow conditions.



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The 5-year ADF of Treated Water is calculated to be 9,679 cu.m/day, accounting for just 27% of the facility rated capacity.

