2024 SECTION 22 SUMMARY REPORT

WIARTON DRINKING WATER SYSTEM

For the period of:
JANUARY 1, 2024 TO DECEMBER 31, 2024

Prepared for the Town of South Bruce Peninsula by the Ontario Clean Water Agency

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Town of SOUTH BRUCE PENINSULA

Drinking Water System Regulation: O. Reg 170/03
Schedule 22 Summary Report: January 1, 2024 to December 31, 2024
Town of South Bruce Peninsula: Wiarton Drinking Water System

This report was prepared in accordance with the requirements of *O.Reg 170/03, Schedule 22, Summary Reports for Municipalities* for the following system and reporting period:

Drinking-Water System Number:	220002681
Drinking-Water System Name:	Wiarton Drinking Water System
Drinking-Water System Owner:	The Town of South Bruce Peninsula
Drinking-Water System Category:	Large Municipal Residential
Period being reported:	January 1, 2024 – December 31, 2024

1. Issue(s) of Non-Compliance

The Ministry of Environment, Conservation and Parks (MECP) Drinking Water System Inspection was conducted on December 11, 2024 for the period covering December 15, 2023 to December 11, 2024. On March 5, 2025 the Inspection Report was issued and an Inspection Rating Record (IRR) of 100% received.

The following is a summary of non-compliances noted in the MECP Inspection Reports, as well as the duration and the measures that were taken to correct the non-compliance. If any self-reported non-compliances were included in the inspection report, they will be noted in Table 1.

Table 1. Non-Compliances and Corrective Actions noted in the 2023/2024 MECP Inspection Report

Non-Compliance(s)	Duration	Required Actions & Corrective Actions
N/A	N/A	N/A

Table 2 summarizes incidents interpreted the Operating Authority as instances where any requirements of the Act, the regulations, the system's approval, the drinking water works permit (DWWP), the municipal drinking water licence (MDWL), and any orders applicable were not met. The Operating Authority reported the following incidents to the MECP and confirmation of whether the incidents are considered non-compliance is noted in the MECP Inspection Report and included in Table 1.

Table 2. Self-Reported Incidents and Corrective Actions for the Reporting Period

Incident	Duration	Corrective Actions
N/A	N/A	N/A

For information on any Adverse Water Quality Incident(s) that may have occurred during the reporting period, please refer to the Wiarton Drinking Water System Annual Report (Section 11).

2. Assessment of Flowrates and Quantity of Water Supplied

The following tables summarize the quantities and flow rates of water supplied during the reporting period, including monthly averages and maximum daily flows as well as a comparison to the rated capacity and flow rates approved in the system's approval, DWWP or MDWL.

As required by the MDWL, regulatory flow measuring devices are checked/verified and where necessary, calibrated. These checks/verifications/calibrations are performed annually by a third party to ensure the flow measuring devices are within acceptable deviation limits.

2.1 Treated Water

Municipal Drinking Water License (MDWL):	094-102 (Issue Number: 4)
Allowable Rated Capacity:	5,400 m^3/day
Allowable Flowrate into Treatment System:	N/A

As per the MDWL, the maximum daily volume of treated water that flows from the treatment subsystem to the distribution system shall not exceed the listed rated capacity. However, the MDWL allows a system to be operated temporarily at a maximum daily volume and/or a maximum flowrate above the values set out in the MDWL for the purposes of fighting a large fire or for the maintenance of the drinking water system.

Table 3. Treated Water Annual and Monthly Average and Maximum Flows with Comparison to Rated Capacity and Total Volume for 2024

Treated Water Flow					
Timeframe	**Average Flow (m^3/day)**	**Percent of Rated Capacity**	**Maximum Flow (m^3/day)**	**Percent of Rated Capacity**	**Total Volume (m^3)**
January	882	16.3%	1,166	21.6%	27,340
February	938	17.4%	1,156	21.4%	27,205
March	923	17.1%	1,200	22.2%	28,622
April	914	16.9%	1,287	23.8%	27,408
May	965	17.9%	1,313	24.3%	29,900
June	1,043	19.3%	1,401	25.9%	31,281
July	1,134	21.0%	1,457	27.0%	35,164
August	1,131	20.9%	1,469	27.2%	35,059
September	1,019	18.9%	1,517	28.1%	30,580
October	927	17.2%	1,264	23.4%	28,732
November	920	17.0%	1,363	25.2%	27,610
December	902	16.7%	1,346	24.9%	27,961
2024	**975**	**18.1%**	**1,517**	**28.1%**	**356,863**

A review of flow information for the reporting period indicates that the drinking water system operated within the rated capacity specified in the MDWL, for the maximum treated volume of treated water that flows from the treatment subsystem to the distribution system.

Table 4. Treated Water Annual and Monthly Average and Maximum Flowrates for 2024

Treated Water Flowrate		
Timeframe	**Average Flowrate (L/sec)**	**Maximum Flowrate (L/sec)**
January	67.04	76.54
February	66.76	74.91
March	67.27	84.80
April	67.55	83.35
May	67.26	84.04
June	67.00	79.81
July	66.78	83.12
August	67.09	83.05
September	67.00	83.73
October	67.09	82.71
November	66.98	75.68
December	67.77	76.19
2024	**67.14**	**84.80**

The applicable MDWL for the reporting period did not list a maximum allowable limit for the flowrate of water that flows into a treatment subsystem. A summary of flowrates of water that flows into the treatment system can be found in Table 6.

2.2 Raw Water

Permit to Take Water Number:	1354-CWWSNN
Allowable Maximum Raw Water Volume – Colpoy's Bay:	5,394.1 m^3/day
Allowable Maximum Raw Water Flowrate – Colpoy's Bay:	3,746 L/min (62.43 L/sec)

As per the PTTW, water shall only be taken from the specified source(s) and at the rates and amounts taken as specified in the permit.

Table 5. Raw Water Monthly Average, Maximum Flow and Total Volume for 2024

Raw Water Flow – Colpoy's Bay					
Timeframe	**Average Flow (m^3/day)**	**Percent of Allowable Volume**	**Maximum Flow (m^3/day)**	**Percent of Allowable Volume**	**Total Volume (m^3)**
January	966	17.9%	1,293	24.0%	29,941
February	1,031	19.1%	1,357	25.2%	29,912
March	1,021	18.9%	1,362	25.3%	31,663
April	1,004	18.6%	1,396	25.9%	30,115
May	1,044	19.4%	1,401	26.0%	32,369
June	1,151	21.3%	1,409	26.1%	34,544
July	1,234	22.9%	1,603	29.7%	38,257
August	1,213	22.5%	1,563	29.0%	37,588
September	1,081	20.0%	1,443	26.8%	32,427
October	993	18.4%	1,391	25.8%	30,779
November	1,010	18.7%	1,470	27.2%	30,302
December	981	18.2%	1,482	27.5%	30,402
2024	**1,061**	**19.7%**	**1,603**	**29.7%**	**388,298**

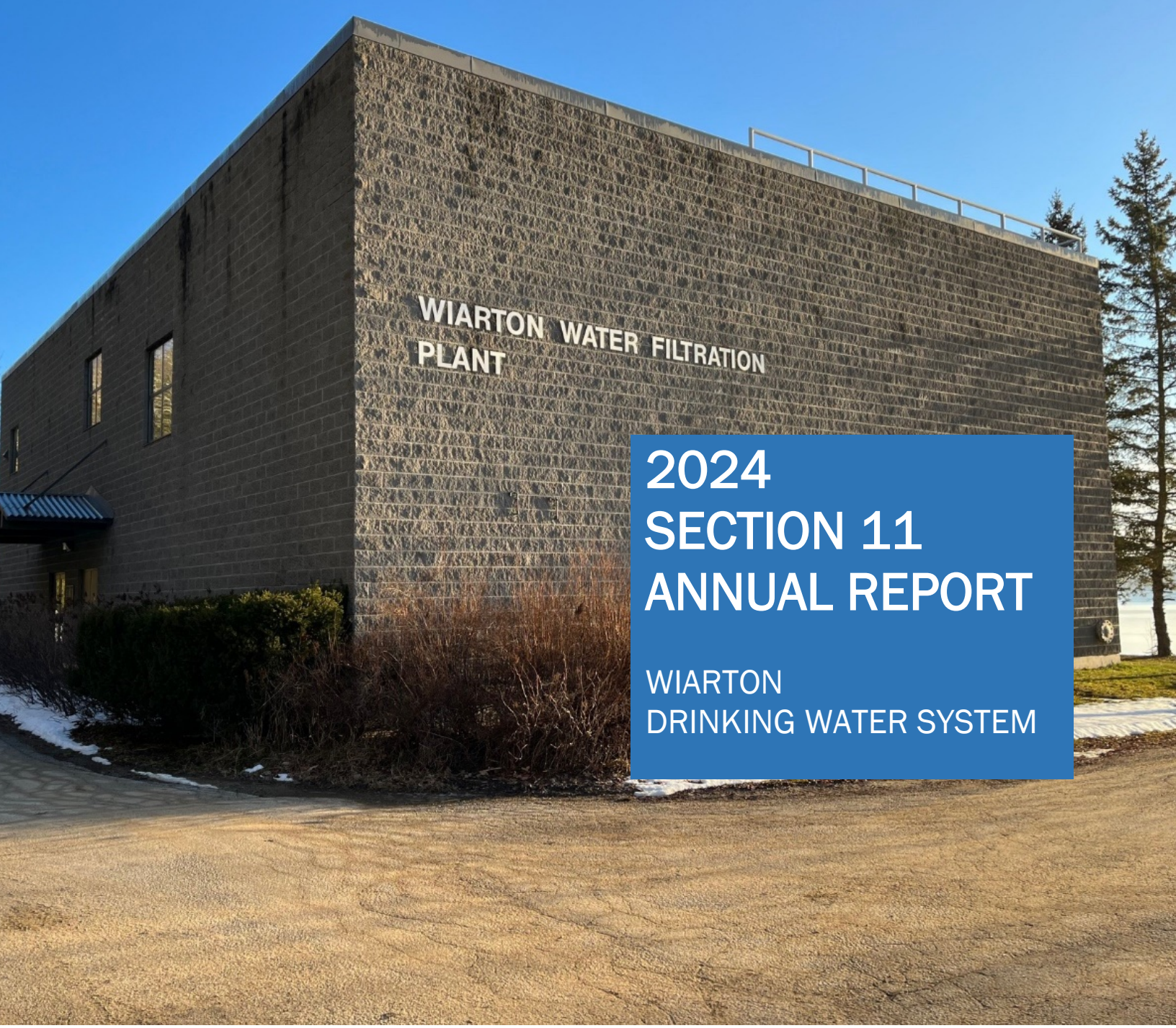
A review of flow information for the reporting period indicates that the system operated within the PTTW's maximum allowable daily raw water volume.

Table 6. Raw Water Annual and Monthly Average and Maximum Flowrates for 2024

Raw Water Flowrate		
Timeframe	**Average Flowrate (L/sec)**	**Maximum Flowrate (L/sec)**
January	46.24	52.06
February	46.22	52.55
March	46.19	51.73
April	46.11	67.80[6a]
May	45.45	69.71[6a]
June	44.82	52.63
July	46.72	52.88
August	46.55	52.61
September	46.57	52.60
October	46.49	50.98
November	46.18	51.28
December	45.95	50.72
2024	**46.12**	**69.71[6a]**

[6a]*The PTTW defines the maximum flowrate as 3,746 L/min which has been converted it to 62.43 L/s for the table above. There was a spike in flow rate on April 23, 2024 for 10 seconds and on May 3 and May 29, 2024 for 50 seconds each. These are not considered exceedances since the PTTW states that the Maximum Taken per Minute (litres) may be increased to 4,500 litres per minute for a period of not greater than one hour to allow for pump start-up circumstances.*

A review of flow information for the reporting period indicates that the system operated within the PTTW's maximum allowable raw water flowrate.



2024 SECTION 11 ANNUAL REPORT

WIARTON DRINKING WATER SYSTEM

For the period of:
JANUARY 1, 2024 TO DECEMBER 31, 2024

Prepared for the Town of South Bruce Peninsula by the Ontario Clean Water Agency

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Town of SOUTH BRUCE PENINSULA

Drinking Water System Regulation: O. Reg 170/03
Section 11 Annual Report: January 1, 2024 to December 31, 2024
Town of South Bruce Peninsula: Wiarton Drinking Water System

This report was prepared in accordance with the requirements of *O.Reg 170/03, Section 11, Annual reports* for the following system and reporting period:

Drinking Water System Number:	220002681
Drinking Water System Name:	Wiarton Drinking Water System
Drinking Water System Owner:	Town of South Bruce Peninsula
Drinking Water System Category:	Large Municipal Residential
Reporting Period:	January 1, 2024 – December 31, 2024

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

No

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

Yes

Note: If a large municipal residential system serves more than 10,000 people, the owner of the system shall ensure that a copy of every report prepared under this section is available to the public at no charge on a website on the Internet. O. Reg. 170/03, Section 11. (10)

Location where Summary Report required under O. Reg 170/03, Schedule 22 will be available for inspection. *(O. Reg 170/03, Section 11.(6)(5))*:

- Town of South Bruce Peninsula, 315 George Street, Wiarton ON, N0H 2T0
- https://www.southbrucepeninsula.com/en/town-hall/water-and-sewer-reports.aspx

List all Drinking Water Systems (if any), which receive all of their drinking water from your system:

Drinking Water System Name	Drinking Water System Number
Oliphant Drinking Water System	220007695
Oxenden Distribution System	260004215

Did you provide a copy of your annual report to all Drinking Water System owners that are connected to you and to whom you provide all of its drinking water?

Yes

How system users are notified that the annual report is available, and is free of charge:

X	Public access/notice via the web
X	Public access/notice via Government Office
	Public access/notice via a newspaper
X	Public access/notice via Public Request
	Public access/notice via a Public Library

☐ Public access/notice via other method: _____

Note: The owner of a drinking water system shall ensure that a copy of an annual report for the system is given, without charge, to every person who requests a copy. ((O.Reg 170/03, Section 11.(7)).

Description of Drinking Water System *(O.Reg 170/03, Section 11.(6)(a)):*

The Wiarton Drinking Water System (DWS) is classified as a Class III Treatment and Class II Distribution. It is categorized under O.Reg 170/03 as a Large Municipal Residential Drinking Water System servicing an approximate population of 2,300 persons. The Wiarton Drinking Water System is owned by the Corporation of the Town of South Bruce Peninsula and operated by the Ontario Clean Water Agency (OCWA) in Wiarton, Ontario.

The Wiarton Water Treatment Plant is supplied by Colpoy's Bay (Georgian Bay) and the treatment system consists of the following components:

- Sodium hypochlorite (pre-chlorination for zebra mussel control and chlorination after filtration)
- A bar screen and standby travelling screen (low lift station section)
- Coagulation and Flocculation
- Filtration (dual media gravity filters)
- Waste Residual Management (filter backwash wastewater sedimentation tank with sludge withdrawal. Sludge is discharged to the sanitary sewer and the supernatant is dechlorinated and then discharged to Colpoy's Bay)
- Polymer system (for enhancing settling in the wastewater sedimentation tank)
- Sodium Bisulphite feed system (prior to flocculation or to raw water well for dechlorination/pH correction and to the wastewater residual management system for dechlorination)
- UV Disinfection System
- Activated carbon feed system for taste and odour control (currently is not being used)
- Clearwell (for storage and to achieve required contact time)
- SCADA System (for monitoring and control)
- Diesel generator set (for emergency back-up power)

The distribution system consists of the following:

- Wiarton Standpipe and Booster Station.
- Approximately 23.5 kilometers of distribution water mains

The Wiarton water treatment plant also supplies treated drinking water via transportation to Oliphant DWS, located within the Town of South Bruce Peninsula and Oxenden DS, which is located within the Town of Georgian Bluffs.

List of water treatment chemicals used by the system during the reporting period *(O.Reg 170/03, Section 11.(6)(a)):*

- Sodium Hypochlorite 12%
- PAX-XL1900 Coagulation
- LIPQIPAM A-307PG Flocculation
- Sodium Metabisulfite

Significant expenses were incurred to:

X	Install required equipment
X	Repair required equipment
X	Replace required equipment
	No significant expenses were incurred

Description of major expenses during the reporting period to install, repair or replace required equipment (O.Reg 170/03, Section 11.(6)(e)):

- High lift pump installed
- Chlorine dosing system repairs
- HMI screen for UV system
- Distribution repair parts

Summary of any reports/notices submitted to the Ministry and/or Spills Action Centre in accordance with subsection 18(1) of the Safe Drinking-Water Act or section 16-4 of Schedule 16 of O.Reg.170/03 during the reporting period, including a description of any corrective actions taken under Schedule 17 or 18 *(O. Reg 170/03, Section 11.(6)(b),(d):*

Incident Date (yyyy/mm/dd)	**Parameter/ Notice of**	**Result & Unit**	**Summary of Reporting, Corrective Actions & Resolution**
2024/02/26	Treated Water: Microbiological; Total Coliform	8 cfu/100 mL	• AWQI #164537- Adverse treated water microbiological sampling results for total coliforms • Verbal notification provided to SAC, Grey Bruce Health Unit (GBHU), and MECP on February 28, 2024. Written notification of incident sent February 29, 2024- No further actions required • As per O.Reg 170/03, Schedule 17-6, resamples were collected February 28, February 29, and March 1, 2024. All lab results were 0 cfu/100mL *E. coli* and 0 cfu/100mL Total Coliforms

			• Written notice of resolution submitted on March 4, 2024

Table 1. Microbiological testing done under the Schedule 11 of Regulation 170/03 during this reporting period *(O.Reg 170/03, Section 11.(6)(c)).*

Location	Number of Samples	Range of E. Coli or Fecal Results		Range of Total Coliform Results		Number of HPC Samples	Range of HPC Samples	
		Min.	Max.	Min.	Max.		Min.	Max.
Raw[1a]	55	0	30	0	66	N/A	N/A	N/A
Treated[1b]	57	0	0	0	8	54	0	18
Distribution[1c]	166	0	0	0	0	54	0	1

Note: HPC = Heterotrophic Plate Count

Note: Units for E.Coli or Fecal Results are cfu/100 mL, units for Total Coliform Results are cfu/100 mL, units for HPC results are cfu/1mL.

[1a]O.Reg 170/03, Schedule 10-4. (1)(3) requires for a large municipal residential system that a water sample is taken at least once every week from the drinking water system's raw water, before any treatment is applied to the water and tested for E.Coli and total coliforms.

[1b]O Reg 170/03, Schedule 10-3 requires for a large municipal residential system that a treated water sample is taken at least once every week and tested for E.Coli, total coliforms and general bacteria population expressed as colony counts on a heterotrophic count (HPC).

[1c]O.Reg. 170/03 Schedule 10-2.(1)(2)(3) requires that a system that serves 100,000 people or less, at least eight distribution samples, plus one additional sample for every 1,000 people served by the system to be taken every month, with at least one of the samples being taken in each week and be tested for E.Coli, Total Coliforms. At least 25 percent of the samples required must be tested for general bacteria population expressed as colony counts on heterotrophic plate count (HPC). The number of people served by the system is 2,300 (as confirmed with the Owner on March 9, 2023), and therefore requires a minimum of ten distribution samples per month.

Table 2. Operational testing done under Schedule 7 of Regulation 170/03 during the period covered by this Annual Report *(O. Reg 170/03, Section 11.(6)(c)).*

Parameter & Location	Number of Samples	Range of Results	
		Min.	Max.
Turbidity, Filter A (NTU)[2a]	8760	0.00	0.23
Turbidity, Filter B (NTU)[2a]	8760	0.00	0.27
Free Chlorine Residual, Treated Water (mg/L)[2b]	8760	0.54[2d]	2.12
Free Chlorine Residual, Distribution Water (mg/L)[2c]	1004	0.50	1.54

Note: The number of samples used for continuous monitoring units is 8760.

[2a]If a drinking water system obtains water from a raw water supply that is surface water and the system provides filtration, subsection 7-3(1) does not apply and the owner of a system shall ensure

that sampling and testing for turbidity is carried out by continuous monitoring equipment on each filter effluent line (O.Reg.170/03, Schedule 7-3.(2)(b)). Monthly filter efficiency requirements met.

[2b]O.Reg 170/03 Schedule 7-2.(1) requires a drinking water system that provides chlorination for primary disinfection to sample and test for free chlorine residual with continuous monitoring equipment in the treatment process at or near a location where the intended contact time has just been completed.

[2c]O.Reg 170/03 Schedule 7-2.(3) requires a large municipal residential system that provides secondary disinfection to take at least seven distribution samples each week and immediately tested for free chlorine residual, if the system provides chlorination and does not provide chloramination, unless at least one sample is taken on each day of the week. At Wiarton DWS, secondary disinfection is monitored by taking one sample each day of the week.

[2d]Low chlorine residual on November 18, 2024 was due to a leak on the dosing pump. No adverse water was distributed to users, CT met.

Table 3. Summary of additional testing and sampling results carried out in accordance with the requirement of an approval, municipal drinking water licence or order (including OWRA) or other legal instrument. *(O. Reg 170/03, Section 11.(6)(c))*

Legal Instrument & Issue Date (yyyy/mm/dd)	**Parameter**	**Date Sampled**	**Number of Samples**	**Annual Average**	**Allowable Annual Average**
2020-03-06 MDWL #094-102 (Issue 4)	Total Suspended Solids (Filter backwash)	2024 (Monthly)	12	8.1	25 mg/L
2020-03-06 MDWL #094-102 (Issue 4)	Total Chlorine Residual (Filter backwash)	2024 (Monthly)	12	0.00	0.02 mg/L

Table 4. Summary of Inorganic parameters tested during this reporting period or the most recent sample results *(O.Reg 170/03, Section 11.(6)(c))*

Parameter & Location	**Sample Date[4a]** (yyyy/mm/dd)	**Sample Result**	**Maximum Allowable Concentration (MAC)**	**Exceedance of MAC**
Antimony: Sb (µg/L) - TW	2024/01/02	<MDL 0.6	6.0	No
Arsenic: As (µg/L) - TW	2024/01/02	0.3	10.0	No
Barium: Ba (µg/L) - TW	2024/01/02	12.7	1000.0	No
Boron: B (µg/L) - TW	2024/01/02	14.0	5000.0	No
Cadmium: Cd (µg/L) - TW	2024/01/02	<MDL 0.003	5.0	No
Chromium: Cr (µg/L) - TW	2024/01/02	0.12	50.0	No
Mercury: Hg (µg/L) - TW	2024/01/02	<MDL 0.01	1.0	No

Parameter & Location	Sample Date[4a] (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Selenium: Se (µg/L) - TW	2024/01/02	0.1	50.0	No
Uranium: U (µg/L) - TW	2024/01/02	0.081	20.0	No
Fluoride (mg/L) - TW	2023/01/03[4b]	<MDL 0.06	1.5	No
Nitrite (mg/L) - TW	2024/01/02	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW	2024/04/02	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW	2024/07/02	<MDL 0.003	1.0	No
Nitrite (mg/L) - TW	2024/10/01	<MDL 0.003	1.0	No
Nitrate (mg/L) - TW	2024/01/02	0.254	10.0	No
Nitrate (mg/L) - TW	2024/04/02	0.251	10.0	No
Nitrate (mg/L) - TW	2024/07/02	0.235	10.0	No
Nitrate (mg/L) - TW	2024/10/01	0.204	10.0	No

Note: MDL = Minimum Detection Limit, TW = Treated Water

[4a]The owner of a large municipal residential system that obtains water from a raw water supply that is surface water shall ensure that at least one water sample for inorganics is taken every 12 months (O.Reg 170/03, Schedule 13-2.(1)). The last set of samples were collected and tested in 2024, the next set of samples are scheduled to be collected and tested in 2025.

[4b]Fluoride is reportable every 60 months. The most recent Fluoride samples were tested in 2023. The next set of samples is scheduled to be tested in 2028.

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result	Aesthetic Objective (AO)	Exceedance	
				AO	> 20 mg/L
Sodium: Na (mg/L) - TW	2023/01/03[4c]	6.7	200	No	No

Note: MDL = Minimum Detection Limit, TW = Treated Water

Note: There is no regulatory Maximum Allowable Concentration (MAC) for Sodium. The aesthetic objective (AO) for sodium in drinking water is 200 mg/L. The local Medical Officer of Health should be notified when the sodium concentration exceeds 20 mg/L so that this information may be communicated to local physicians for their use with patients on sodium restricted diets.

[4c]Sodium is reportable every 60 months. The most recent Sodium samples were tested in 2023, the next set of reportable samples is scheduled to be tested in 2028

Table 5: Summary of lead testing under Schedule 15.1 during this reporting period (O.Reg 170/03, Section 11.(6)(g))

Location/Type & Parameter	Number of Samples[5a]	Range of Results		Number of Lead Exceedances (MAC = 10 µg/L)
		Min.	Max.	
Period: January 1 to April 15				
Plumbing – Lead (µg/L)[5b]	N/A	N/A	N/A	N/A
Distribution – Lead (µg/L)[5c]	2	0.02	0.06	0
Distribution – Alkalinity (mg/L as $CaCO_3$)	4	72	72	N/A
Distribution – pH	4	7.96	8.06	N/A
Period: June 15 to October 15				
Plumbing – Lead (µg/L)[5b]	N/A	N/A	N/A	N/A
Distribution – Lead (µg/L)[5c]	2	0.05	0.06	0
Distribution – Alkalinity (mg/L as $CaCO_3$)	4	74	79	N/A
Distribution – pH	4	8.07	8.28	N/A
Period: December 15 to 31				
Plumbing – Lead (µg/L)[5b]	N/A	N/A	N/A	N/A
Distribution – Lead (µg/L)[5c]	N/A	N/A	N/A	N/A
Distribution – Alkalinity (mg/L as $CaCO_3$)	N/A	N/A	N/A	N/A
Distribution - pH	N/A	N/A	N/A	N/A

Note: this is required for large municipal residential systems, small municipal residential systems or non-municipal year-round residential system. (O.Reg 170/03, Section 11.(6)(g))

[5a]This system follows a reduced sampling schedule (O.Reg. 170/03, Section 15.1.5). The number of sampling points for the system is based on the population served by the system. The number of people served by the system is 2,300 (as confirmed with the Owner on March 9, 2023), and therefore requires 2 distribution sampling points per sampling period.

[5b]Plumbing samples are not applicable as this system qualifies for the plumbing exemption per O. Reg 170/03 Schedule 15.1-5 (9) (10).

[5c]This system follows a reduced sampling schedule (O.Reg 170/03, Section 15.1.5). Distribution lead samples are collected every 36 months. The most recent set of distribution lead samples were collected within the winter period of December 15, 2023 to April 15, 2024 and summer period of June 15, 2024 to October 15, 2024. The next set of distribution lead samples is scheduled to be collected within the winter period of December 15, 2026 to April 15, 2027 and summer period of June 15, 2027 to October 15, 2027.

Table 6: Summary of Organic parameters sampled during this reporting period or the most recent sample results *(O.Reg 170/03, Section 11.(6)(c)).*

Parameter & Location	Sample Date[6a] (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Alachlor (µg/L) - TW	2024/01/02	<MDL 0.02	5.0	No
Atrazine + N-dealkylated metabolites (µg/L) - TW	2024/01/02	<MDL 0.01	5.0	No
Azinphos-methyl (µg/L) - TW	2024/01/02	<MDL 0.05	20.0	No
Benzene (µg/L) - TW	2024/01/02	<MDL 0.32	1.0	No
Benzo(a)pyrene (µg/L) - TW	2024/01/02	<MDL 0.004	0.01	No
Bromoxynil (µg/L) - TW	2024/01/02	<MDL 0.33	5.0	No
Carbaryl (µg/L) - TW	2024/01/02	<MDL 0.05	90.0	No
Carbofuran (µg/L) - TW	2024/01/02	<MDL 0.01	90.0	No
Carbon Tetrachloride (µg/L) - TW	2024/01/02	<MDL 0.17	2.0	No
Chlorpyrifos (µg/L) - TW	2024/01/02	<MDL 0.02	90.0	No
Diazinon (µg/L) - TW	2024/01/02	<MDL 0.02	20.0	No
Dicamba (µg/L) - TW	2024/01/02	<MDL 0.2	120.0	No
1,2-Dichlorobenzene (µg/L) - TW	2024/01/02	<MDL 0.41	200.0	No
1,4-Dichlorobenzene (µg/L) - TW	2024/01/02	<MDL 0.36	5.0	No
1,2-Dichloroethane (µg/L) - TW	2024/01/02	<MDL 0.35	5.0	No
1,1-Dichloroethylene (µg/L) - TW	2024/01/02	<MDL 0.33	14.0	No
Dichloromethane (Methylene Chloride) (µg/L) - TW	2024/01/02	<MDL 0.35	50.0	No
2,4-Dichlorophenol (µg/L) - TW	2024/01/02	<MDL 0.15	900.0	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (µg/L) - TW	2024/01/02	<MDL 0.19	100.0	No
Diclofop-methyl (µg/L) - TW	2024/01/02	<MDL 0.4	9.0	No
Dimethoate (µg/L) - TW	2024/01/02	<MDL 0.06	20.0	No
Diquat (µg/L) - TW	2024/01/02	<MDL 1.0	70.0	No
Diuron (µg/L) - TW	2024/01/02	<MDL 0.03	150.0	No
Glyphosate (µg/L) - TW	2024/01/02	<MDL 1.0	280.0	No
Malathion (µg/L) - TW	2024/01/02	<MDL 0.02	190.0	No
Metolachlor (µg/L) - TW	2024/01/02	<MDL 0.01	50.0	No

Parameter & Location	Sample Date[6a] (yyyy/mm/dd)	Sample Result	Maximum Allowable Concentration (MAC)	Exceedance of MAC
Metribuzin (µg/L) - TW	2024/01/02	<MDL 0.02	80.0	No
Monochlorobenzene (Chlorobenzene) (µg/L) - TW	2024/01/02	<MDL 0.3	80.0	No
Paraquat (µg/L) - TW	2024/01/02	<MDL 1.0	10.0	No
PCB (µg/L) - TW	2024/01/02	<MDL 0.04	3.0	No
Pentachlorophenol (µg/L) - TW	2024/01/02	<MDL 0.15	60.0	No
Phorate (µg/L) - TW	2024/01/02	<MDL 0.01	2.0	No
Picloram (µg/L) - TW	2024/01/02	<MDL 1.0	190.0	No
Prometryne (µg/L) - TW	2024/01/02	<MDL 0.03	1.0	No
Simazine (µg/L) - TW	2024/01/02	<MDL 0.01	10.0	No
Terbufos (µg/L) - TW	2024/01/02	<MDL 0.01	1.0	No
Tetrachloroethylene (µg/L) - TW	2024/01/02	<MDL 0.35	10.0	No
2,3,4,6-Tetrachlorophenol (µg/L) - TW	2024/01/02	<MDL 0.2	100.0	No
Triallate (µg/L) - TW	2024/01/02	<MDL 0.01	230.0	No
Trichloroethylene (µg/L) - TW	2024/01/02	<MDL 0.44	5.0	No
2,4,6-Trichlorophenol (µg/L) - TW	2024/01/02	<MDL 0.25	5.0	No
2-methyl-4-chlorophenoxyacetic acid (MCPA) (µg/L) - TW	2024/01/02	<MDL 0.12	100.0	No
Trifluralin (µg/L) - TW	2024/01/02	<MDL 0.02	45.0	No
Vinyl Chloride (µg/L) - TW	2024/01/02	<MDL 0.17	1.0	No
Trihalomethane: Total (µg/L) Annual Average - DW	2024 (Quarterly)	40.1	100.0	No
HAA Total (µg/L) Annual Average - DW	2024 (Quarterly)	17.2	80.0	No

Note: DW = Distribution Water, TW = Treated Water, MDL = Minimum Detection Limit, MAC = Maximum Allowable Concentration

[6a]The owner of a large municipal residential system that obtains water from a raw water supply that is surface water shall ensure that at least one water sample for organics is taken every 12 months (O.Reg 170/03, Schedule 13-4.(1)). The last set of samples were collected and tested in 2024, the next set of samples are scheduled to be collected and tested in 2025.

Table 7: List of Inorganic or Organic parameter(s) that exceeded half the standard prescribed in Schedule 2 of Ontario Drinking Water Quality Standards for the reporting period.

Parameter & Location	Sample Date (yyyy/mm/dd)	Sample Result
N/A	N/A	N/A