

WTP-102 DRINKING WATER SYSTEM WATERWORKS # 220007132

SMALL MUNICIPAL RESIDENTIAL

ANNUAL WATER REPORT

PREPARED FOR
The Township of Ramara

SUBMITTED BY
Ontario Clean Water Agency
2115 Highway 12, Brechin, ON L0K 1B0

Reporting Period: January 1 – December 31, 2025

Issued: February 13, 2026

Revision: 0

Operating Authority: Ontario Clean Water Agency (OCWA)

This report has been prepared to satisfy the annual reporting requirements in O. Reg. 170/03 Section 11 and Schedule 22.

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1. Report Availability

This system does not serve more than 10,000 residence and the annual reports will be available to residents at the Township of Ramara Administration Office and on the Township’s website at www.ramara.ca. Notification that reports are available free of charge will be made on the Township of Ramara website. The Township of Ramara Administration Office is located at 2297 Highway 12, Brechin, ON L0K 1B0.

2. Compliance Report Card

Drinking Water System Number: 220007132

Drinking Water System Name: WTP-102 (Park Lane Subdivision DWS)

Drinking Water System Owner: Township of Ramara

Drinking Water System Category: Small Municipal Residential

Period Being Reported: January 1, 2025 - December 31, 2025

Health & Safety	Number of Events	Date	Details
Number of Incidents	0	N/A	N/A

Drinking Water	Number of Events	Date	Details
Ministry of the Environment Conservation and Parks (MECP) Inspections	1	October 1, 2025	Announced Focused Drinking Water Inspection for 2025 cycle. Final Inspection Rating of 100%
Adverse Water Quality Incidents (AWQI)	1	August 8, 2025	AWQI 169370 - Treated Water High Sodium Result
Number of Non-Compliances	0	N/A	N/A
Number of Boil Water Advisories	0	N/A	N/A

3. System Process Description

Raw Source

The Park Lane DWS is supplied with raw groundwater from two non-GUDI wells: Wells # 1, # 2.

Treatment

The treatment system consists of the following:

- Pre-chlorination system and potassium permanganate system for iron and manganese oxidation
- Two (2) greensand filters with backwash equipment and backwash waste storage/decant tank system
- Sodium hypochlorite secondary disinfection system
- One (1) standpipe reservoir for potable water storage
- A high lift pumping system
- Stand-by propane generator on-site

Treatment Chemicals used during the reporting year:

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Brenntag
Potassium Permanganate	Iron and Manganese Oxidation	Carus Chemical Company

4. Summary of Non-Compliance

Adverse Water Quality Incidents

Date	AWQI #	Location	Details	Legislation	Corrective Action Taken
August 8, 2025	169370	Treated Water	High Sodium Result of 66.1 mg/L	O. Reg 170/03	Re-sampled TW on August 11, 2025 result = 74.2 mg/L. Sodium Notices made public through the Township of Ramara.

Non-Compliance

Legislation	Requirement(s) system failed to meet	Duration of the failure (i.e., date(s))	Corrective Action	Status
There were no non-compliances identified during this reporting period.				

Non-Compliance Identified in a Ministry of the Environment Conservation and Parks Inspection:

Legislation	Requirement(s) system failed to meet	Duration of the failure (i.e., date(s))	Corrective Action	Status
There were no non-compliances identified in a Ministry of the Environment Conservation and Parks Inspection during this reporting period.				

Community Complaints

Date	Details of Complaint	Corrective Action
There were no community complaints reported during this period.		

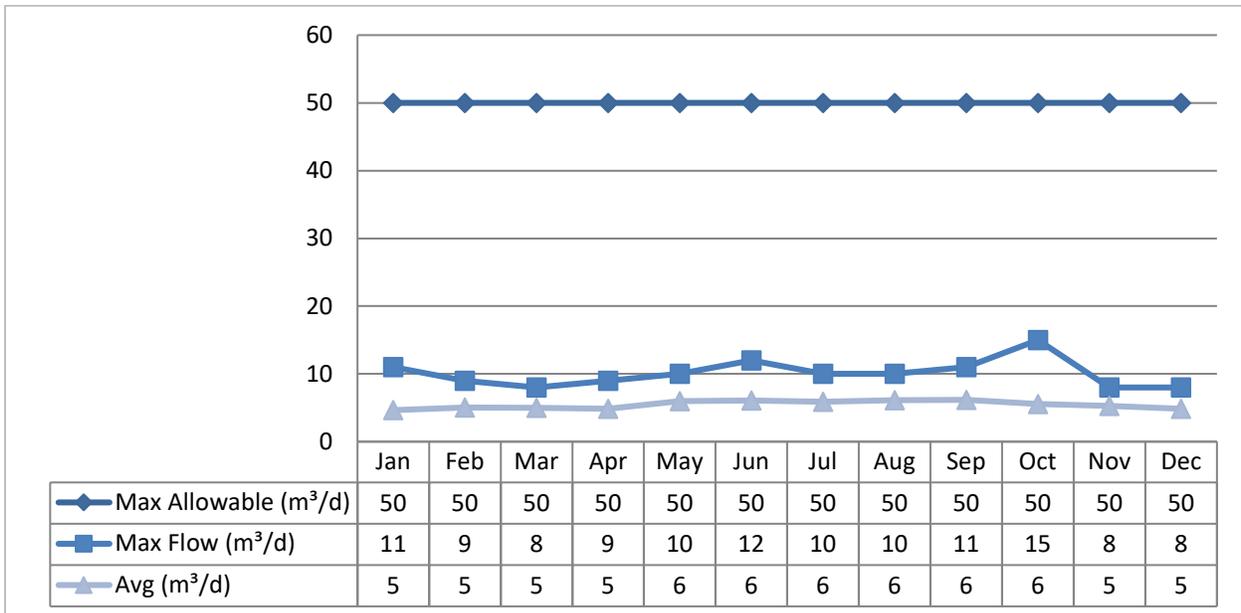
Flows

Raw Water Flows

The Raw Water flows are not regulated under a Permit to Take Water as they remain below 50m³/day. The Raw Water flows are regulated under the Municipal Drinking Water Licence.

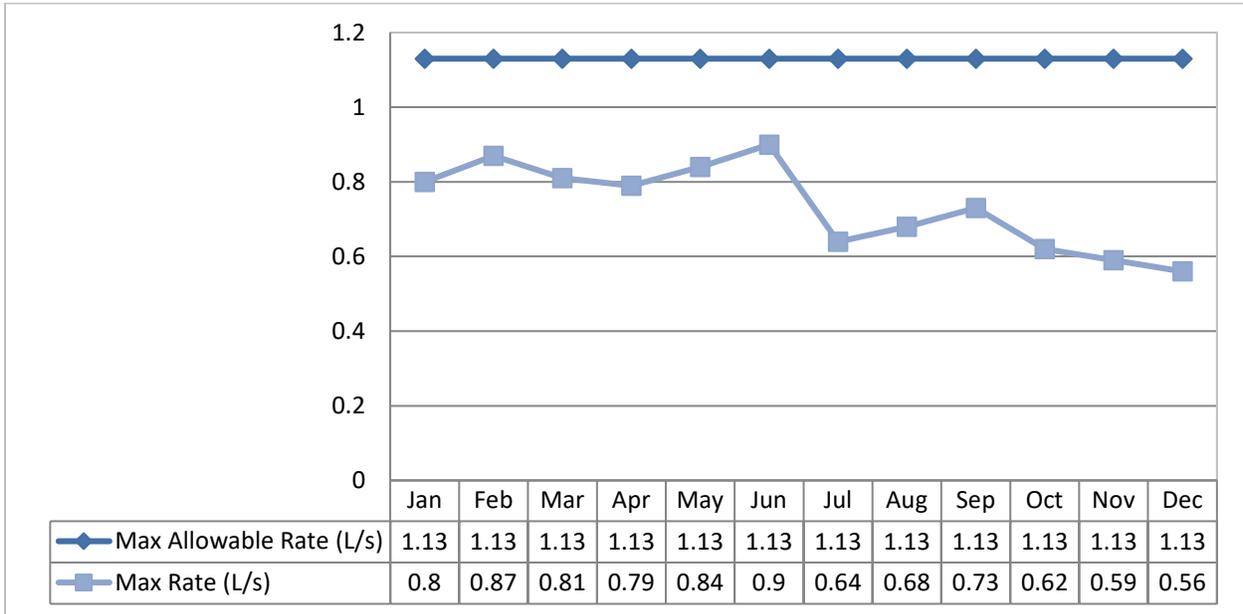
Total Monthly Flows (m³/d)

Max Allowable-MDWL- Well #1



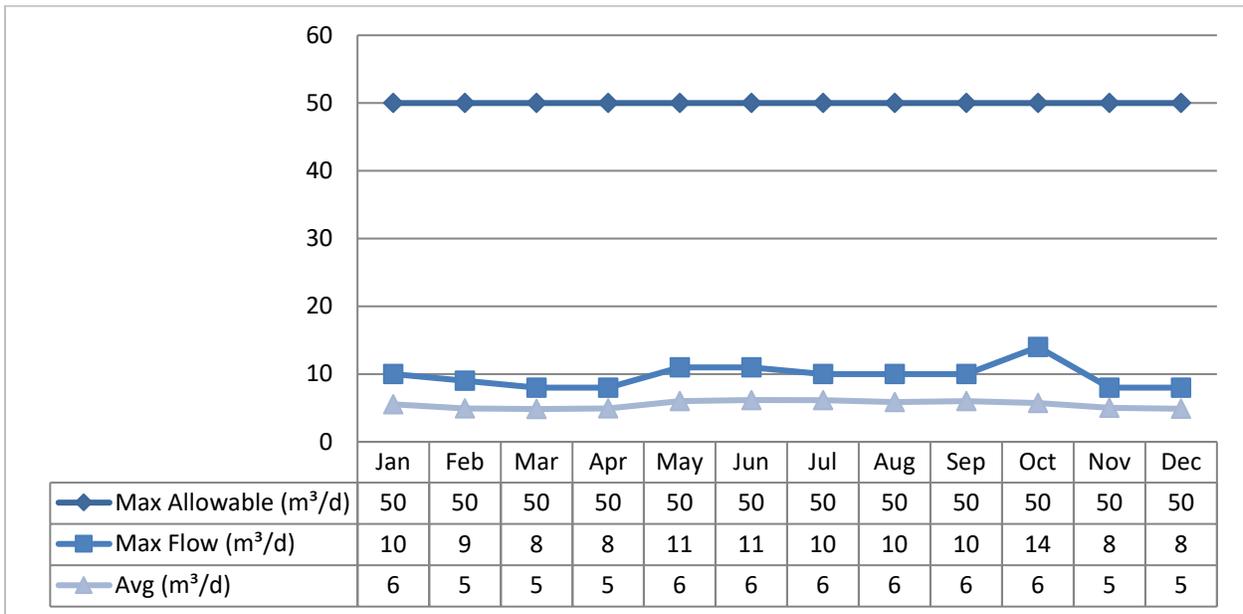
Monthly Rated Flows (L/s)

Max Allowable Rate-MDWL- Well #1



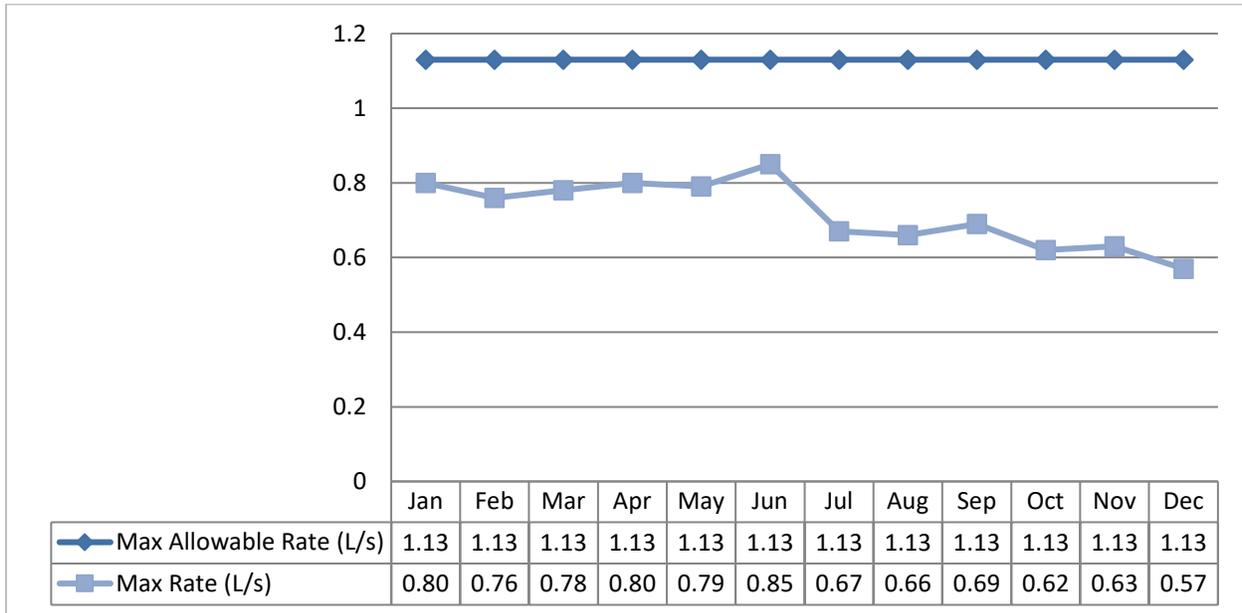
Total Monthly Flows (m³/d)

Max Allowable-MDWL- Well #2



Monthly Rated Flows (L/s)

Max Allowable Rate-MDWL- Well #2



Treated Water Flows

The Treated Water flows are regulated under the Municipal Licence. The average water consumption for the Park Lane Drinking Water System during 2025 was: 8.3 m³/day.

Park Lane Drinking Water System Historical Demands

Year	Number of Connections	Average Daily Demand (m ³)	Maximum Daily Demand (m ³ /day)	Rated Capacity	Per Capita Consumption*(L/p/day)	
					Average	Maximum
2014	17	11	26	50	239	588
2015	17	8	16	50	190	362
2016	17	8	33	50	193	747
2017	18	7.5	20	50	160	425
2018	19	8.3	16	50	168	324
2019	19	12.2	45	50	246	911
2020	19	11.5	42	50	233	850
2021	19	9.1	19	50	184	385
2022	19	8.2	23	50	167	466
2023	19	7.5	21	50	152	425
2024	19	7.9	15	50	160	304
2025	19	8.3	16	50	168	324

Year	Number of Connections	Average Daily Demand (m ³)	Maximum Daily Demand (m ³ /day)	Rated Capacity	Per Capita Consumption*(L/p/day)	
					Average	Maximum
3 Year Average/Max		7.9	17	50	160	351

*Based on 2.6 people per dwelling

Note: Historical data may have included leaks/breaks & system flushing. Previous numbers would need to be reviewed to confirm accuracy.

Note: This calculation was completed based on current connections in the system, growth within the drinking water system has not been considered.

System Reserve Capacity

In accordance with the MECP Procedure D-5-1, the reserve capacity is calculated by the following formula:

Reserve Capacity= Design Flow- Committed Flow

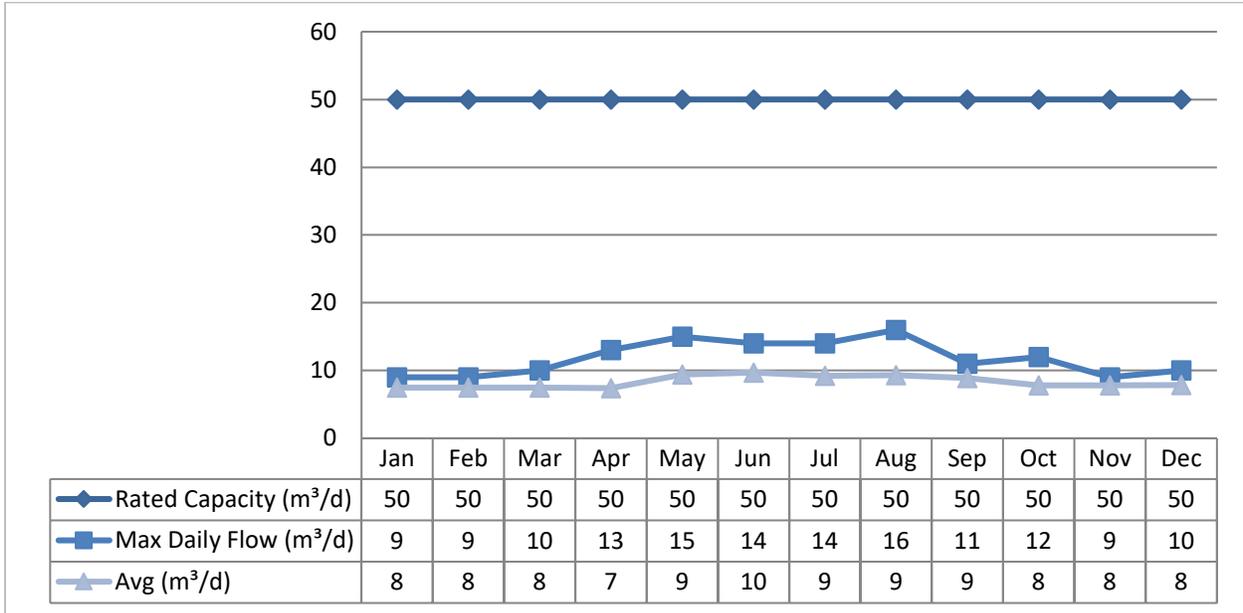
Design flow is the maximum permissible flow approved by the MDWL and/or PTTW. Park Lane Water Works maximum daily rated capacity is 50 m³/day.

The committed flow is the total expected water demand from the existing and proposed connections based on the previous three years of data. The committed number of service connections is: 19. The three-year (2023-2025) maximum per capita water consumption is: 351 L/p/day. At this water consumption rate, the committed flow is: 17 m³/day.

As a result, the calculated reserve capacity is: 33 m³/day.

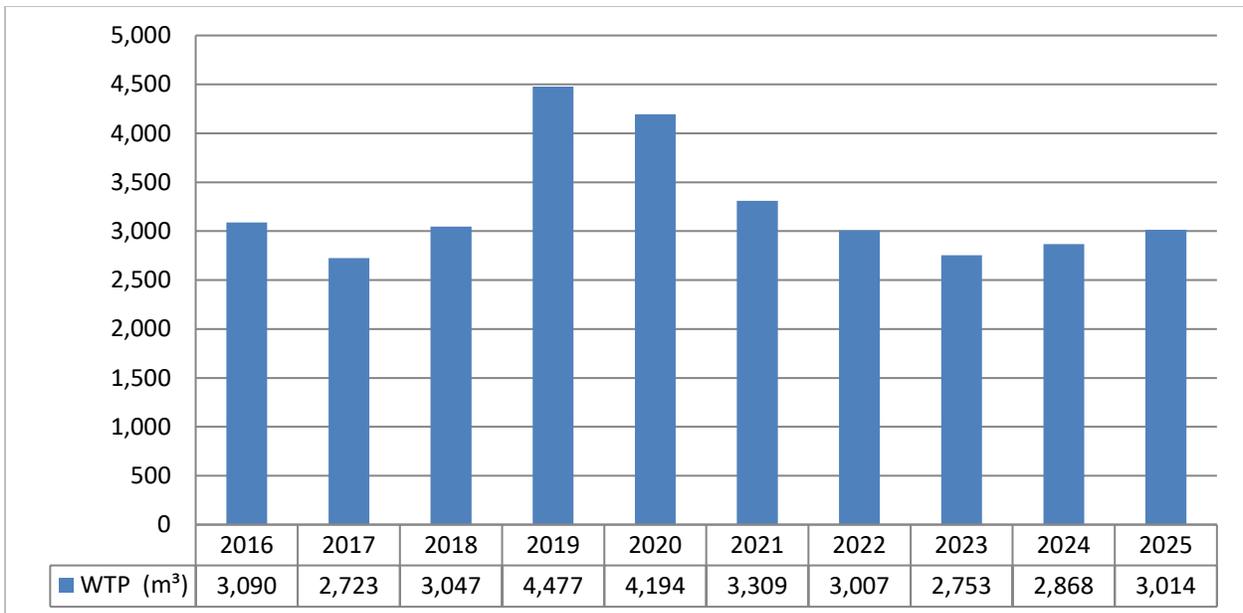
Monthly Rated Flows

Rated Capacity – MDWL



Annual Total Flow Comparison

Total Annual m³



5. Regulatory Sample Results Summary

Microbiological Testing

	Number of Samples Collected	Range of E. Coli Results		Range of Total Coliform Results		Range of HPC Results	
		Min	Max	Min	Max	Min	Max
Raw Well 1	12	0	0	0	0		
Raw Well 2	12	0	0	0	0		
Distribution	27	0	0	0	0	0	1

Operational Testing

	Number of Samples Collected	Range of Results	
		Minimum	Maximum
Turbidity Well 1 (NTU)	13	0.24	0.86
Turbidity Well 2 (NTU)	13	0.21	0.86
Turbidity – Treated Water (NTU)	8760	0.50	2.04
Treated Water Chlorine	8760	1.25	2.57
Distribution Water Chlorine	105	0.84	2.11
Fluoride (If the DWS provides fluoridation)	N/A	N/A	N/A

Note: Record the unit of measure if it is not milligrams per litre.

Note: For continuous monitors 8760 is used as the number of samples. Spikes recorded by on-line instrumentation were a result of air bubbles and various maintenance/calibration activities. All spikes are reviewed for compliance with O. Reg. 170/03.

Inorganic Parameters

These parameters are tested as a requirement under O. Reg. 170/03. Sodium and Fluoride are required to be tested every 5 years. Nitrate and Nitrite are tested quarterly and the metals are tested every 5 years as required under O. Reg. 170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

- MAC = Maximum Allowable Concentration as per O. Reg. 169/03
- MDL = Method Detection Limit

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MDL	Exceedances	
				MAC	1/2 MAC
Antimony: Sb (ug/L) - TW	2024/08/07	<MDL 0.6	6.0	No	No
Arsenic: As (ug/L) - TW	2024/08/07	<MDL 0.2	10.0	No	No
Barium: Ba (ug/L) - TW	2024/08/07	195.0	1000.0	No	No
Boron: B (ug/L) - TW	2024/08/07	81.0	5000.0	No	No
Cadmium: Cd (ug/L) - TW	2024/08/07	0.004	5.0	No	No
Chromium: Cr (ug/L) - TW	2024/08/07	0.29	50.0	No	No
Mercury: Hg (ug/L) - TW	2024/08/07	<MDL 0.01	1.0	No	No
Selenium: Se (ug/L) - TW	2024/08/07	<MDL 0.04	50.0	No	No
Uranium: U (ug/L) - TW	2024/08/07	0.42	20.0	No	No
Additional Inorganics					
Fluoride (mg/L) - TW	2022/08/03	0.26	1.5	No	No
Nitrite (mg/L) - TW	2025/02/03	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2025/05/05	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2025/08/05	<MDL 0.003	1.0	No	No
Nitrite (mg/L) - TW	2025/11/03	<MDL 0.003	1.0	No	No
Nitrate (mg/L) - TW	2025/02/03	0.016	10.0	No	No
Nitrate (mg/L) - TW	2025/05/05	0.019	10.0	No	No
Nitrate (mg/L) - TW	2025/08/05	0.01	10.0	No	No
Nitrate (mg/L) - TW	2025/11/03	<MDL 0.006	10.0	No	No
Sodium: Na (mg/L) - TW	2025/08/05	66.1	20*	N/A	N/A
Sodium: Na (mg/L) - TW	2025/08/11	74.2	20*	N/A	N/A

*There is no "MAC" for Sodium. The aesthetic objective 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.

Schedule 15 Sampling

The Schedule 15 Sampling is required under O. Reg. 170/03. This system is under reduced sampling. No plumbing samples were collected.

Distribution System	Number of Samples	Range of Results Minimum	Range of Results Maximum	MAC (ug/L)	Number of Exceedances
Alkalinity (mg/L)	2	195	224	N/A	N/A
pH	2	6.9	7.1	N/A	N/A
Lead (ug/l)	2	0.24	0.7	10	0

Note: Lead is required to be sampled every 3 years and is scheduled to be sampled in 2028.

Organic Parameters

These parameters are tested every 5 years as a requirement under O. Reg 170/03. In the event any of the parameters exceed half of the maximum allowable concentration the parameter is required to be sampled quarterly.

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Exceedances	
				MAC	1/2 MAC
Alachlor (ug/L) - TW	2024/08/07	<MDL 0.02	5.00	No	No
Atrazine + N-dealkylated metabolites (ug/L) - TW	2024/08/07	<MDL 0.01	5.00	No	No
Azinphos-methyl (ug/L) - TW	2024/08/07	<MDL 0.05	20.00	No	No
Benzene (ug/L) - TW	2024/08/07	<MDL 0.32	1.00	No	No
Benzo(a)pyrene (ug/L) - TW	2024/08/07	<MDL 0.004	0.01	No	No
Bromoxynil (ug/L) - TW	2024/08/07	<MDL 0.33	5.00	No	No
Carbaryl (ug/L) - TW	2024/08/07	<MDL 0.05	90.00	No	No
Carbofuran (ug/L) - TW	2024/08/07	<MDL 0.01	90.00	No	No
Carbon Tetrachloride (ug/L) - TW	2024/08/07	<MDL 0.17	2.00	No	No
Chlorpyrifos (ug/L) - TW	2024/08/07	<MDL 0.02	90.00	No	No
Diazinon (ug/L) - TW	2024/08/07	<MDL 0.02	20.00	No	No
Dicamba (ug/L) - TW	2024/08/07	<MDL 0.20	120.00	No	No
1,2-Dichlorobenzene (ug/L) - TW	2024/08/07	<MDL 0.41	200.00	No	No
1,4-Dichlorobenzene (ug/L) - TW	2024/08/07	<MDL 0.36	5.00	No	No
1,2-Dichloroethane (ug/L) - TW	2024/08/07	<MDL 0.35	5.00	No	No
1,1-Dichloroethylene (ug/L) - TW	2024/08/07	<MDL 0.33	14.00	No	No
Dichloromethane (Methylene Chloride) (ug/L) - TW	2024/08/07	<MDL 0.35	50.00	No	No
2,4-Dichlorophenol (ug/L) - TW	2024/08/07	<MDL 0.15	900.00	No	No
2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW	2024/08/07	<MDL 0.19	100.00	No	No
Diclofop-methyl (ug/L) - TW	2024/08/07	<MDL 0.4	9.00	No	No
Dimethoate (ug/L) - TW	2024/08/07	<MDL 0.06	20.00	No	No
Diquat (ug/L) - TW	2024/08/07	<MDL 1.0	70.00	No	No
Diuron (ug/L) - TW	2024/08/07	<MDL 0.03	150.00	No	No
Glyphosate (ug/L) - TW	2024/08/07	<MDL 1.0	280.00	No	No
Malathion (ug/L) - TW	2024/08/07	<MDL 0.02	190.00	No	No
2-Methyl-4chlorophenoxyacetic Acid (MCPA) (ug/L)	2024/08/07	<MDL 0.12	100	No	No
Metolachlor (ug/L) - TW	2024/08/07	<MDL 0.01	50.00	No	No
Metribuzin (ug/L) - TW	2024/08/07	<MDL 0.02	80.00	No	No
Monochlorobenzene (Chlorobenzene) (ug/L) - TW	2024/08/07	<MDL 0.3	80.00	No	No
Paraquat (ug/L) - TW	2024/08/07	<MDL 1.0	10.00	No	No

Treated Water	Sample Date (yyyy/mm/dd)	Sample Result	MAC	Exceedances	
				MAC	1/2 MAC
PCB (ug/L) - TW	2024/08/07	<MDL 0.04	3.00	No	No
Pentachlorophenol (ug/L) - TW	2024/08/07	<MDL 0.15	60.00	No	No
Phorate (ug/L) - TW	2024/08/07	<MDL 0.01	2.00	No	No
Picloram (ug/L) - TW	2024/08/07	<MDL 1.0	190.00	No	No
Prometryne (ug/L) - TW	2024/08/07	<MDL 0.03	1.00	No	No
Simazine (ug/L) - TW	2024/08/07	<MDL 0.01	10.00	No	No
Terbufos (ug/L) - TW	2024/08/07	<MDL 0.01	1.00	No	No
Tetrachloroethylene (ug/L) - TW	2024/08/07	<MDL 0.35	10.00	No	No
2,3,4,6-Tetrachlorophenol (ug/L) - TW	2024/08/07	<MDL 0.2	100.00	No	No
Triallate (ug/L) - TW	2024/08/07	<MDL 0.01	230.00	No	No
Trichloroethylene (ug/L) - TW	2024/08/07	<MDL 0.44	5.00	No	No
2,4,6-Trichlorophenol (ug/L) - TW	2024/08/07	<MDL 0.25	5.00	No	No
Trifluralin (ug/L) - TW	2024/08/07	<MDL 0.02	45.00	No	No
Vinyl Chloride (ug/L) - TW	2024/08/07	<MDL 0.17	1.00	No	No
Distribution Water					
Trihalomethane: Total (ug/L) Annual Average - DW	2025	71.3	100	No	Yes
HAA Total (ug/L) Annual Average - DW	2025	56.2	80	No	Yes

MAC = Maximum Allowable Concentration as per O. Reg. 169/03

MDL = Method Detection Limit

Additional Legislated Samples

Date of legal instrument issued	Parameter	Date Sampled	Result	Unit of Measure
No additional legislated samples required.				

Inorganic or Organic Parameter Exceedances

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

Parameter	Result Value	Unit of Measure	Date of Sample
Trihalomethane: Total (ug/L) - DW	71.3	(ug/L)	2025 Running Annual Average
Haloacetic Acids Total (ug/L) - DW	56.2	(ug/L)	2025 Running Annual Average

6. Major Maintenance Summary incurred to install, repair or replace required equipment

Item #	Description
1	Replacement of Paperless Chart Recorder