

# Woodville Drinking Water System

## 2025 Annual Water Report

Drinking Water System Number: 210001077

Drinking Water System Operating Authorities: City of Kawartha Lakes and Ontario  
Clean Water Agency

Drinking Water System Category: Large Municipal Residential

Reporting Period: January 1<sup>st</sup> – December 31<sup>st</sup>, 2025



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# 2025 Annual Drinking Water System Summary Report

## General Information

The City of Kawartha Lakes prepares a report summarizing system operation and water quality for every municipal drinking water system annually. This report has been prepared to satisfy the annual reporting requirements in O. Reg. 170/03 Section 11 and Schedule 22. The annual reports will be available to residents at the City of Kawartha Lakes Public Works Administration Office by appointment and the [City's website](#). Notification that the reports are available free of charge will be made on the City of Kawartha Lakes website. The City of Kawartha Lakes Public Works Administration Office is located at 322 Kent Street West in Lindsay, Ontario.

This system does not serve more than 10,000 residences.

**Drinking Water System Number:** 210001077

**Drinking Water System Name:** Woodville Drinking Water System

**Drinking Water System Owner:** City of Kawartha Lakes

**Drinking Water System Category:** Large Municipal Residential

**Reporting Period:** January 1, 2025 – December 31, 2025

## Compliance Summary

**Table 1. Drinking Water Compliance Summary**

	Number of Events	Date (yyyy/mm/dd)	Details
<b>Ministry (MECP) Inspections</b>	1	2025 10 16	Unannounced Focused Drinking Water Inspection, Inspection Rating 100%
<b>Adverse Water Quality Incidents (AWQIs)</b>	0		
<b>Non-Compliances</b>	0		
<b>Boil Water Advisories</b>	0		
<b>Health and Safety</b>	0		

## Drinking Water System Description

The Woodville drinking water system is a large municipal residential drinking water system serving the Village of Woodville, Ontario, within the City of Kawartha Lakes. The drinking water system is classified as a Class I Water Treatment and Class I Water Distribution subsystems in accordance with O. Reg. 128/04

### Source Water

The water supply for the system is obtained from two groundwater wells, Well #1 and Well #2, with an additional pond makeup well, Well #3. These wells are designated as GUDI, meaning they are groundwater under the direct influence of surface water.

### Water Treatment Facility

The Woodville water treatment facility consists of two parallel treatment trains. Each train includes two cartridge filter assemblies and a sodium hypochlorite disinfection system. Online turbidimeters continuously monitor the filter effluent for turbidity. Chlorine contact time is achieved via a 90 m long, 600 mm diameter watermain extending from the pumphouse along County Road 46 to a building housing a chlorine analyzer to ensure proper disinfection.

A diesel generator is located onsite to provide standby power to the water treatment facility in the event of a power failure.

### Distribution System

The distribution system consists of approximately 8.7 kilometres of PVC watermain and is not rated for fire protection. Water storage is provided in a standpipe with an approximate capacity of 1160 m<sup>3</sup>, which also maintains pressure equalization within the system. There are no chlorine boosting stations or secondary disinfection capabilities within the control of the distribution system.

**Table 2. Treatment Chemicals Used**

Chemical Name	Use	Supplier
Sodium Hypochlorite	Disinfection	Jutzi Water Technologies

## Summary of Non-Compliance

### Adverse Water Quality Incidents

There were no adverse water quality incidents reported during the reporting period.

## Non-Compliance

There were no non-compliances reported during the reporting period.

## Non-Compliance Identified in a Ministry Inspection

There were no non-compliances identified in a Ministry Inspection during this period.

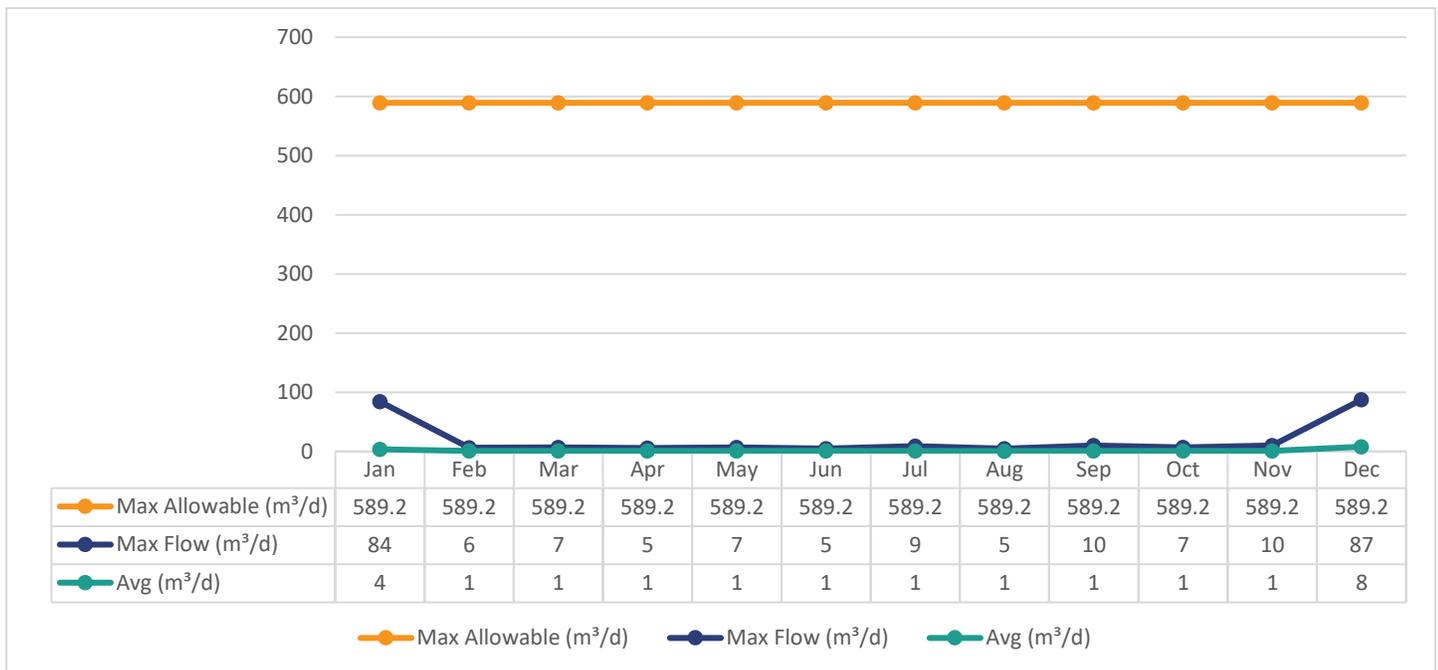
## Flows

The Woodville Drinking Water System is operating on average under half the rated capacity. The rated capacity of the system (treated water flows) is 588 m<sup>3</sup>/day.

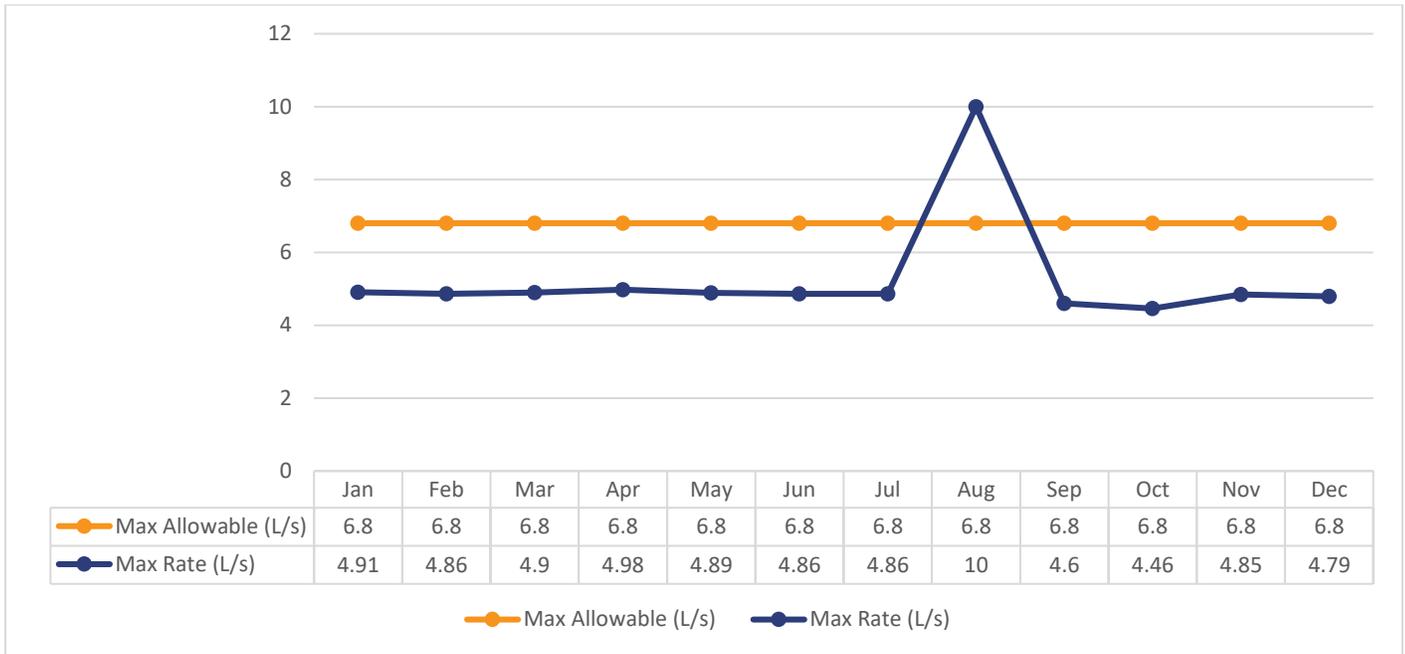
### Raw Water Flows

The raw water flows are regulated under the Permit to Take Water. Raw flow data for 2025 was submitted to the Ministry of Environment, Conservation and Parks (MECP) electronically under permit #1207-AHKRXV. The confirmation of the data that was submitted is attached in Appendix A.

**Graph 1. Total Monthly Flows (m<sup>3</sup>/d) – Well #1 (Max Allowable PTTW)**

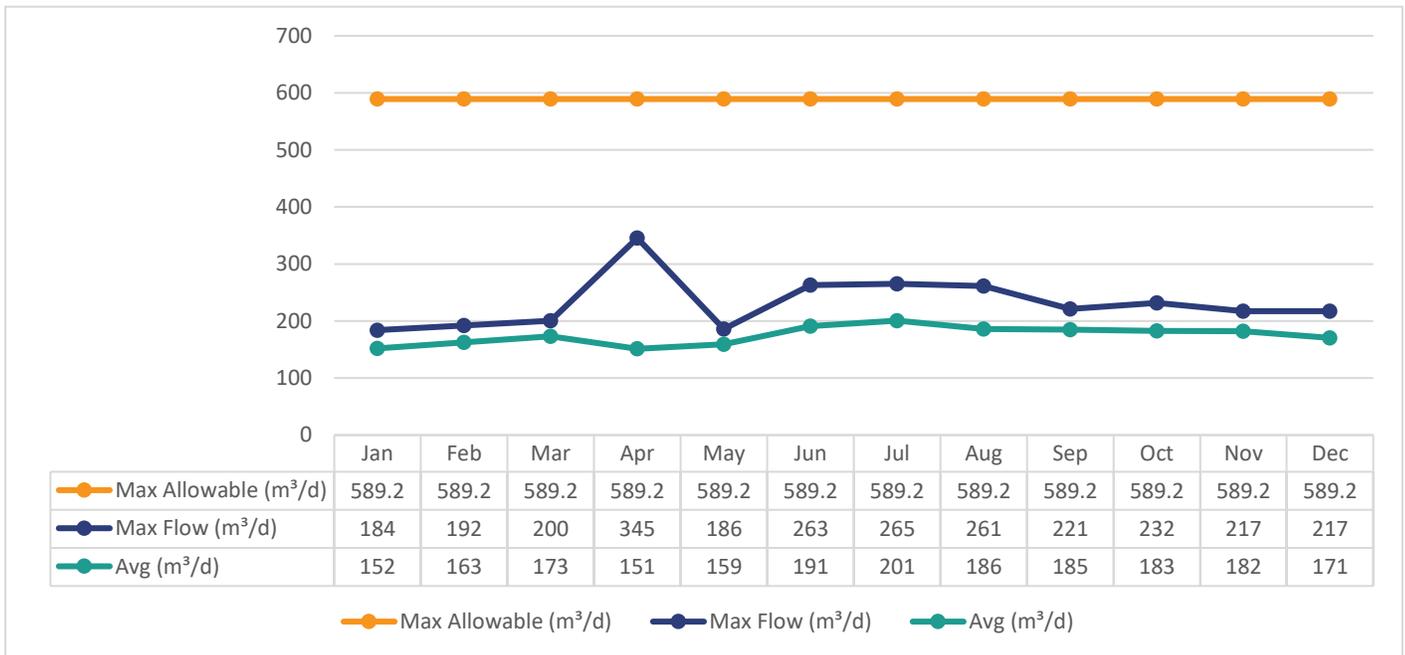


**Graph 2. Monthly Rated Flows (L/s) – Well #1 (Max Allowable Rate PTTW)**

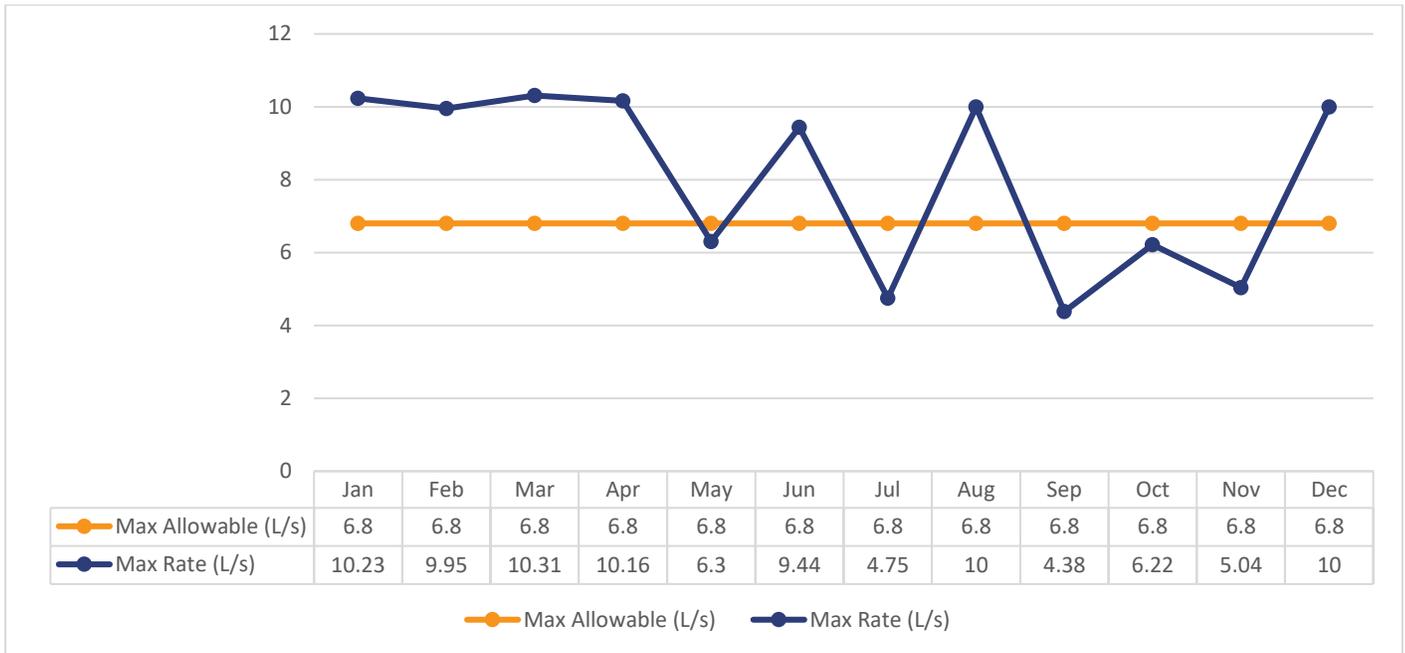


**Note:** Certain operational circumstances could cause results to be temporarily outside of the allowable rates. In August 2025, the allowable rate was momentarily surpassed due to annual calibration of the flow meter and did not indicate a true exceedance. All spikes are reviewed for compliance with O. Reg. 170/03.

**Graph 3. Total Monthly Flows (m<sup>3</sup>/d) – Well #2 (Max Allowable PTTW)**

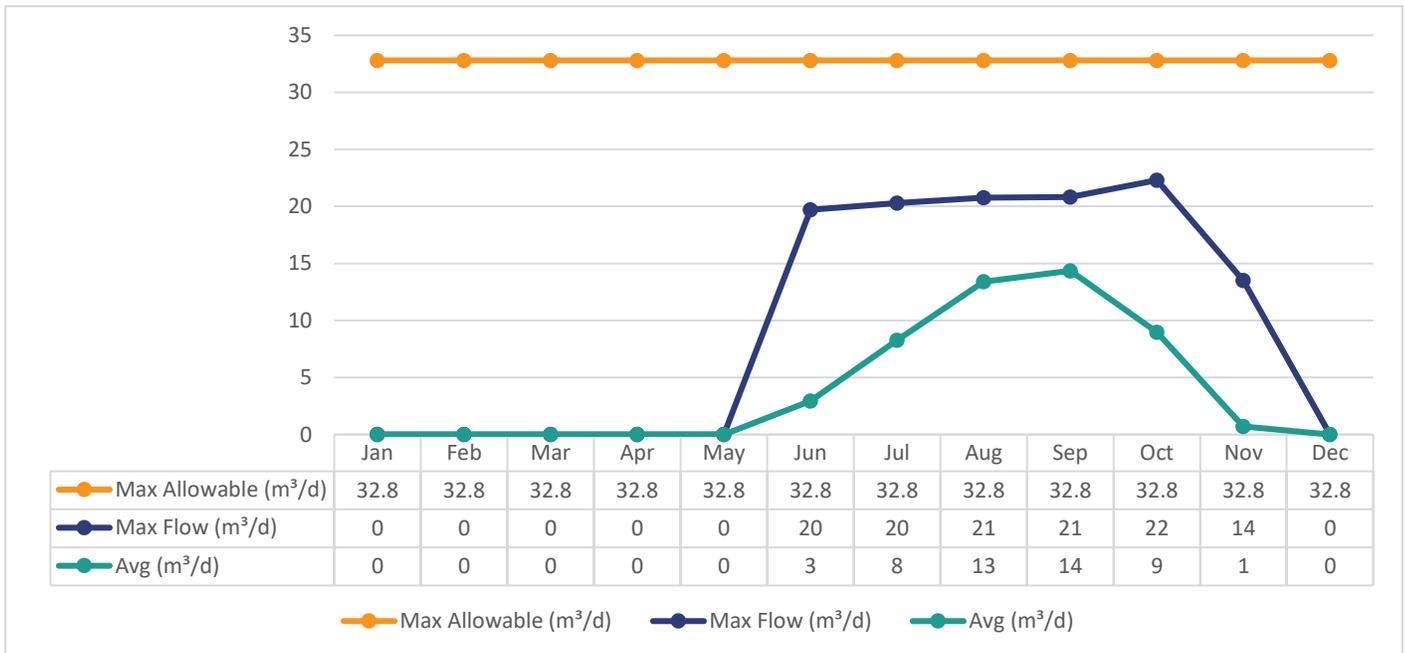


**Graph 4. Monthly Rated Flows (L/s) – Well #2 (Max Allowable Rate PTTW)**

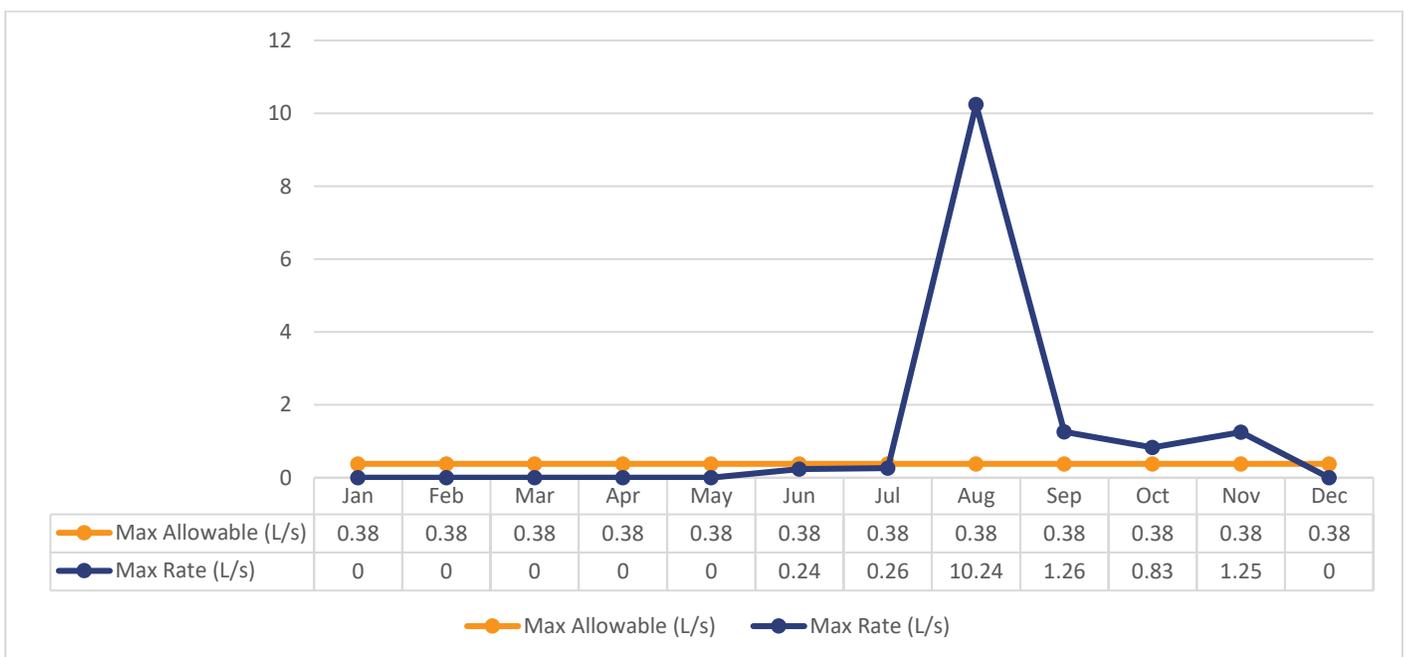


**Note:** Certain operational circumstances could cause results to be temporarily outside of the allowable rates. In August 2025, the allowable rate was momentarily surpassed due to annual calibration of the flow meter and did not indicate a true exceedance. In the other months where the allowable rate was momentarily surpassed, it was due to generator transfers and did not indicate true exceedances. All spikes are reviewed for compliance with O. Reg. 170/03.

**Graph 5. Total Monthly Flows (m<sup>3</sup>/d) – Well #3 Pond Makeup Well (Max Allowable PTTW)**



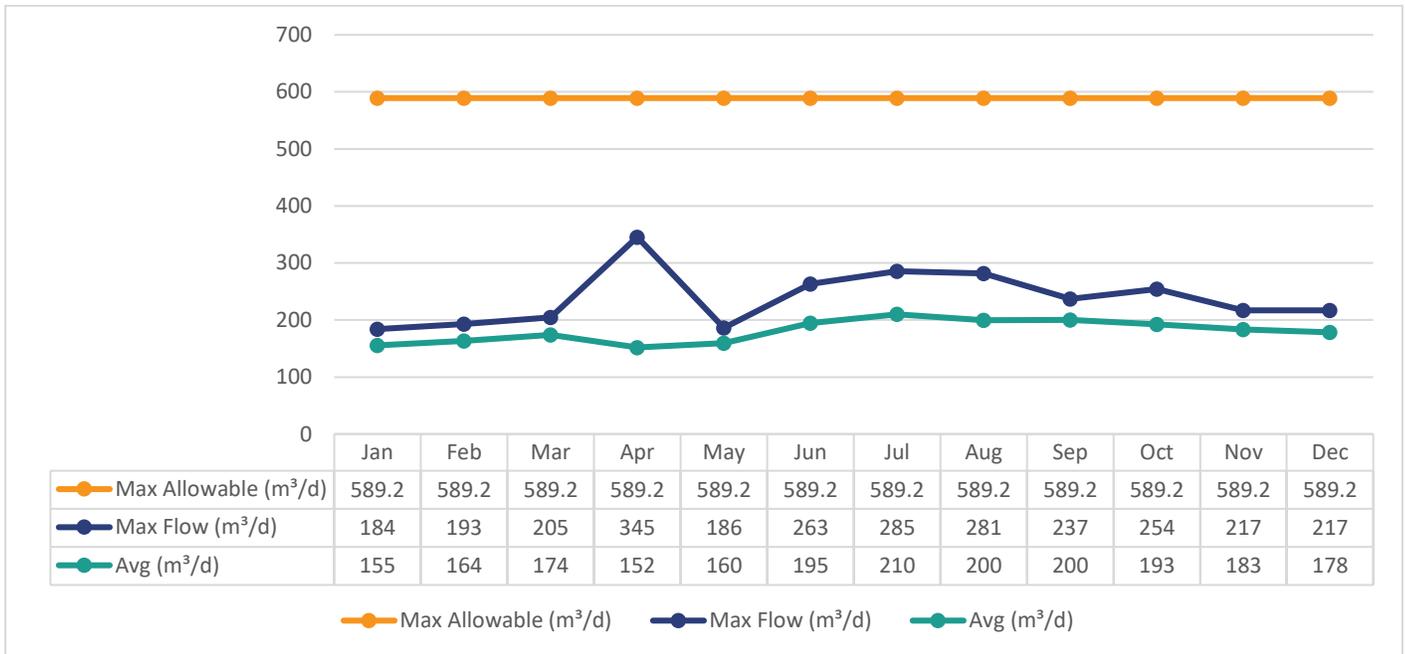
**Graph 6. Monthly Rated Flows (L/s) – Well #3 Pond Makeup Well (Max Allowable Rate PTTW)**



**Note:** Certain operational circumstances could cause results to be temporarily outside of the allowable rates. In August 2025, the allowable rate was momentarily surpassed due to annual calibration of the flow meter and did not indicate a true exceedance. In the other months, the

allowable rate was momentarily surpassed due to generator transfers and did not indicate true exceedances. All spikes are reviewed for compliance with O. Reg. 170/03.

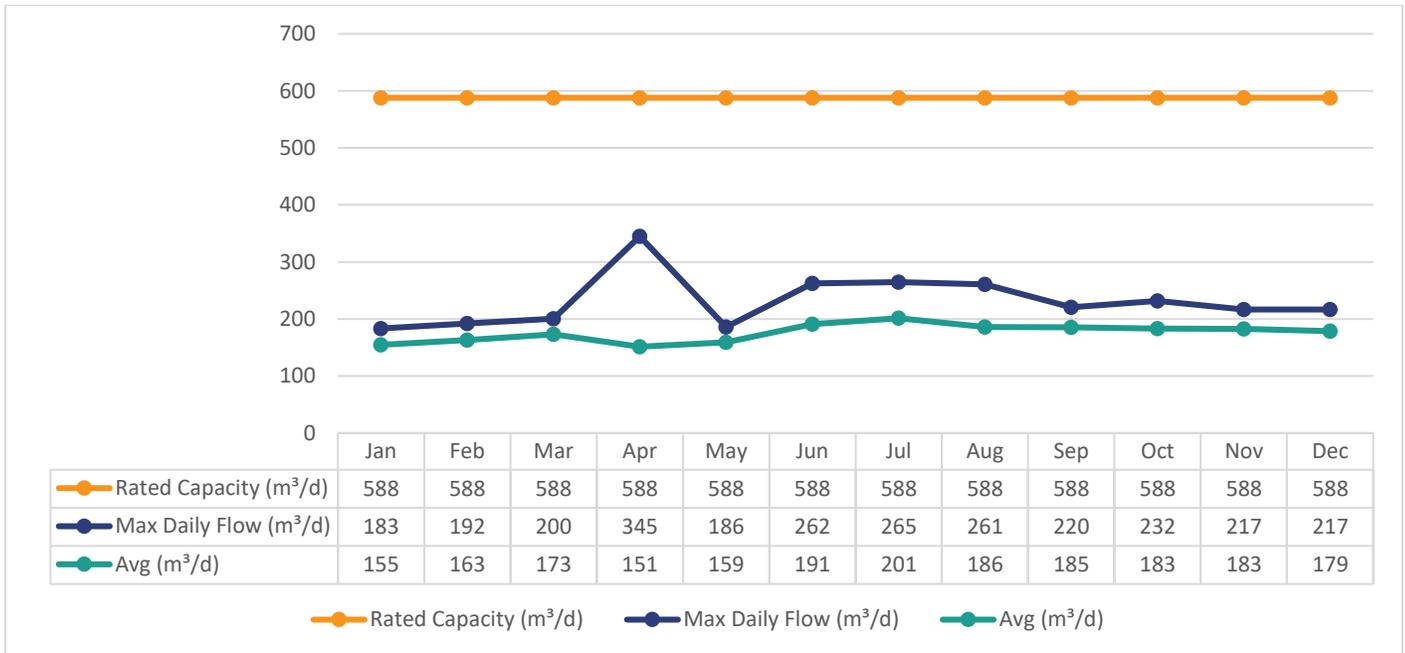
**Graph 7. Total Monthly Raw Flows (m<sup>3</sup>/day) –Max Allowable Rate PTTW**



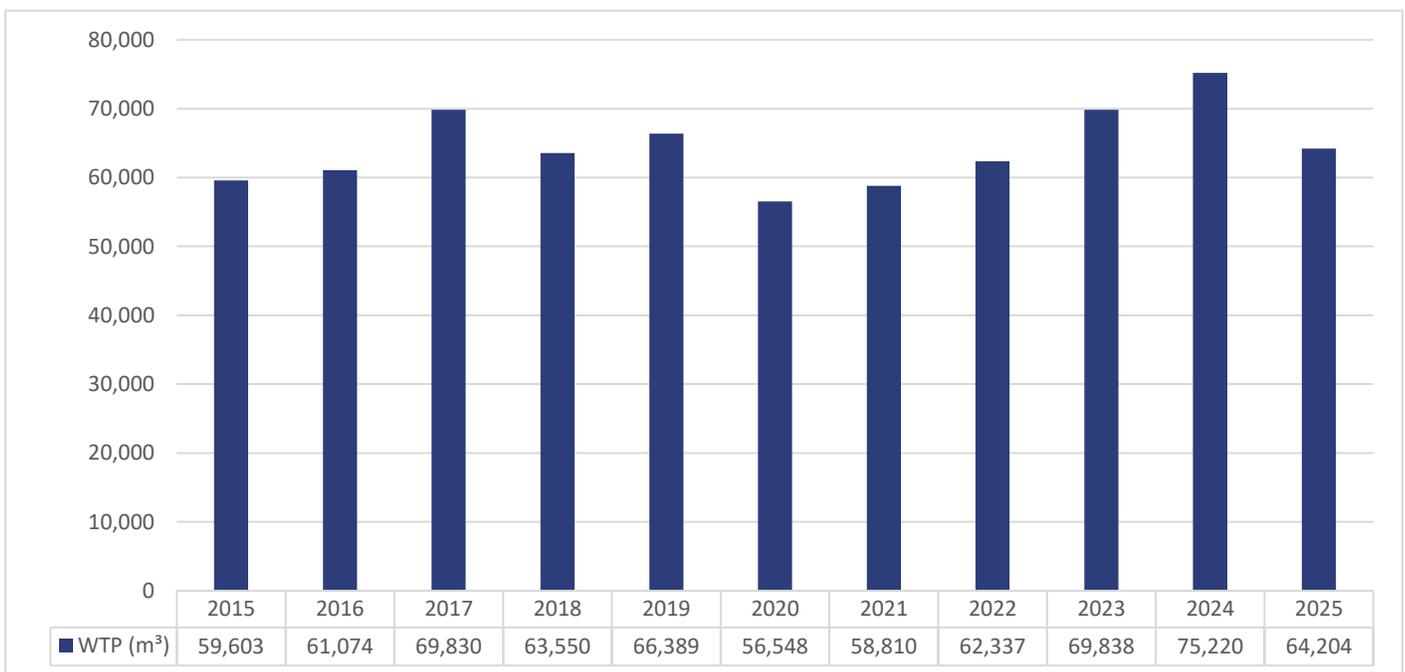
## Treated Water Flows

The Treated Water flows are regulated under the Municipal Drinking Water Licence 141-115.

### Graph 8. Monthly Rated Flows (m<sup>3</sup>/d) – Rated Capacity - MDWL



### Graph 9. Annual Total Flow Comparison (m<sup>3</sup>)



# Regulatory Sample Results Summary

## Microbiological Testing

**Table 4. Microbiological Test Results**

	Number of Samples Collected	Range of E. Coli Results	Range of E. Coli Results	Range of Total Coliform Results	Range of Total Coliform Results	Range of HPC Results	Range of HPC Results
		Min	Max	Min	Max	Min	Max
<b>Raw Well 1</b>	52	0	0	0	1	N/A	N/A
<b>Raw Well 2</b>	52	0	0	0	2	N/A	N/A
<b>Treated</b>	52	0	0	0	0	0	1
<b>Distribution</b>	156	0	0	0	0	0	2

OG = Overgrowth

HPC = Heterotrophic Plate Count

## Operational Testing

**Table 5. Operational Test Results**

Parameter	Number of Samples Collected	Range of Results Minimum	Range of Results Maximum
<b>Turbidity Well 1 (NTU)</b>	12	0.17	0.84
<b>Turbidity Well 2 (NTU)</b>	12	0.13	0.31
<b>Turbidity – Filter 1/2 (NTU)</b>	8760	0	2.00
<b>Turbidity – Filter 3/4 (NTU)</b>	8760	0	2.00
<b>Chlorine</b>	8760	0.06	3.46
<b>Fluoride</b> (If the DWS provides fluoridation)	N/A	N/A	N/A

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

**Note:** For continuous monitors 8760 is used as the number of samples. Spikes recorded by online 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 five years. Nitrate and Nitrite are tested quarterly and the metals are

tested annually as required under O. Reg. 170/03. In the event any of the parameters listed in Schedule 23 or 24 of O. Reg. 170/03 exceed half of the maximum allowable concentration the parameter is required to be samples quarterly. Based on the latest test results no additional testing is required.

**Table 6. Inorganic Parameters Test Results**

	Sample Date (yyyy/mm/dd)	Sample Result	Unit of Measure	MAC	Exceedance
<b>Treated Water</b>					
Antimony	2025 01 07	<MDL 0.6	µg/L	6.0	No
Arsenic	2025 01 07	<MDL 0.2	µg/L	10.0	No
Barium	2025 01 07	40.1	µg/L	1000.0	No
Boron	2025 01 07	12.0	µg/L	5000.0	No
Cadmium	2025 01 07	0.008	µg/L	5.0	No
Chromium	2025 01 07	0.17	µg/L	50.0	No
Mercury	2025 01 07	<MDL 0.01	µg/L	1.0	No
Selenium	2025 01 07	0.19	µg/L	50.0	No
Uranium	2025 01 07	0.623	µg/L	20.0	No
<b>Additional Organics</b>					
Fluoride	2023 01 04	<MDL 0.06	mg/L	1.5	No
Nitrate	2025 01 06	1.77	mg/L	10.0	No
Nitrate	2025 04 07	1.79	mg/L	10.0	No
Nitrate	2025 07 07	1.18	mg/L	10.0	No
Nitrate	2025 10 06	1.35	mg/L	10.0	No
Nitrite	2025 01 06	<MDL 0.003	mg/L	1.0	No
Nitrite	2025 04 07	<MDL 0.003	mg/L	1.0	No
Nitrite	2025 07 07	<MDL 0.003	mg/L	1.0	No
Nitrite	2025 10 06	<MDL 0.003	mg/L	1.0	No
Sodium	2023 01 04	11.0	mg/L	20*	No

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

MDL = Method Detection Limit

\*There is no "MAC" for Sodium. The aesthetic objective for sodium in drinking water is 200 mg/L. Sodium results exceeding 20 mg/L are to be reported to the Medical Officer of Health as per Schedule 16-3 (8) of O. Reg. 170/03.

### Schedule 15 Sampling (Lead)

The Schedule 15 sampling is required under O. Reg. 170/03. This system is under reduced sampling. Only distribution samples were collected, and no plumbing samples were collected.

**Table 7. Schedule 15 Test Results (Lead)**

	Number of Sampling Points	Number of Samples	Range of Results Minimum	Range of Results Maximum	MAC (µg/L)	Number of Exceedances
Alkalinity (mg/L)	2	4	270	273	N/A	N/A
pH	2	4	7.17	7.35	N/A	N/A
Lead (µg/L)	N/A	N/A	N/A	N/A	10	N/A

**Organic Parameters**

These parameters are tested as a requirement under O. Reg. 170/03. In the event any of the parameters listed in Schedule 23 or 24 of O. Reg. 170/03 exceed half of the maximum allowable concentration the parameter is required to be samples quarterly. Based on the latest test results no additional testing is required.

**Table 8. Organic Parameters Test Results**

	Sample Date (yyyy/mm/dd)	Sample Result	Unit of Measure	MAC	Exceedance
<b>Treated Water</b>					
Alachlor	2025 01 07	<MDL 0.02	µg/L	5.0	No
Atrazine + N-dealkylated metabolites	2025 01 07	<MDL 0.01	µg/L	5.0	No
Azinphos-methyl	2025 01 07	<MDL 0.05	µg/L	20.0	No
Benzene	2025 01 07	<MDL 0.32	µg/L	1.0	No
Benzo(a)pyrene	2025 01 07	<MDL 0.004	µg/L	0.01	No
Bromoxynil	2025 01 07	<MDL 0.33	µg/L	5.0	No
Carbaryl	2025 01 07	<MDL 0.05	µg/L	90.0	No
Carbofuran	2025 01 07	<MDL 0.01	µg/L	90.0	No
Carbon Tetrachloride	2025 01 07	<MDL 0.17	µg/L	2.0	No
Chlorpyrifos	2025 01 07	<MDL 0.02	µg/L	90.0	No
Diazinon	2025 01 07	<MDL 0.02	µg/L	20.0	No
Dicamba	2025 01 07	<MDL 0.2	µg/L	120.0	No
1,2-Dichlorobenzene	2025 01 07	<MDL 0.41	µg/L	200.0	No
1,4-Dichlorobenzene	2025 01 07	<MDL 0.36	µg/L	5.0	No
1,2-Dichloroethane	2025 01 07	<MDL 0.35	µg/L	5.0	No
1,1-Dichloroethylene	2025 01 07	<MDL 0.33	µg/L	14.0	No

	Sample Date (yyyy/mm/dd)	Sample Result	Unit of Measure	MAC	Exceedance
Dichloromethane (Methylene Chloride)	2025 01 07	<MDL 0.35	µg/L	50.0	No
2,4-Dichlorophenol	2025 01 07	<MDL 0.15	µg/L	900.0	No
2,4-Dichlorophenoxy acetic acid (2,4-D)	2025 01 07	<MDL 0.19	µg/L	100.0	No
Diclofop-methyl	2025 01 07	<MDL 0.4	µg/L	9.0	No
Dimethoate	2025 01 07	<MDL 0.06	µg/L	20.0	No
Diquat	2025 01 07	<MDL 1.0	µg/L	70.0	No
Diuron	2025 01 07	<MDL 0.03	µg/L	150.0	No
Glyphosate	2025 01 07	<MDL 1.0	µg/L	280.0	No
Malathion	2025 01 07	<MDL 0.02	µg/L	190.0	No
2-Methyl- 4chlorophenoxyacetic Acid (MCPA)	2025 01 07	<MDL 0.12	µg/L	100.0	No
Metolachlor	2025 01 07	<MDL 0.01	µg/L	50.0	No
Metribuzin	2025 01 07	<MDL 0.02	µg/L	80.0	No
Monochlorobenzene (Chlorobenzene)	2025 01 07	<MDL 0.3	µg/L	80.0	No
Paraquat	2025 01 07	<MDL 1.0	µg/L	10.0	No
PCB	2025 01 07	<MDL 0.04	µg/L	3.0	No
Pentachlorophenol	2025 01 07	<MDL 0.15	µg/L	60.0	No
Phorate	2025 01 07	<MDL 0.01	µg/L	2.0	No
Picloram	2025 01 07	<MDL 1.0	µg/L	190.0	No
Prometryne	2025 01 07	<MDL 0.03	µg/L	1.0	No
Simazine	2025 01 07	<MDL 0.01	µg/L	10.0	No
Terbufos	2025 01 07	<MDL 0.01	µg/L	1.0	No
Tetrachloroethylene	2025 01 07	<MDL 0.35	µg/L	10.0	No
2,3,4,6- Tetrachlorophenol	2025 01 07	<MDL 0.2	µg/L	100.0	No
Triallate	2025 01 07	<MDL 0.01	µg/L	230.0	No
Trichloroethylene	2025 01 07	<MDL 0.44	µg/L	5.0	No
2,4,6-Trichlorophenol	2025 01 07	<MDL 0.25	µg/L	5.0	No
Trifluralin	2025 01 07	<MDL 0.02	µg/L	45.0	No
Vinyl Chloride	2025 01 07	<MDL 0.17	µg/L	1.0	No
<b>Distribution Water</b>					
Haloacetic Acids Running Annual Average Q1	2025 01 06	7.70	µg/L	80.0	No
Haloacetic Acids Running Annual Average Q2	2025 04 07	8.08	µg/L	80.0	No
Haloacetic Acids Running Annual Average Q3	2025 07 07	10.63	µg/L	80.0	No

	Sample Date (yyyy/mm/dd)	Sample Result	Unit of Measure	MAC	Exceedance
Haloacetic Acids Running Annual Average Q4	2025 10 06	12.73	µg/L	80.0	No
Trihalomethane Running Annual Average Q1	2025 01 06	24.00	µg/L	100.0	No
Trihalomethane Running Annual Average Q2	2025 04 07	23.25	µg/L	100.0	No
Trihalomethane Running Annual Average Q3	2025 07 07	23.00	µg/L	100.0	No
Trihalomethane Running Annual Average Q4	2025 10 06	22.75	µg/L	100.0	No

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

MDL = Method Detection Limit

### Additional Legislated Samples

Summary of additional testing and sampling carried out in accordance with the requirement of an approval, order or other legal instrument.

Additional samples are required under Permit to Take Water #1207-AHKRXV.

**Table 9. Additional Permit to Take Water Sampling Test Results**

Parameter	Location	No. of Samples Collected	Range of Results Minimum	Range of Results Maximum
Alkalinity (mg/L as CaCO <sub>3</sub> )	Well 1	2	260.0	262.0
Alkalinity (mg/L as CaCO <sub>3</sub> )	Well 2	2	262.0	262.0
Ammonia + Ammonium (N) (mg/L)	Well 1	14	<MDL 0.04	0.05
Ammonia + Ammonium (N) (mg/L)	Well 2	14	<MDL 0.04	0.10
Calcium (mg/L)	Well 1	2	95.5	97.8
Calcium (mg/L)	Well 2	2	92.1	95.9
Chloride (mg/L)	Well 1	2	5.90	19.0
Chloride (mg/L)	Well 2	2	7.50	12.0
Conductivity (uS/cm)	Well 1	2	521.0	561.0

Parameter	Location	No. of Samples Collected	Range of Results Minimum	Range of Results Maximum
Conductivity (uS/cm)	Well 2	2	523.0	567.0
Hydrogen Sulphide (mg/L)	Well 1	2	<MDL 0.006	<MDL 0.006
Hydrogen Sulphide (mg/L)	Well 2	2	<MDL 0.006	<MDL 0.006
Ion Ratio	Well 1	2	0.230	0.430
Ion Ratio	Well 2	2	0.310	1.940
Magnesium (mg/L)	Well 1	2	10.3	10.3
Magnesium (mg/L)	Well 2	2	10.8	10.9
Nitrate (mg/L)	Well 1	14	1.19	1.89
Nitrate (mg/L)	Well 2	14	1.20	1.84
Nitrite (mg/L)	Well 1	14	<MDL 0.003	<MDL 0.003
Nitrite (mg/L)	Well 2	14	<MDL 0.003	<MDL 0.003
Nitrites + Nitrates (mg/L)	Well 1	14	1.19	1.89
Nitrites + Nitrates (mg/L)	Well 2	14	1.20	1.84
pH	Well 1	2	6.88	7.35
pH	Well 2	2	6.99	7.33
Potassium (mg/L)	Well 1	2	1.56	1.72
Potassium (mg/L)	Well 2	2	1.63	1.85
Sodium (mg/L)	Well 1	2	4.75	5.98
Sodium (mg/L)	Well 2	2	6.34	7.73
Sulphate (mg/L)	Well 1	2	14.0	22.0
Sulphate (mg/L)	Well 2	2	16.0	25.0
Total Dissolved Solids (mg/L)	Well 1	2	300.0	317.0
Total Dissolved Solids (mg/L)	Well 2	2	309.0	314.0
Total Kjeldahl Nitrogen (mg/L)	Well 1	14	<MDL 0.05	0.22
Total Kjeldahl Nitrogen (mg/L)	Well 2	14	<MDL 0.05	0.28

## Minor Maintenance

- Standpipe sump pump receptacle, replace
- Filter valves faulting on start up, investigate
- Grey-well sump pump failure, investigate/repair
- ESA Corrective Action: Install proper two-pole breaker coupler
- New ductless heat/AC split install, get quotes/install
- Standpipe pit broken plug box and faulty plug, repair
- Valve fault fuse replace
- Standpipe pressure transmitter repair
- Tower communication troubleshoot
- Plant sink tap repair
- 24V Power supply fuse blown, investigate/replace
- Generator control wires fallen off, repair

## Major Maintenance Expense (above \$10,000)

Under Section 11 of O. Reg. 170/03, a description of any major expenses incurred during this reporting period to install, repair or replace required equipment must be included in the annual report. The details of the major expenses for this drinking water system are as follows:

Nothing to report for the reporting period.

# APPENDIX A

## WTR Submission Confirmation



Ministry of the Environment,  
Conservation and Parks

| [WT DATA](#) | [REPORTS](#) | [SEARCH WT DATA](#) | [ADMINISTRATION](#) | [USER PROFILE](#) | [CONTACT US](#) | [HELP](#) | [HOME](#) | [LOGOUT](#) |

Location: [WTRS](#) / [WT DATA](#) / [Input WT Record](#)

WTRS-WT-008

**Water Taking Data submitted successfully.**

**Confirmation:**

Thank you for submitting your water taking data online.

Permit Number: 1207-AHKRXV  
Permit Holder: THE CORPORATION OF THE CITY OF KAWARTHA LAKES.  
Received on: Jan 26, 2026 1:24 PM

This confirmation indicates that your data has been received by the Ministry, but should not be construed as acceptance of this data if it differs from that specified on the Permit Number, assigned to the Permit Holder stated above.