

Woodfield Drinking Water System 2025 Annual Water Report

Drinking Water System Number: 220012251

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

Drinking Water System Category: Small Municipal Residential

Reporting Period: January 1st – December 31st, 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:** 220012251
- Drinking Water System Name:** Woodfield Drinking Water System
- Drinking Water System Owner:** City of Kawartha Lakes
- Drinking Water System Category:** Small 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 |
|--|------------------|-------------------|--|
| Ministry (MECP) Inspections | 1 | 2025 06 19 | Announced Detailed Drinking Water Inspection – Final Inspection Rate of 96.41% |
| Adverse Water Quality Incidents (AWQIs) | 1 | 2025 03 31 | Loss of pressure due to generator failure |
| Non-Compliances | 1 | 2024 11 25-27 | Issue with continuous monitoring equipment not in compliance with O. reg. 170/03 |
| Boil Water Advisories | 1 | 2025 03 31 | Loss of pressure due to generator failure |

| | Number of Events | Date (yyyy/mm/dd) | Details |
|--------------------------|------------------|-------------------|---------|
| Health and Safety | 0 | | |

Drinking Water System Description

The Woodfield drinking water system is a small municipal residential drinking water system serving the Woodfield subdivision located in Bethany, Ontario within the City of Kawartha Lakes. The drinking water system is classified as 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. The wells are designated as non-GUDI, meaning they are not considered groundwater under the direct influence of surface water.

Water Treatment Facility

The Woodfield water treatment facility includes a sodium hypochlorite feed system for primary and secondary disinfection, and a sodium silicate system for iron sequestration. Chlorine contact is provided through a 400 mm diameter, 25 m serpentine pipe installed adjacent to the pumphouse.

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 0.86 kilometres of PVC watermain and is not rated for fire protection. The system does not include treated water storage facilities, chlorine boosting stations, secondary disinfection processes, or pressure boosting capabilities within the control of the distribution system.

Table 2. Treatment Chemicals Used

| Chemical Name | Use | Supplier |
|---------------------|-------------------|--------------------------|
| Sodium Hypochlorite | Disinfection | Jutzi Water Technologies |
| Sodium Silicate | Iron Sequestering | Jutzi Water Technologies |

Summary of Non-Compliance

Table 3. Adverse Water Quality Incidents

Adverse Water Quality Incidents

| Date | AWQI # | Location | Problem | Details | Legislation | Corrective Action Taken |
|------------|---------------------|--------------|------------------|---|----------------|---|
| 2025 03 31 | 167681 (253103JS02) | Distribution | Loss of pressure | Loss of pressure due to generator fault during prolonged ice storm. | O. Reg. 170/03 | BWA issued March 31, 2025 by MOH. Bacti samples collected. Results returned clear. BWA rescinded April 5, 2025. |

Non-Compliance

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

Non-Compliance Identified in a Ministry Inspection

Table 4. Non-Compliance Identified in a Ministry Inspection

| Legislation | Requirement(s) System Failed to Meet | Duration of Failure (Dates) | Corrective Action | Status |
|----------------|--|-----------------------------|---|-----------|
| O. Reg. 170/03 | Continuous monitoring equipment that was being utilized to fulfill O. Reg. 170/03 requirements performing tests for the parameters with at least the minimum frequency | November 25 to 27, 2024 | Corrected analyzer on November 27, 2024 during further site investigation. Operators were retrained on SOP – Online Chlorine Analyzer | Completed |

| Legislation | Requirement(s) System Failed to Meet | Duration of Failure (Dates) | Corrective Action | Status |
|-------------|--|-----------------------------|--|--------|
| | and recording data with the prescribed format was not being met. | | Verification at the December 18, 2024 meeting. This incident was self-reported to MECP on November 28, 2024. | |

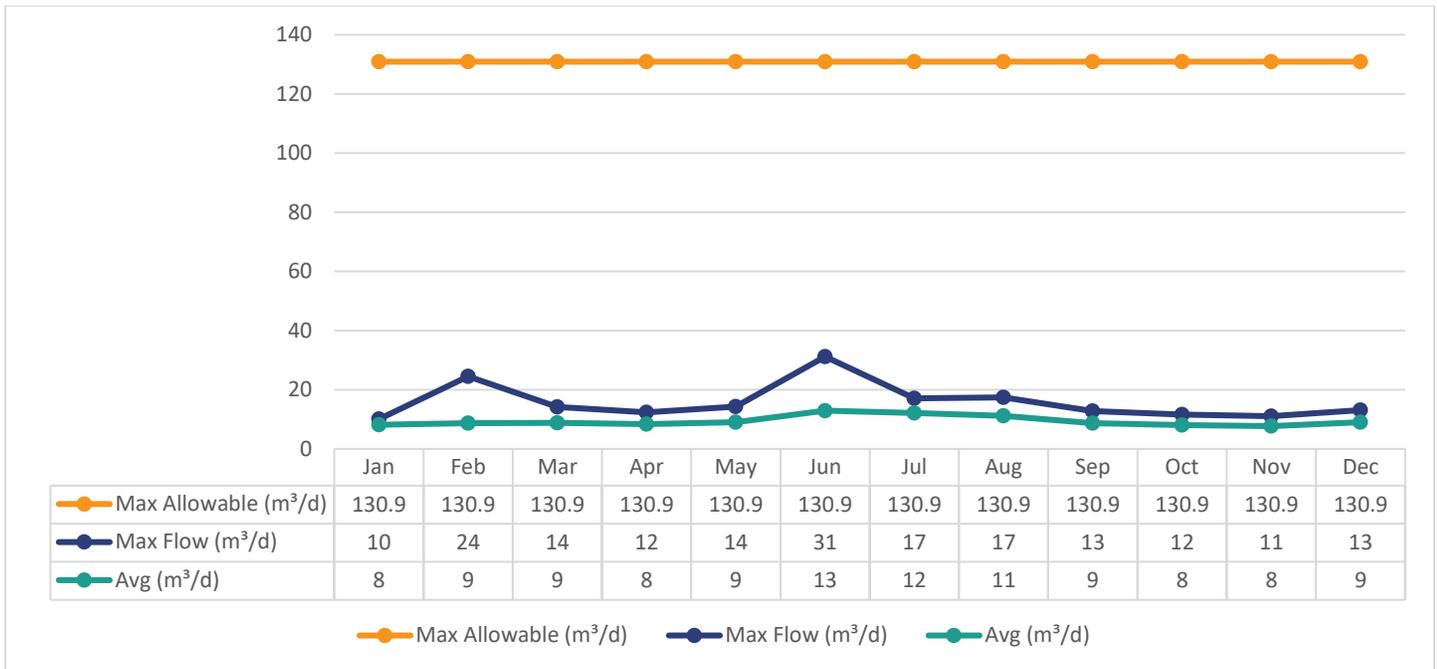
Flows

The Woodfield Drinking Water System is operating on average under half the rated capacity. The rated capacity of the system (treated water flows) is 295 m³/day.

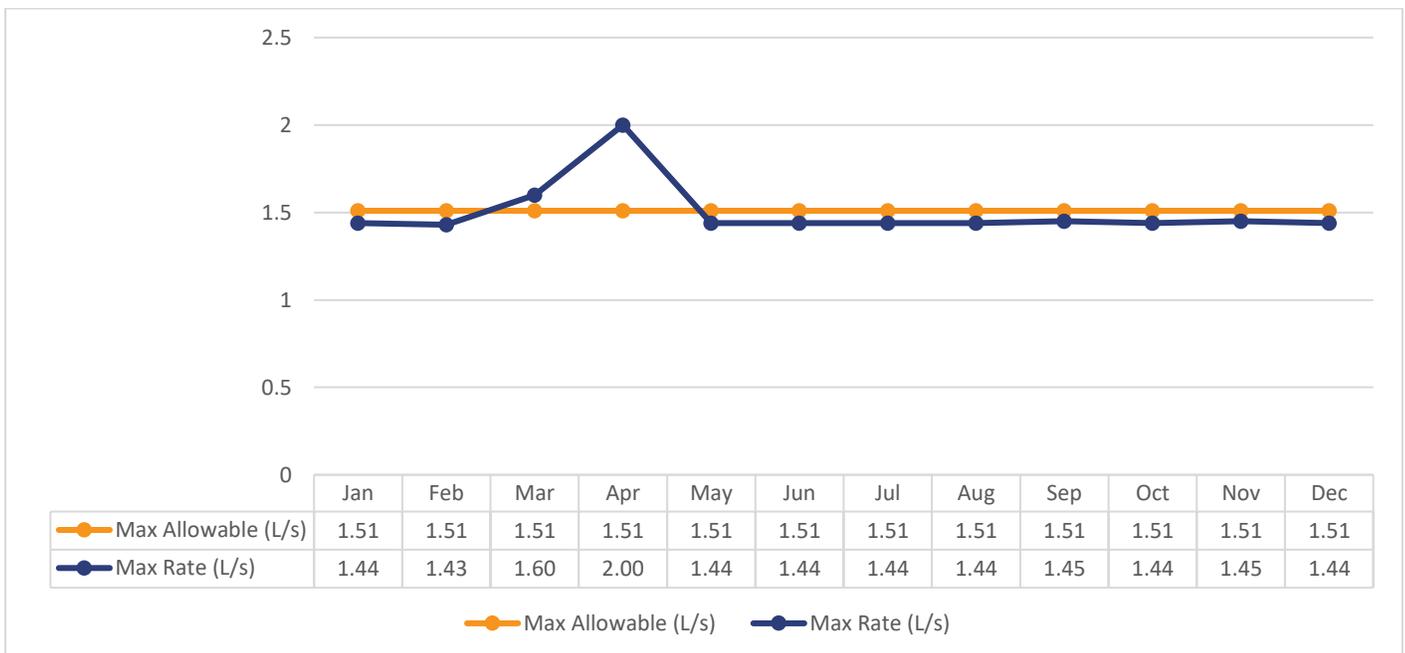
Raw Water Flows

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 #8680-AYSHVM. The confirmation of the data that was submitted is attached in Appendix A. The Permit to Take Water compliance criteria is in litres per minute (L/min) but for the purposes of this report the flow rate is reported in litres per second (L/sec) based on industry standard for flow monitoring recording.

Graph 1. Total Monthly Flows (m³/d) – Well #1 (Max Allowable PTTW)

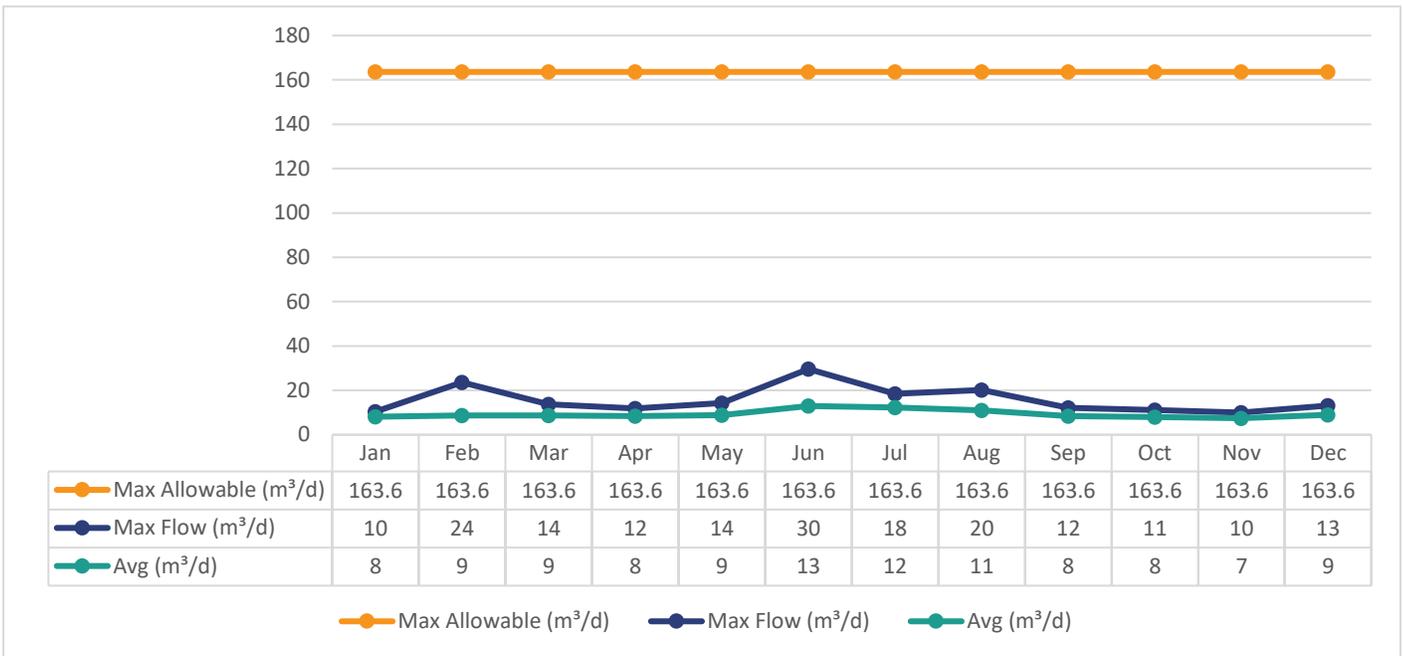


Graph 2. Monthly Rated Flows (L/s) – Well #1 (Max Allowable Rate PTTW)

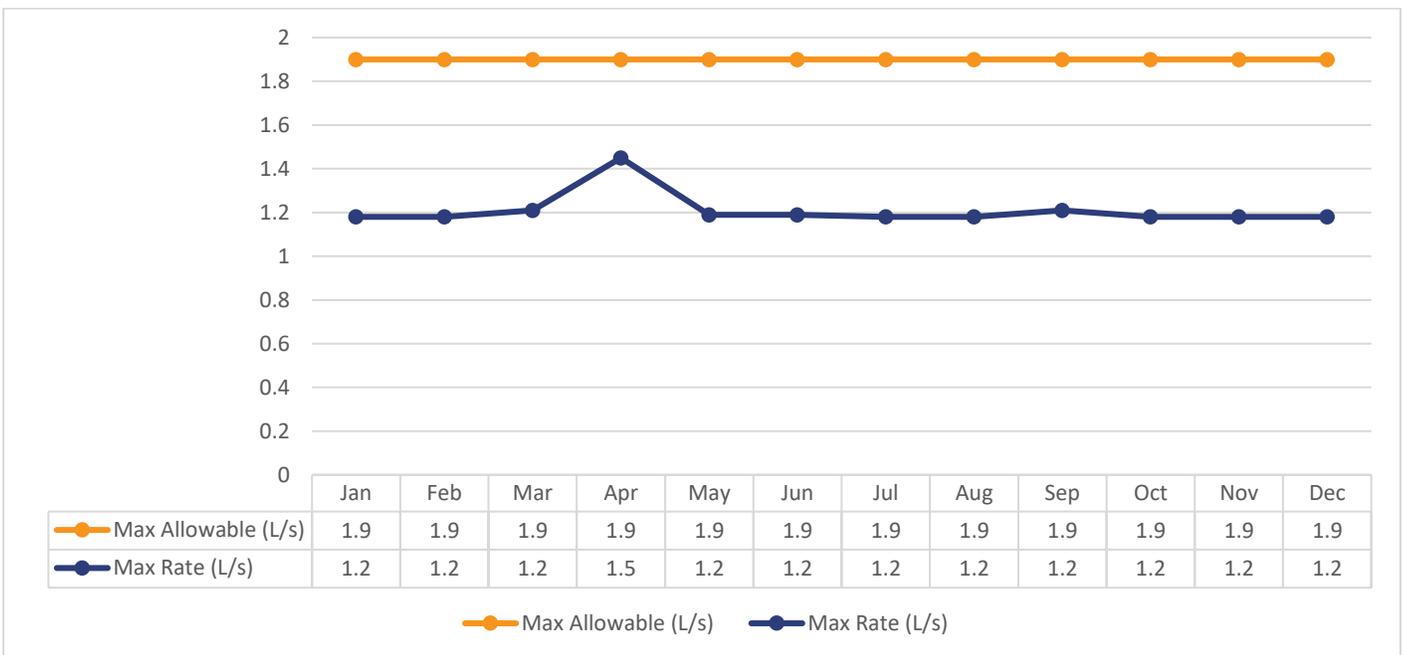


Note: Certain operational circumstances could cause results to be temporarily outside of the allowable rates. In March 2025, the allowable rate was momentarily surpassed as a result of pump start-up upon power being restored as a result of generator failure and did not indicate a true exceedance. In April 2025, the allowable rate was momentarily surpassed as a result of annual calibration of the flow meter and did not indicate a true exceedance. A true exceedance would be documented within this report.

Graph 3. Total Monthly Flows (m³/d) – Well #2 (Max Allowable PTTW)



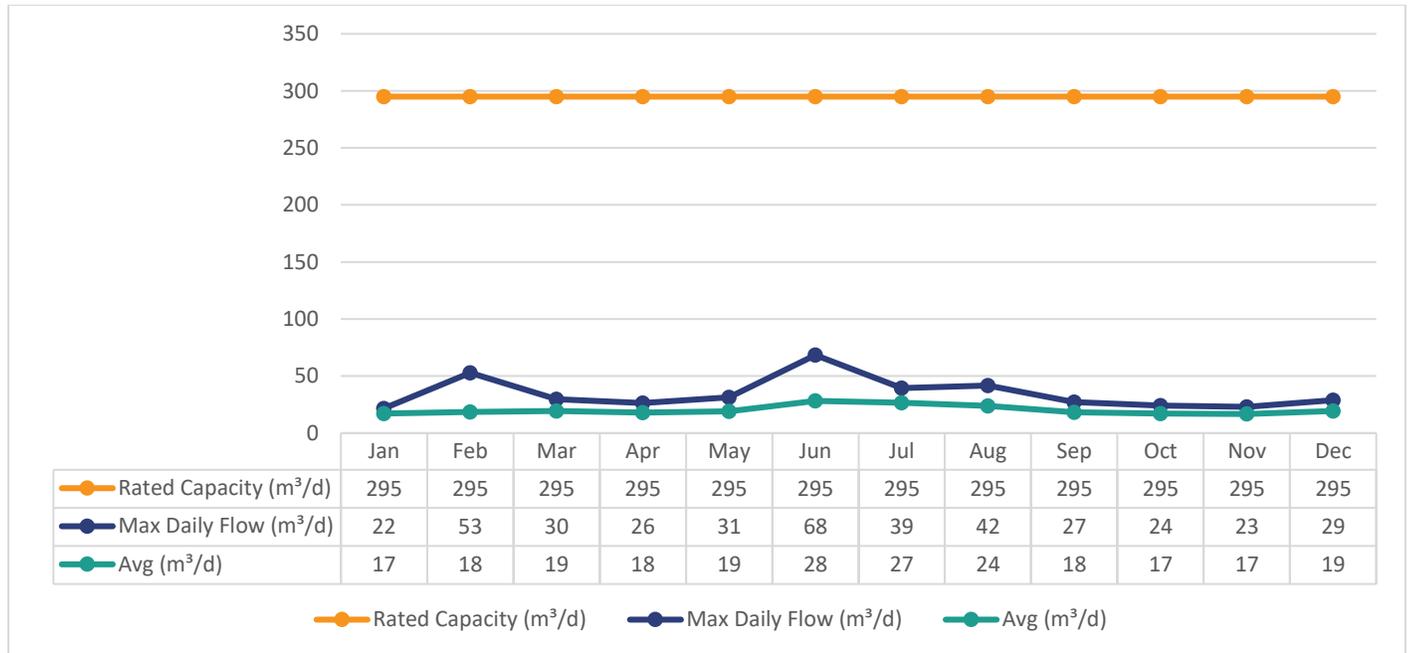
Graph 4. Monthly Rated Flows (L/s) – Well #2 (Max Allowable Rate PTTW)



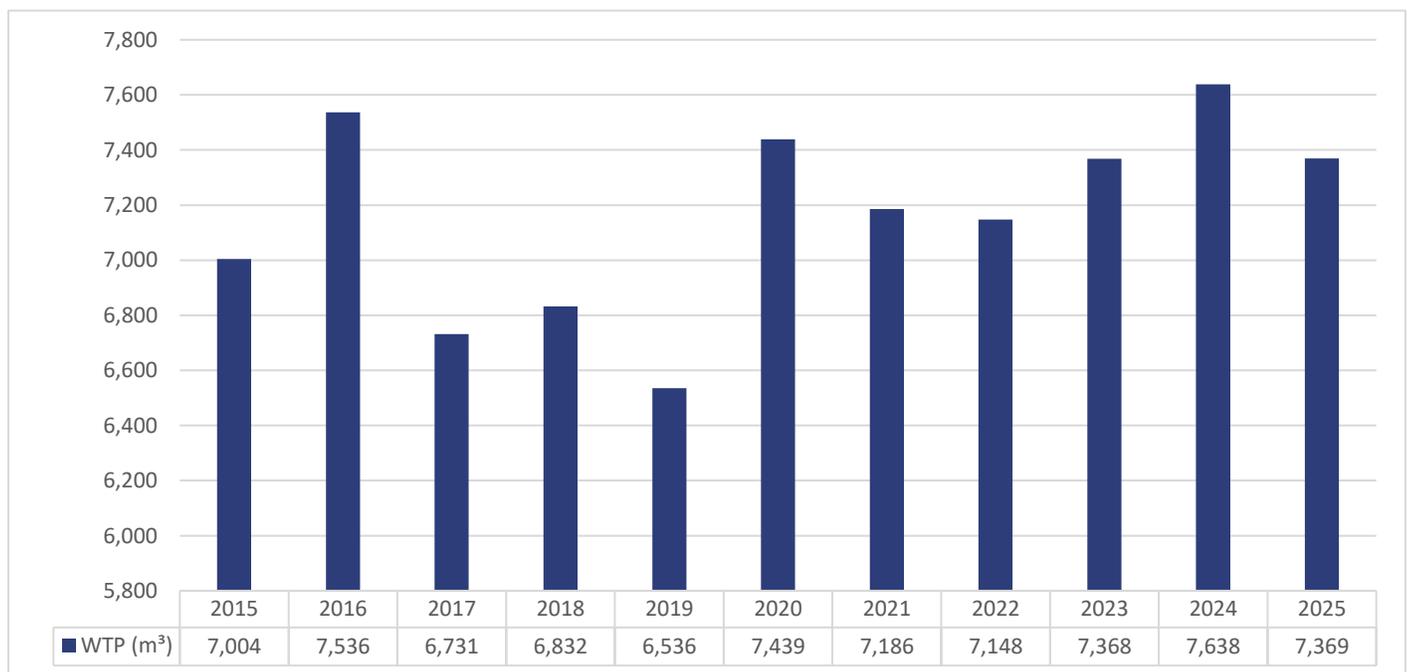
Treated Water Flows

The Treated Water flows are regulated under the Municipal Drinking Water Licence 141-116.

Graph 5. Monthly Rated Flows (m³/d) – Rated Capacity - MDWL



Graph 6. Annual Total Flow Comparison (m³)



Regulatory Sample Results Summary

Microbiological Testing

Table 5. 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 |
| Raw Well 1 | 26 | 0 | 0 | 0 | 0 | N/A | N/A |
| Raw Well 2 | 26 | 0 | 0 | 0 | 0 | N/A | N/A |
| Treated | 2 | 0 | 0 | 0 | 0 | 0 | 0 |
| Distribution | 60 | 0 | 0 | 0 | 0 | 0 | 4 |

OG = Overgrowth

HPC = Heterotrophic Plate Count

Operational Testing

Table 6. Operational Test Results

| Parameter | Number of Samples Collected | Range of Results Minimum | Range of Results Maximum |
|--|-----------------------------|--------------------------|--------------------------|
| Turbidity Well 1 (NTU) | 12 | 0.17 | 0.54 |
| Turbidity Well 2 (NTU) | 12 | 0.13 | 0.57 |
| Turbidity – TW (NTU) | 8760 | 0.00 | 1.00 |
| Chlorine | 8760 | 0.16 | 5.00 |
| Fluoride (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, any true exceedance would be documented in this report.

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 Nitrate are tested quarterly and the metals are

tested every five years 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 7. Inorganic Parameters Test Results

| | Sample Date (yyyy/mm/dd) | Sample Result | Unit of Measure | MAC | Exceedance |
|----------------------------|-------------------------------------|--------------------------|----------------------------|------------|-------------------|
| Treated Water | | | | | |
| Antimony | 2025 01 13 | <MDL 0.6 | µg/L | 6.0 | No |
| Arsenic | 2025 01 13 | <MDL 0.2 | µg/L | 10.0 | No |
| Barium | 2025 01 13 | 212.0 | µg/L | 1000.0 | No |
| Boron | 2025 01 13 | 21.0 | µg/L | 5000.0 | No |
| Cadmium | 2025 01 13 | <MDL 0.003 | µg/L | 5.0 | No |
| Chromium | 2025 01 13 | 0.14 | µg/L | 50.0 | No |
| Mercury | 2025 01 13 | <MDL 0.01 | µg/L | 1.0 | No |
| Selenium | 2025 01 13 | <MDL 0.04 | µg/L | 50.0 | No |
| Uranium | 2025 01 13 | 0.012 | µg/L | 20.0 | No |
| Additional Organics | | | | | |
| Fluoride | 2025 01 13 | 0.14 | mg/L | 1.5 | No |
| Nitrite | 2025 01 13 | <MDL 0.003 | mg/L | 1.0 | No |
| Nitrite | 2025 04 14 | <MDL 0.003 | mg/L | 1.0 | No |
| Nitrite | 2025 07 14 | <MDL 0.003 | mg/L | 1.0 | No |
| Nitrite | 2025 10 14 | <MDL 0.003 | mg/L | 1.0 | No |
| Nitrate | 2025 01 13 | 0.01 | mg/L | 10.0 | No |
| Nitrate | 2025 04 14 | 0.011 | mg/L | 10.0 | No |
| Nitrate | 2025 07 14 | 0.011 | mg/L | 10.0 | No |
| Nitrate | 2025 10 14 | 0.01 | mg/L | 10.0 | No |
| Sodium | 2025 01 13 | 18.1 | 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 8. 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) | 1 | 2 | 189 | 204 | N/A | N/A |
| pH | 1 | 2 | 8.21 | 8.29 | N/A | N/A |
| Lead (µg/L) | N/A | N/A | N/A | N/A | 10.0 | 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 9. Organic Parameters Test Results

| | Sample Date (yyyy/mm/dd) | Sample Result | Unit of Measure | MAC | Exceedance |
|--------------------------------------|--------------------------|---------------|-----------------|-------|------------|
| Treated Water | | | | | |
| Alachlor | 2025 01 13 | <MDL 0.02 | µg/L | 5.0 | No |
| Atrazine + N-dealkylated metabolites | 2025 01 13 | <MDL 0.01 | µg/L | 5.0 | No |
| Azinphos-methyl | 2025 01 13 | <MDL 0.05 | µg/L | 20.0 | No |
| Benzene | 2025 01 13 | <MDL 0.32 | µg/L | 1.0 | No |
| Benzo(a)pyrene | 2025 01 13 | <MDL 0.004 | µg/L | 0.01 | No |
| Bromoxynil | 2025 01 13 | <MDL 0.33 | µg/L | 5.0 | No |
| Carbaryl | 2025 01 13 | <MDL 0.05 | µg/L | 90.0 | No |
| Carbofuran | 2025 01 13 | <MDL 0.01 | µg/L | 90.0 | No |
| Carbon Tetrachloride | 2025 01 13 | <MDL 0.17 | µg/L | 2.0 | No |
| Chlorpyrifos | 2025 01 13 | <MDL 0.02 | µg/L | 90.0 | No |
| Diazinon | 2025 01 13 | <MDL 0.02 | µg/L | 20.0 | No |
| Dicamba | 2025 01 13 | <MDL 0.2 | µg/L | 120.0 | No |
| 1,2-Dichlorobenzene | 2025 01 13 | <MDL 0.41 | µg/L | 200.0 | No |
| 1,4-Dichlorobenzene | 2025 01 13 | <MDL 0.36 | µg/L | 5.0 | No |
| 1,2-Dichloroethane | 2025 01 13 | <MDL 0.35 | µg/L | 5.0 | No |
| 1,1-Dichloroethylene | 2025 01 13 | <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 13 | <MDL 0.35 | µg/L | 50.0 | No |
| 2,4-Dichlorophenol | 2025 01 13 | <MDL 0.15 | µg/L | 900.0 | No |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) | 2025 01 13 | <MDL 0.19 | µg/L | 100.0 | No |
| Diclofop-methyl | 2025 01 13 | <MDL 0.4 | µg/L | 9.0 | No |
| Dimethoate | 2025 01 13 | <MDL 0.06 | µg/L | 20.0 | No |
| Diquat | 2025 01 13 | <MDL 1.0 | µg/L | 70.0 | No |
| Diuron | 2025 01 13 | <MDL 0.03 | µg/L | 150.0 | No |
| Glyphosate | 2025 01 13 | <MDL 1.0 | µg/L | 280.0 | No |
| Malathion | 2025 01 13 | <MDL 0.02 | µg/L | 190.0 | No |
| 2-Methyl-4- chlorophenoxyacetic Acid (MCPA) | 2025 01 13 | <MDL 0.12 | µg/L | 100.0 | No |
| Metolachlor | 2025 01 13 | <MDL 0.01 | µg/L | 50.0 | No |
| Metribuzin | 2025 01 13 | <MDL 0.02 | µg/L | 80.0 | No |
| Monochlorobenzene (Chlorobenzene) | 2025 01 13 | <MDL 0.3 | µg/L | 80.0 | No |
| Paraquat | 2025 01 13 | <MDL 1.0 | µg/L | 10.0 | No |
| PCB | 2025 01 13 | <MDL 0.04 | µg/L | 3.0 | No |
| Pentachlorophenol | 2025 01 13 | <MDL 0.15 | µg/L | 60.0 | No |
| Phorate | 2025 01 13 | <MDL 0.01 | µg/L | 2.0 | No |
| Picloram | 2025 01 13 | <MDL 1.0 | µg/L | 190.0 | No |
| Prometryne | 2025 01 13 | <MDL 0.03 | µg/L | 1.0 | No |
| Simazine | 2025 01 13 | <MDL 0.01 | µg/L | 10.0 | No |
| Terbufos | 2025 01 13 | <MDL 0.01 | µg/L | 1.0 | No |
| Tetrachloroethylene | 2025 01 13 | <MDL 0.35 | µg/L | 10.0 | No |
| 2,3,4,6- Tetrachlorophenol | 2025 01 13 | <MDL 0.2 | µg/L | 100.0 | No |
| Triallate | 2025 01 13 | <MDL 0.01 | µg/L | 230.0 | No |
| Trichloroethylene | 2025 01 13 | <MDL 0.44 | µg/L | 5.0 | No |
| 2,4,6-Trichlorophenol | 2025 01 13 | <MDL 0.25 | µg/L | 5.0 | No |
| Trifluralin | 2025 01 13 | <MDL 0.02 | µg/L | 45.0 | No |
| Vinyl Chloride | 2025 01 13 | <MDL 0.17 | µg/L | 1.0 | No |
| Distribution Water | | | | | |
| Trihalomethane Total Annual Average Q1 | 2025 01 13 | 23.00 | µg/L | 100.0 | No |
| Trihalomethane Total Annual Average Q2 | 2025 04 14 | 22.00 | µg/L | 100.0 | No |
| Trihalomethane Total Annual Average Q3 | 2025 07 14 | 24.00 | µg/L | 100.0 | No |

| | Sample Date (yyyy/mm/dd) | Sample Result | Unit of Measure | MAC | Exceedance |
|--|-------------------------------------|--------------------------|----------------------------|------------|-------------------|
| Trihalomethane Total Annual Average Q4 | 2025 10 14 | 24.00 | µg/L | 100.0 | No |
| HAA Total Annual Average Q1 | 2025 01 13 | <MDL 5.3 | µg/L | 80.0 | No |
| HAA Total Annual Average Q2 | 2025 04 14 | <MDL 5.3 | µg/L | 80.0 | No |
| HAA Total Annual Average Q3 | 2025 07 14 | <MDL 5.3 | µg/L | 80.0 | No |
| HAA Total Annual Average Q4 | 2025 10 14 | <MDL 5.3 | µg/L | 80.0 | No |

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

MDL = Method Detection Limit

Additional Legislated Samples

There were no additional legislated samples required to report during this reporting period.

Minor Maintenance

- Generator Low Oil Pressure, Repair
- Diesel Generator Low Oil Pressure, Repair
- Troubleshoot and Repair Generator Fault, Low Coolant Temp Alarm

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](#) | [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: 8680-AYSHVM
Permit Holder: THE CORPORATION OF THE CITY OF KAWARTHA LAKES.
Received on: Feb 17, 2026 11:14 AM

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.

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CITY OF KAWARTHA LAKES | 2026/02/17
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