

# 20 25

City of Brantford  
Water  
System

Annual Summary Report



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# 2025 Annual Summary Report – Executive Summary

The City of Brantford is committed to providing our residents with a safe and adequate supply of drinking water that meets or surpasses applicable regulatory requirements in the Province of Ontario. The information in the Annual Summary Report is intended to inform the members of Council and the public about the current state of the City's Drinking Water System and to demonstrate the high quality of our drinking water.

The Brantford Water System is owned and operated by the Corporation of the City of Brantford. The raw water supply to produce drinking water is withdrawn from the Grand River through the Holmedale Canal. The raw water is treated at the Holmedale Water Treatment Plant before it is distributed through the extensive underground water pipe network. The water treatment plant is a state-of-the-art facility with the highest Class IV rating and is designed to produce up to 100 million liters per day (MLD) of drinking water. There are three reservoirs in the network in addition to an in-plant reservoir, one booster pumping station and two elevated tanks that are used in the distribution system to equalize water demand, to reduce pressure fluctuations and to provide adequate reserves for firefighting, power outages and other emergencies.

The municipal drinking water must satisfy the provincial requirements of O. Reg. 170/03 under the Safe Drinking Water Act, 2002 and additional requirements outlined in the Municipal Drinking Water License. The drinking water was tested for various operational, biological and chemical (inorganic and organic) parameters using a certified laboratory and all the parameters were within the regulatory limits. In 2025, 1688 bacteriological samples were tested in the distribution system and all of the samples complied with the regulation.

The quantity of raw water taken under the Permit to Take Water and the treated water produced under the Municipal Drinking Water License were in compliance with Provincial regulations.

The Ministry of Environment, Conservation and Parks (MECP) performs an annual inspection of the City's water treatment plant and the distribution system. Brantford's Drinking Water System received an impressive score of 100% in 2025.



## A. Background

The information in the Annual Summary Report is intended to inform members of Council and the public about the current state of the Drinking Water System and demonstrate that high quality drinking water is continually supplied to consumers.

This report has been prepared in accordance with the terms and requirements set out in the Safe Drinking Water Act (2002), as Section 11 – Annual Reports and Schedule 22 – Summary Reports of Ontario Regulation 170/03. It covers the period from January 1st to December 31st, 2025.

The 2025 Annual Summary Report will be available to the public without charge, beginning March 31st, 2025. A copy of this report can be obtained via the Internet ([www.brantford.ca](http://www.brantford.ca)) and at Brantford Customer Service by contacting (519)759-4150.

## B. Description of Drinking Water System

**Table 1: Description of the City of Brantford Drinking Water System**

Water System Element	Details
Drinking Water System Number	#220003564
Owner	The Corporation of the City of Brantford
Classification	Large Municipal Residential
Treatment	Class IV
Distribution	Class III
Raw Water Supply	Grand River (Holmedale Canal)
DWS Location	324 Grand River Ave.
Municipal Drinking Water License (MDWL)	063-101 Issue # 9, Issued: October 30th, 2024
Drinking Water Works Permit (DWWP)	#063-201 Issue # 7, Issued: October 30th, 2024
Permit to Take Water	#2375-BLHMW5
Bulk Water Receiving Customer	The Corporation of the County of Brant. Town of Cainsville Distribution System (Drinking Water System #: 260002616, Class I) which is owned and managed by the County of Brant.

The City of Brantford Water System is owned and operated by the Corporation of the City of Brantford. The Drinking Water System is a Large Municipal Residential System consisting of a Class IV Water Treatment Plant (Holmedale Water Treatment Plant) and a Class III Distribution System.

The Holmedale Water Treatment Plant is located at 324 Grand River Avenue in Brantford, Ontario. The City's raw water supply is drawn from the Grand River through the Holmedale Canal. The City is responsible for the overall management of the production and distribution of Brantford's drinking water to homes and businesses across the city. Specifically, this includes treatment of Grand River water, maintenance of the plant, distribution and metering systems, expansion of the network systems and meeting and/or exceeding the applicable regulatory requirements. The water treatment plant is designed to produce drinking water up to 100 million liters per day (MLD). The volume of water permitted to be taken from the Grand River for drinking water supply is up to 260 million liters per day (MLD) (Permit to Take Water #2375-BLHMW5 Issued on May 8th, 2017, expires on May 31st, 2027). The water treatment plant contains the following process units: Screening, coagulation, sand-ballasted flocculation (Violia's Actiflo®), sedimentation, ozonation, biological filtration, seasonal temporary reverse osmosis, UV disinfection, chlorination, chloramination and fluoridation.

Three reservoirs (in addition to an in-plant reservoir), one booster pumping station and two elevated tanks are used in the distribution system to equalize water demand, to reduce pressure fluctuations and to provide reserves for firefighting, power outages and other emergencies. A Residue Management Facility (RMF) treats the wastewater generated in the water production process for disposal in an environmentally sound manner. Wastewater treatment consists of concentrating the wastewater by three gravity settler thickeners and dewatering by two belt filter presses. Dewatered waste (sludge) is disposed at the Brantford Landfill.

The City of Brantford Water System is the water service provider to the Town of Cainsville Distribution System (Drinking Water System #:260002616, Class I) which is owned and managed by the County of Brant. Connection of the Tutela Heights area annexed by the City in 2017 to the City's water distribution system (disconnect from the Mount Pleasant well water system) was completed in January 2025.

## C. List of Water Treatment Chemicals Used

**Table 2: Water Treatment Chemicals**

Chemical Name	Chemical Use
Polyaluminum chloride	Primary Coagulant
Flopam AN 934 PWG	Settling Aid
Microsand	Settling Aid
Liquid oxygen	Primary Chemical for Ozone Generation
Sodium Hydroxide	pH adjustment following Reverse Osmosis (RO)
Chlorine gas	Primary Disinfectant
Ammonia gas	Used in combination with free chlorine for secondary disinfection
Hydrofluosilicic Acid	Fluoridation
Sulfur dioxide gas	Dechlorination Chemical

## D. Major Expenses

To maintain the water assets in optimal condition, the City regularly evaluates the condition and performance of the assets and plans upgrades accordingly with the 10-year capital program. Various critical capital projects delivered in 2025 are listed below.

**Table 3: Major Expenses**

Description of the Project	Cost
SCADA infrastructure, and process upgrades	\$200,000
Mobile Reverse Osmosis (March to May 2025)	\$1,107,377
Ozone Contact Chamber Cleanout	\$25,651
RMF Sludge Mixer Replacement	\$58,393
Reservoir Pump Rebuilds	\$86,402
High Lift Pump Station Electrical Upgrades	\$51,287
Reverse Osmosis Transformer Installation	\$850,084
<b>Total Expenses</b>	<b>\$2,292,792</b>

## E. Summary of Test Results Required Under O.Reg 170/03

### i) Operational Testing Required Under Schedule 7

Appendix A summarizes the Operational Testing required under Schedule 7. Water quality tests were conducted at the required frequency and all results were within compliance limits in 2025.

### ii) Bacteriological Testing Required Under Schedule 10

Table 4 summarizes the Bacteriological Testing required under Schedule 10. Bacteriological tests were conducted at the required frequency.

**Table 4: Results from Bacteriological Testing Required Under Schedule 10**

Source	Number of Samples	Range of Total Coliform (colonies per 100mL)	Range of E.Coli (colonies per 100mL)	Range of Background (colonies per 100mL)	Range of HPC (colonies per mL)	Number of Samples Tested for HPC	Percentage of Samples Tested for HPC
Raw	53	120-31,000	5-1,160	310-51,000	40-2340	55	100%
Treated	54	0	0	0	0	54	100%
Distribution	1688	0	0	0-99	0-99	876	51.9%

\*General bacteria population expressed as Background

\*\*HPC – Heterotrophic Plate Count – General bacteria population expressed as colony counts on a heterotrophic plate count  
Regulatory Limits for Treated and Distribution Samples: Total Coliform <1 colony/100mL, E. Coli - <1 colony/100mL

### iii) Summary of Inorganic Results Required Under Schedule 23

Appendix B summarizes the Inorganic parameter testing results required under Schedule 23; Samples were tested at the required frequency and all results were within compliance limits in 2025.

#### Nitrates

The City has experienced a gradual rise in quarterly nitrate sampling results exceeding half of the Maximum Acceptable Concentration (MAC-10 mg/L, half-MAC 5 mg/L) in the drinking water source from the Grand River. In response to this observed trend, the City has undertaken proactive monitoring and planning measures to manage potential seasonal variability in nitrate levels. Data trending demonstrates that nitrate levels tend to be higher in the cold winter months due to the reduced biological activity in the river that would otherwise consume nitrate. The occurrence of nitrate in the Grand River is a result of the cumulative inputs from rural non-point sources (such as agricultural activities), urban runoff and wastewater discharges upstream of the City of Brantford water treatment plant.<sup>1</sup>

The 2025 nitrate sampling data confirms the trends that have been observed in the past, showing that nitrate concentration in the river exceeded half of the MAC on regulated samples collected from January to April 2025 and again in December 2025. In 2025 the average nitrate concentration in the raw water was 7.37 mg/L, the maximum was 9.13 mg/L and the minimum was 3.05 mg/L. At the Point of Entry, the average was 7.00 mg/L, the minimum was 3.14 mg/L, and the maximum was 8.91 mg/L.

No corrective actions are required by the City when a water quality parameter level is between half its MAC and the MAC. However, as a proactive measure, City staff have been planning for the possibility that the nitrate concentration in the river could exceed the MAC at some point in the future. The City has procured a temporary Reverse Osmosis (RO) water treatment system to remove nitrate from a portion of the treated water to reduce the overall nitrate concentration in the treated water during the winter months.

An online nitrate analyzer was installed at the head gates in early 2025 to give the plant operator early notice when nitrate concentration is increasing in the river water. Increased nitrate monitoring was also implemented since January 2025 to ensure that the drinking water supply is safe.

A detailed summary of important information related to nitrate levels in drinking water and actions being taken to protect public health can be accessed at [Brantford.ca/Nitrate](https://brantford.ca/Nitrate).

#### iv) Summary of Organic Results required under Schedule 24

Appendix C summarizes the Organic parameters testing results required under Schedule 24; Samples were tested at the required frequency and all results were within compliance limits in 2025.

#### v) Summary of the results of tests required under the Municipal Drinking Water License (MDWL):

Under the City of Brantford Water System’s Municipal Drinking Water License, several parameters are required to be tested at varying frequencies and locations throughout the water treatment process and distribution system. Parameters tested include Lead, N-Nitrosodimethylamine (NDMA), Bromate, Microcystin and Total Suspended Solids (TSS).

#### Health Related Parameter - Lead

Table 5 summarizes the lead samples tested before service line replacement and the regulatory lead sampling requirement detailed in the License. The distribution system lead sample result was representative of the drinking water with results well below the MAC of 10 µg/L, while the residential samples taken from homes supplied by lead water service pipes had variable results with some of the results exceeding the MAC.

The City’s Lead Reduction Plan (LRP) main strategy for mitigating lead in tap water is replacing old lead water service pipes. After replacement, a lead sample is tested to assess the performance of this strategy. The results unequivocally demonstrate that replacing lead water services reduces the concentration of lead in the tap water well below the provincial limit. It is to be noted that the City provides free funding of up to \$1500 per water service to help with the cost of replacing a lead water service on the private property. The City also offers a low-interest loan of up to \$3,000 for eligible work. In 2025, seventy (70) lead service replacements were completed through the Lead Financial Incentive Program. A total of fifty-nine (59) grants were paid out in 2025 totaling \$88,500. Of the seventy residents who applied for the grant, only twelve (12) also opted for the loan with a total cost of \$33,864.27 paid in 2025.

**Table 5: Lead Sampling Results Summary**

Sampling Locations	Number of Sampling Points Tested	Number of Sampling Points Required by Licence	Minimum (µg/L)	Maximum (µg/L)	Average (µg/L)	pH	Alkalinity (mg/L as CaCO <sub>3</sub> )
Distribution	1	1	0.05	0.05	0.05	7.25	152
Non-residential	1	0	5.51	16.4	8.39	7.43	N/A*
Residential	121	20	0.02	59.1	5.11	7.48	N/A*
After Replacement	40	0	0.03	5.0	0.57	7.39	N/A*

\* N/A =Not Applicable

#### Health Related Parameter – Bromate

The monthly bromate testing at the POE is a requirement under the License. The results are summarized in Table 6. All the results were within the regulatory limit.

**Table 6: Summary of Bromate Test Results**

Month	Bromate (mg/L)	Within Regulatory Limit?
January	0.005*	Yes
February	0.005*	Yes
March	0.005*	Yes
April	0.01*	Yes
May	0.008	Yes
June	0.005*	Yes
July	0.005*	Yes
August	0.005*	Yes
September	0.007	Yes
October	0.005*	Yes
November	0.005*	Yes
December	0.005*	Yes

\*result was less than the method detection limit

### Health Related Parameter – N-Nitrosodimethylamine (NDMA)

Quarterly NDMA testing in the distribution system is a requirement under the License. The results are summarized in Table 7 with the POE for comparison.

**Table 7: Summary of NDMA Test Results**

Quarter	POE (µg/L)	Distribution (µg/L)	Within Regulatory Limit?
First	0.003	0.0034	Yes
Second	0.004	0.0026	Yes
Third	0.0024	0.0032	Yes
Fourth	0.0011	0.0027	Yes

## Algae Management Plan – Microcystin

Microcystin testing frequency is weekly on raw water and monthly at the POE from June 1 until October 31st as part of the City Algae Management Plan. All results for samples collected in 2025 had a microcystin concentration lower than the method detection limit.

## Environmental Discharge Parameter - Residue Management Facility – Total Suspended Solids (TSS)

Under the City of Brantford Water System’s License, the annual average concentration of TSS discharged from the RMF thickeners must be below 25 mg/L. Table 8 outlines the Monthly Average TSS for 2025. Each month was well below the 25 mg/L compliance limit with an annual average of 3.58 mg/L for 2025.

Table 8: Monthly Average TSS (mg/L)

Month	TSS (mg/L)	Within Regulatory Limit?
January	4.50	Yes
February	3.60	Yes
March	3.60	Yes
April	3.80	Yes
May	4.20	Yes
June	3.70	Yes
July	3.30	Yes
August	3.20	Yes
September	2.70	Yes
October	3.70	Yes
November	3.70	Yes
December	2.90	Yes
Annual Average	3.58	Yes

City staff respond to a water main break.



## F. Summary of Reporting Adverse Test Results and Other Problems (Schedule 16)

### **i) Adverse Bacteriological or Combined Chlorine Residual Results and Corrective Actions Results**

In 2025, 1688 bacteriological samples were collected and tested throughout the City. None of sample results were reported to be adverse by an accredited laboratory.

### **ii) Adverse Chemical Results and Corrective Actions**

#### **Sodium**

Samples collected from treated water and distribution system had an annual sodium average of 81.0 mg/L & 77.8 mg/L respectively. According to O.Reg 170/03, despite an aesthetic objective of 200 mg/L, any concentration above 20 mg/L is considered an adverse result. The City of Brantford Water System is required to report the results to the Ministry of Environment, Conservation and Parks (MECP) and Grand Erie Public Health (GEPH) once every 57 months. The sodium results were reported to both agencies in August 2022. Sodium concentration in the City's drinking water supply reflects the level found in the Grand River and cannot be removed by conventional water treatment methods.

### **iii) Non-Compliance Events with Provincial Regulations, Municipal Drinking Water License, Municipal Drinking Water Works Permit, and Other Official Documents**

No non-compliance events were reported in 2025.

After reviewing the Drinking Water System, the MECP issued a score of 100.00% for the 2025 Brantford Drinking Water System Annual Inspection.

## G. Holmedale Water Treatment Plant Flows

### i) Drinking Water Flows

According to the City of Brantford Water System's Municipal Drinking Water License (Schedule C), the maximum daily volume of treated water that flows from the Holmedale Water Treatment Plant into the distribution system must not exceed 100 MLD.

At the Holmedale Water Treatment Plant, the treated water flow is measured by continuous on-line flow meters and monitored and controlled via a Supervisor Control and Data Acquisition (SCADA) computer system. The daily average flow for 2025 was 34.15 MLD.

Figure 1 outlines the monthly average daily flow and maximum total daily flow of treated water for the Holmedale Water Treatment Plant in 2025. The monthly average daily flow was calculated by averaging the total daily flows for a given month. The monthly maximum daily flow corresponds to the highest daily average flow for that month.

Figure 1 Drinking Water Flows (Million Liters per day or MLD)

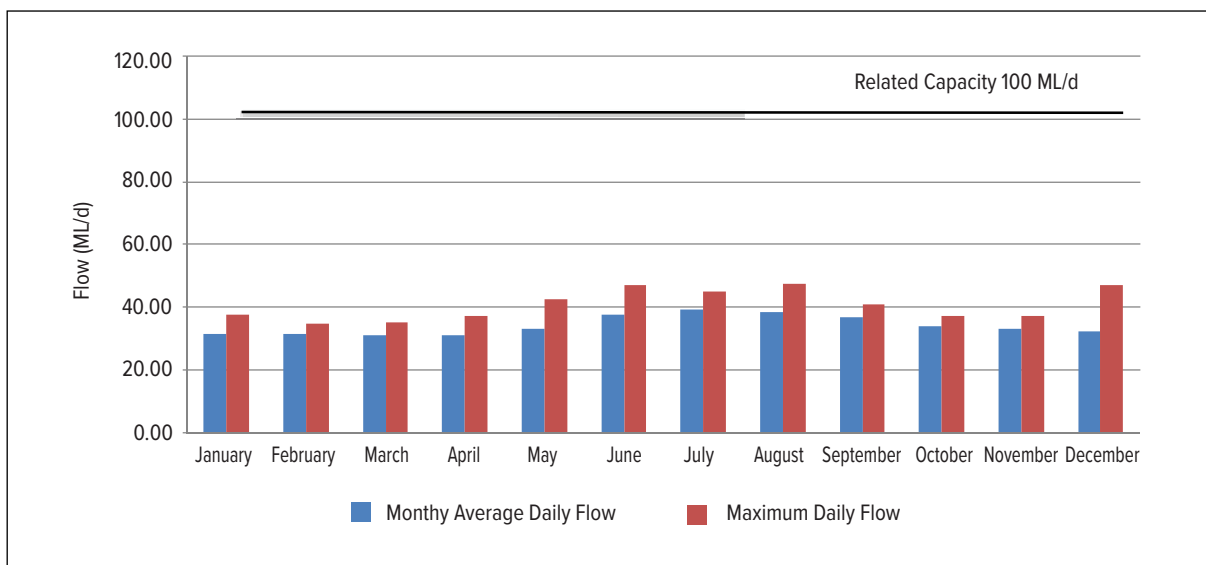


Figure 1 indicates that the monthly average daily flow and maximum total daily flow never exceeded the rated capacity in 2025. The highest monthly average daily flow was 39.37 MLD, which occurred in July. The highest maximum daily flow was 47.32 MLD, which occurred in August.

## ii) Grand River Flow Intake

The City of Brantford Water System’s Permit to Take Water (# 2375-BLHMW5) for the water treatment plant allows the City of Brantford to withdraw up to 260 MLD of raw water from the Grand River daily at a peak flow not to exceed 181,000 L/min. At the Holmedale Water Treatment Plant, the raw water flow is measured by continuous on-line flow meters and monitored and controlled via a SCADA computer system. The daily average raw water flow for 2025 was 37.82 MLD.

Figure 2 outlines the monthly average daily flow, maximum daily flow and % Grand River flow taken for the Holmedale Water Treatment Plant in 2025. The monthly average daily flow was calculated by averaging the total daily flows for a given month. The monthly maximum daily flow corresponds to the highest daily average flow for that month. The City’s Permit to Take Water requires monitoring of the water taking impact has on the Grand River. To ensure there are no negative effects to the Grand River, the City monitors the percentage of Grand River Flow Taken. The Percentage of Grand River Flow Taken is calculated by dividing the daily average flow taken from the Grand River by the Grand River flow measured at the Grand River Conservation Authority (GRCA) Brant Park monitoring station.

**Figure 2 Raw Water Flows (million liters per day or MLD)**

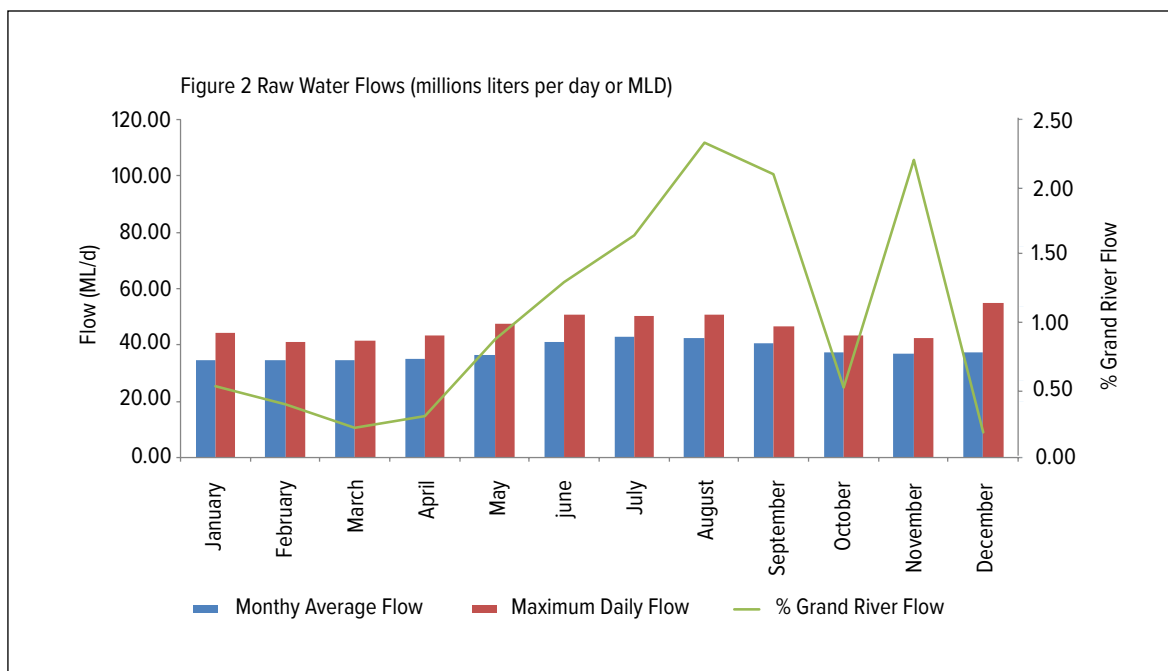


Figure 2 indicates that the highest monthly average daily flow was 42.93 MLD which occurred in July and the highest maximum daily flow was 54.98 MLD which occurred in December caused by a large water main break. The maximum daily flow was well below the daily flow limit of 260 MLD as outlined in the City’s Permit to Take Water.

The peak percentage of river flow taken from the Grand River was at 2.33% in August followed by a second peak at 2.20% in November. The two peaks can be attributed to lower flows in the Grand River due to a very dry and warm summer and fall. There were no reported complaints to the City of Brantford as a result of its water taking activities.

## Appendix A-Operational Parameter Summary

Table 9: Operational Parameter Summary-Water Treatment

Location	Parameter	Unit	MAC	O.Reg 170/03 Limit	Minimum	Maximum	Average	Within Regulatory Limit?
Grand River	Turbidity	NTU	N/A	N/A	2.69	30.86	7.53	N/A
Filter 1	Turbidity	NTU	N/A	less than 1.00	0.034	0.062	0.049	Yes
Filter 2	Turbidity	NTU	N/A	less than 1.00	0.024	0.051	0.040	Yes
Filter 3	Turbidity	NTU	N/A	less than 1.00	0.028	0.052	0.042	Yes
Filter 4	Turbidity	NTU	N/A	less than 1.00	0.033	0.064	0.049	Yes
Filter 5	Turbidity	NTU	N/A	less than 1.00	0.026	0.053	0.040	Yes
Filter 6	Turbidity	NTU	N/A	less than 1.00	0.034	0.065	0.044	Yes
Filter 7	Turbidity	NTU	N/A	less than 1.00	0.032	0.057	0.046	Yes
Filter 8	Turbidity	NTU	N/A	less than 1.00	0.037	0.067	0.052	Yes
CCC Effluent	Log Removal (Giardia)	N/A	N/A	more than 3.0	8.40	26.58	14.78	Yes
Brantford POE	Combined Chlorine	mg/L	3.00	N/A	2.50	2.65	2.57	Yes
Brantford POE	Turbidity	NTU	N/A	N/A	0.026	0.054	0.043	NRL
Brantford POE	Pressure	psi	N/A	more than 20	97.15	97.54	97.35	Yes
Brantford POE	Fluoride	mg/L	1.50	N/A	0.63	0.73	0.68	Yes

**Definitions:** POE - Point of Entry to the Distribution System (Treated Water)

CCC - Chlorine Contact Chambers

**Log Removal** – a shorthand term for  $\log_{10}$  removal, used in reference to the physical-chemical treatment of water to remove, kill, or inactivate pathogenic organisms.

**Combined Chlorine** -Combined chlorine residual is the chlorine species that exists in water in chemical combination with ammonia or other organic nitrogen compounds for the purpose of disinfection.

**MAC** - Maximum Acceptable Concentration

**NTU** - Nephelometric Turbidity Units

**N/A** - Not Applicable

**NRL** - No Regulatory Limit

**Table 10: Operational Parameter Summary – Water Distribution**

Location	Parameter	Unit	MAC	O.Reg 170/03 Limit	Minimum	Maximum	Average	Within Regulatory Limit?
Tollgate Reservoir	Total Chlorine	mg/L	3.00	N/A	1.98	2.52	2.24	Yes
Park Rd. Reservoir	Total Chlorine	mg/L	3.00	N/A	1.99	2.42	2.22	Yes
Northwest Reservoir	Total Chlorine	mg/L	3.00	N/A	2.25	2.53	2.40	Yes
Albion St. Booster	Pressure	psi	N/A	more than 20	90.18	90.97	90.57	Yes
Tollgate Reservoir	Pressure	psi	N/A	more than 20	57.96	58.95	58.52	Yes
Park Rd. Reservoir	Pressure	psi	N/A	more than 20	78.37	78.64	78.53	Yes
Northwest Reservoir	Pressure	psi	N/A	more than 20	84.23	86.69	85.26	Yes
Bell Lane	Pressure	psi	N/A	more than 20	50.10	50.44	50.27	Yes
Fifth Ave.	Pressure	psi	N/A	more than 20	96.12	96.74	96.49	Yes
Lawren Harris	Pressure	psi	N/A	more than 20	64.43	64.86	64.64	Yes
St. Andrews	Pressure	psi	N/A	more than 20	91.12	93.54	92.49	Yes
Empey St.	Pressure	psi	N/A	more than 20	76.50	82.51	81.89	Yes
Stauffer Rd.	Pressure	psi	N/A	more than 20	78.10	81.56	80.16	Yes

**Definitions: Combined Chlorine** - Combined chlorine residual is the chlorine species that exists in water in chemical combination with ammonia or other organic nitrogen compounds

**MAC** - Maximum Acceptable Concentration

**PSI**- Pounds per square inch

**N/A** - Not Applicable

The Grand River



## Appendix B – Inorganic Parameter Summary

Table 11: Inorganic Parameter Summary

Parameter	Recent Sample	Unit of Measure	MAC	MDL	Treated Water	Within Regulatory Limit?
Bromate	13-August-25	mg/L	0.01	0.005	<MDL	Yes
Bromide	13-August-25	mg/L	N/A	0.001	0.083	NRL
Nitrite (as Nitrogen)	13-August-25	mg/L	1	0.003	<MDL	Yes
Nitrate (as Nitrogen)	13-August-25	mg/L	10	0.006	3.14	Yes
Antimony	13-August-25	ug/L	6	0.60	<MDL	Yes
Arsenic	13-August-25	ug/L	10	0.2	0.5	Yes
Barium	13-August-25	ug/L	1000	0.02	30	Yes
Boron	13-August-25	ug/L	5000	2	46	Yes
Cadmium	13-August-25	ug/L	5	0.003	0.005	Yes
Chromium	13-August-25	ug/L	50	0.08	0.19	Yes
Mercury	13-August-25	ug/L	1	0.01	<MDL	Yes
Sodium	13-August-25	mg/L	20	0.01	65.7	No
Selenium	13-August-25	ug/L	50	0.04	0.13	Yes
Uranium	13-August-25	ug/L	20	0.002	0.238	Yes

**Definitions:** MAC – Maximum Acceptable Concentration

MDL – Method Detection Limit

NRL - No Regulatory Limit

City staff make repairs to a broken water main.



## Appendix C – Organic Parameter Summary

Table 12: Organic Parameter Summary

Parameter	Recent Sample	Unit of Measure	MAC	MDL	Treated Water	Within Regulatory Limit?
1,1-Dichloroethylene	13-August-25	µg/L	14	0.33	< MDL	Yes
1,2-Dichlorobenzene	13-August-25	µg/L	200	0.41	< MDL	Yes
1,2-Dichloroethane	13-August-25	µg/L	5	0.35	< MDL	Yes
1,4-Dichlorobenzene	13-August-25	µg/L	5	0.36	< MDL	Yes
2,3,4,6-tetrachlorophenol	13-August-25	µg/L	100	0.2	< MDL	Yes
2,4,6-trichlorophenol	13-August-25	µg/L	5	0.25	< MDL	Yes
2,4-dichlorophenol	13-August-25	µg/L	900	0.15	< MDL	Yes
2,4-dichlorophenoxyacetic acid (2,4-D)	13-August-25	µg/L	100	0.19	< MDL	Yes
Alachlor	13-August-25	µg/L	5	0.02	< MDL	Yes
Atrazine	13-August-25	µg/L	N/A	0.01	0.02	NRL
Atrazine + N-dealkylated metabolites	13-August-25	µg/L	5	0.01	0.06	Yes
Azinphos-methyl	13-August-25	µg/L	20	0.05	< MDL	Yes
Benzene	13-August-25	µg/L	1	0.32	< MDL	Yes
Benzo(a)pyrene	13-August-25	µg/L	0.01	0.004	< MDL	Yes
Bromoacetic Acid	13-August-25	µg/L	N/A	2.9	< MDL	NRL
Bromodichloromethane	13-August-25	µg/L	N/A	0.26	12	NRL
Bromoform	13-August-25	µg/L	N/A	0.34	0.60	NRL
Bromoxynil	13-August-25	µg/L	5	0.33	< MDL	Yes
Carbaryl	13-August-25	µg/L	90	0.05	< MDL	Yes
Carbofuran	13-August-25	µg/L	90	0.01	< MDL	Yes
Carbon tetrachloride	13-August-25	µg/L	2	0.17	< MDL	Yes
Chloroacetic Acid	13-August-25	µg/L	N/A	4.7	< MDL	NRL
Chloroform	13-August-25	µg/L	N/A	0.29	8.9	NRL
Chlorpyrifos	13-August-25	µg/L	90	0.02	< MDL	Yes
Desethyl atrazine	13-August-25	µg/L	N/A	0.01	0.02	NRL
Diazinon	13-August-25	µg/L	20	0.02	< MDL	Yes
Dibromoacetic Acid	13-August-25	µg/L	N/A	2	< MDL	NRL
Dibromochloromethane	13-August-25	µg/L	N/A	0.37	24	Yes
Dicamba	13-August-25	µg/L	120	0.2	< MDL	Yes
Dichloroacetic Acid	13-August-25	µg/L	N/A	2.6	4.6	NRL
Dichloromethane	13-August-25	µg/L	50	0.35	< MDL	Yes

## Appendix C – Organic Parameter Summary

Table 12: Organic Parameter Summary (continued)

Parameter	Recent Sample	Unit of Measure	MAC	MDL	Treated Water	Within Regulatory Limit?
Diclofop-methyl	13-August-25	µg/L	9	0.4	< MDL	Yes
Dimethoate	13-August-25	µg/L	20	0.06	< MDL	Yes
Diquat	13-August-25	µg/L	70	1	< MDL	Yes
Diuron	13-August-25	µg/L	150	0.03	< MDL	Yes
Geosmin	13-August-25	µg/L	N/A	3	< MDL	NRL
Glyphosate	13-August-25	µg/L	280	1	< MDL	Yes
Malathion	13-August-25	µg/L	190	0.02	< MDL	Yes
MCPA	13-August-25	µg/L	0.1	0.00012	< MDL	Yes
Metolachlor	13-August-25	µg/L	50	0.01	0.05	Yes
Metribuzin	13-August-25	µg/L	80	0.02	< MDL	Yes
MIB	13-August-25	µg/L	N/A	3	< MDL	NRL
Monochlorobenzene	13-August-25	µg/L	80	.30	< MDL	Yes
NDMA N-Nitrosodimethylamine	13-August-25	µg/L	0.009	0.0009	< MDL	Yes
Paraquat	13-August-25	µg/L	10	1	< MDL	Yes
Pentachlorophenol	13-August-25	µg/L	60	0.15	< MDL	Yes
Phorate	13-August-25	µg/L	2	0.01	< MDL	Yes
Picloram	13-August-25	µg/L	190	1	< MDL	Yes
Polychlorinated Biphenyls (PCBs) - Total	13-August-25	µg/L	3	0.04	< MDL	Yes
Prometryne	13-August-25	µg/L	1	0.03	< MDL	Yes
Simazine	13-August-25	µg/L	10	0.01	< MDL	Yes
Terbufos	13-August-25	µg/L	1	0.01	< MDL	Yes
Tetrachloroethylene	13-August-25	µg/L	30	0.35	< MDL	Yes
THMs (total)	13-August-25	µg/L	100	0.37	59	Yes
Total Haloacetic Acids (HAA5)	13-August-25	ng/L	80	5.3	11.1	Yes
Triallate	13-August-25	ng/L	230	0.01	< MDL	Yes
Trichloroacetic Acid	13-August-25	µg/L	N/A	5.3	< MDL	NRL
Trichloroethylene	13-August-25	µg/L	5	0.44	< MDL	Yes
Trifluralin	13-August-25	µg/L	45	0.02	< MDL	Yes
Vinyl Chloride	13-August-25	µg/L	1	.17	< MDL	Yes

**Definitions:** MDL – Method Detection Limit      MAC – Maximum Acceptable Concentration  
 NRL – No Regulatory Limit      N/A – Not Available

