

# Carleton Place Drinking Water System

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Waterworks # 210000372

System Category – Large Municipal Residential

## Annual Water Report

Prepared For: The Town of Carleton Place

Reporting Period of January 1<sup>st</sup> – December 31<sup>st</sup> 2021

Issued: February 25, 2022

Revision: 0

Operating Authority:



This report has been prepared to satisfy the annual reporting requirements in O.Reg 170/03

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## Report Availability

The Carleton Place Drinking Water system (DWS) serves more than 10,100 residents and the annual report will be available to residents at the Town of Carleton Place Municipal Office and on the website ([www.carletonplace.ca](http://www.carletonplace.ca)). Notification will be provided on the website and at the Municipal Office and copies provided free of charge if requested.

The Town of Carleton Place Municipal Office is located at 175 Bridge Street, Carleton Place, Ontario.

There are no additional drinking water systems that receive water from this facility.

## Compliance Report Card

| Compliance Event  | # of Events | Details  |
|---|-------------|--|
| Ministry of Environment Inspections                             | 0           | Last Inspection was December 15, 2020 and was reported in the 2020 Annual Report |
| Municipal Drinking Water Licence<br>Drinking Water Works Permit | N/A         | Renewal of Licences completed in 2021<br>New Expiry Date 2026-02-25              |
| Ministry of Labour Inspections                                  | 0           | No Inspections during the reporting period                                       |
| QEMS External Audit   | 1           | One (1) External Surveillance Audit  |
| AWQI's  | 0           | See AWQI section   |
| Non-Compliance  | 0           | See Non-Compliance section   |

## System Process Description

Raw water is directed from the Mississippi River through a series of screens and into the raw water well. The wet well is equipped with low lift pumps which move the raw water to the two (2) Actiflo™ treatment process trains. The common raw water header is equipped with a flow meter. An in-line static mixer and coagulant injection point are located just upstream of the flow meter. The system is designed to provide pre-chlorination and zebra mussel control.

Each Actiflo™ treatment train consists of a coagulation tank, an injection tank, a maturation tank and lamella settling tubes. Each treatment train is complete with Microsand recirculation pumps, piping and Hydrocyclones, which are used to separate the Microsand from residual solids. A polymer coagulant aid is added to the process at the Hydrocyclones.

The effluent from the two (2) Actiflo™ settling tanks is discharged to a concrete splitter box which divides the flow to three (3) cylindrical double compartment dual media (sand/antracite) gravity filters. The filters are each equipped with underdrains, self-contained backwash storage compartments, air scour systems and automated control valves for backwash operations. Filtered water is chlorinated and fluoridated prior to being directed to two (2) underground storage reservoirs, which include isolation gates and piping for flow control. The Carleton Place DWS has provision to add lime to the filtered water. Four (4) high lift pumps discharge treated water into the distribution system.

Backwash wastewater and Actiflo™ residuals are discharged to a two compartment settling tank equipped with two sludge pumps and two supernatant pumps. One compartment is configured to receive the Actiflo residuals and one compartment is configured to receive the filter backwash residue. The Actiflo compartment is configured to send all residues to the on-site pumping station. The pumping station pumps the residue to the sewer collection system.

The filter backwash compartment is configured to pump the supernatant discharged to the Mississippi River while settled sludge is discharged to the sanitary sewer.

The distribution system for the Town of Carleton Place includes a 3,180 m<sup>3</sup> elevated water storage tower located on Nelson Street, east of Park Street. The water tower has provision for chlorine boosting with sodium hypochlorite.

### Treatment Chemicals used during the reporting year:

| Chemical Name         | Use                                | Supplier |
|-----------------------|------------------------------------|----------|
| PAS8                  | Primary Coagulation                | Kemira   |
| Polymer               | Coagulation Aid                    | BASF     |
| Hydrofluorosilic Acid | Fluoridation                       | Brenntag |
| Chlorine Gas          | Primary Disinfection               | Brenntag |
| Sodium Hypochlorite   | Distribution Disinfection Boosting | Brenntag |

## Summary of Non-Compliance

### Adverse Water Quality Incidents

There were no adverse water quality incidents.

### Non-Compliance’s Reported by the Operating Authority

| Legislation  | requirement(s) system failed to meet | duration of the failure (i.e. date(s)) | Corrective Action | Status |
|--|--------------------------------------|--|-------------------|--------|
| There were no non-compliance issues reported by the operating authority. |                                      |  |                   |        |

### Non-Compliance Identified in a Ministry Inspection:

| Legislation  | requirement(s) system failed to meet | duration of the failure (i.e. date(s)) | Corrective Action | Status |
|--|--------------------------------------|--|-------------------|--------|
| Last Inspection was December 15 2020 for the drinking water system |                                      |  |                   |        |

## Flows

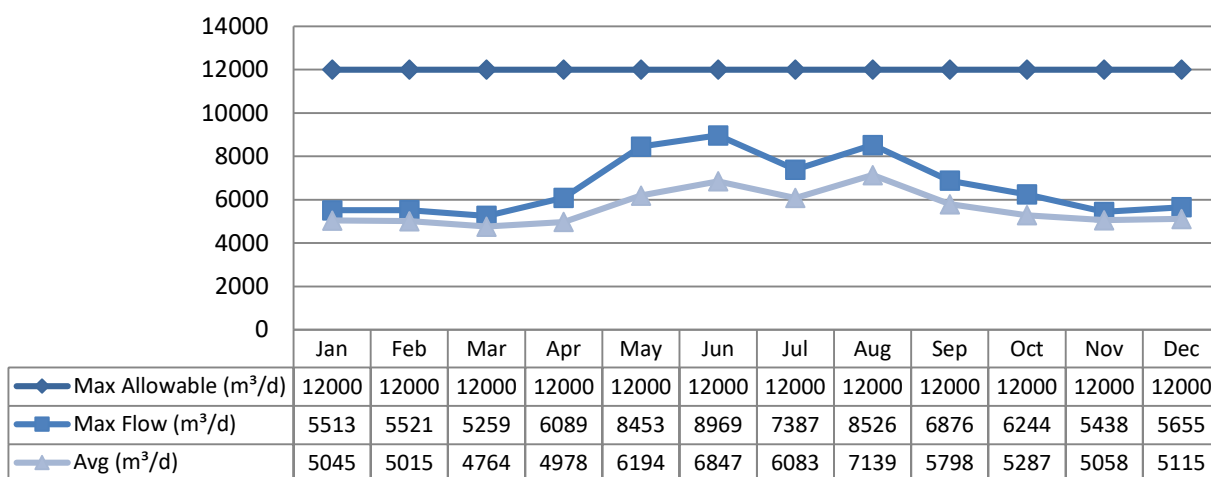
The Carleton Place Drinking Water System exceeded half the rated capacity on average the months of May, June, July and August. Max daily flows exceeded half the capacity in May, June, July and August.

### Raw Water Flows

The Raw Water flows are regulated under the Permit to Take Water. 2021 Raw Flow Data was submitted to the Ministry electronically under permit #1310-9UHPPW. The confirmation is attached in Appendix A.

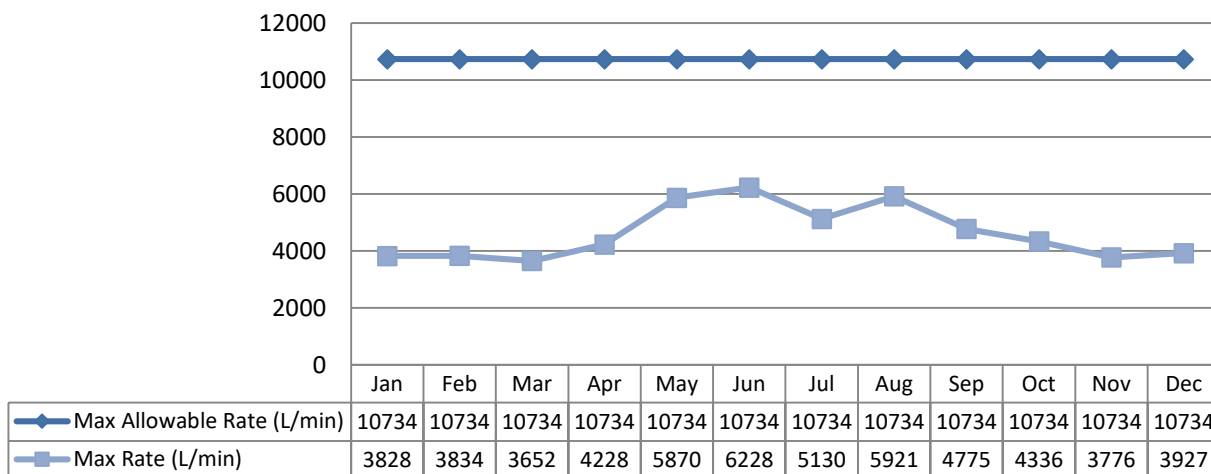
#### Total Monthly Flows (m<sup>3</sup>/d)

Max Allowable PTTW



#### Monthly Rated Flows (L/min)

Max allowable rate - PTTW

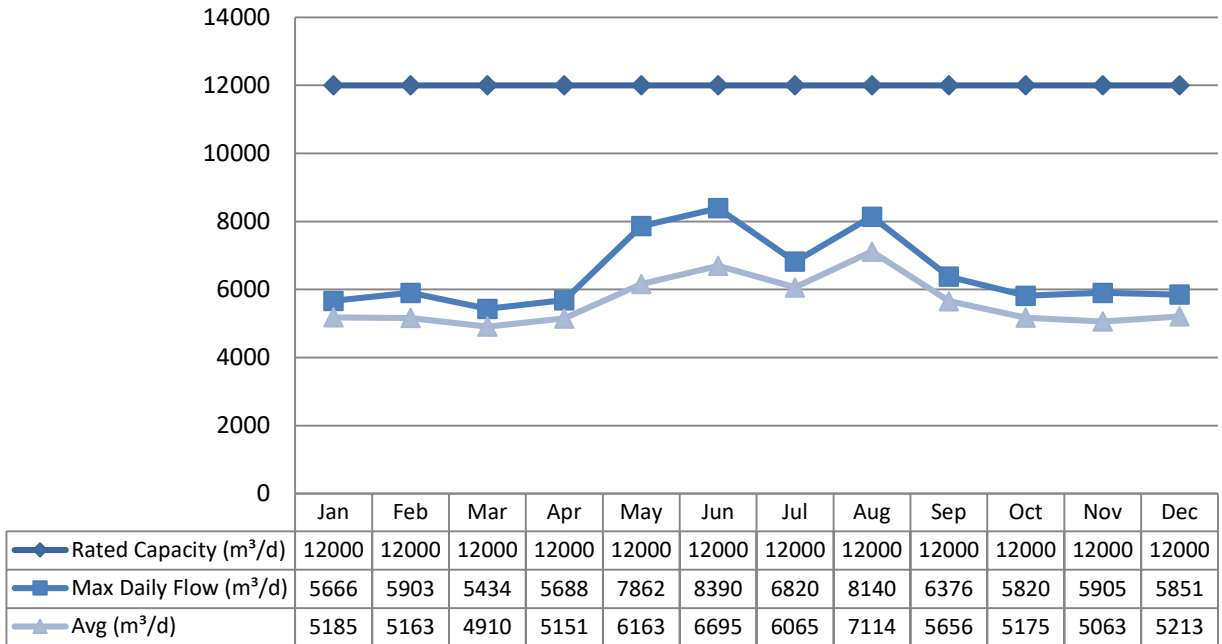


**Treated Water Flows**

The Treated Water flows are regulated under the Municipal Licence.

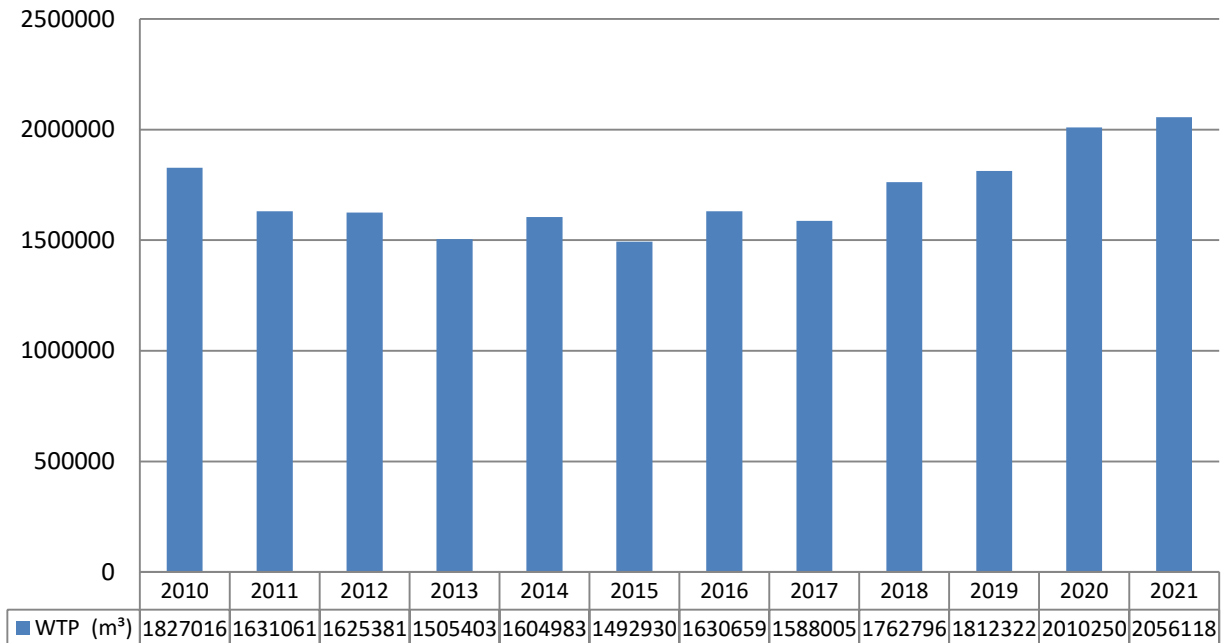
**Monthly Rated Flows**

Rated Capacity - MDWL



**Annual Total Flow Comparison**

Total Annual m³



## Regulatory Sample Results Summary

### Microbiological Testing

|                    | No. of Samples Collected | Range of E.Coli Results |     | Range of Total Coliform Results |     | Number of HPC Samples | Range of HPC Results |     |
|--------------------|--------------------------|-------------------------|-----|---------------------------------|-----|-----------------------|----------------------|-----|
|                    |                          | Min                     | Max | Min                             | Max |                       | Min                  | Max |
| Raw Water          | 52                       | 0                       | 14  | 0                               | 134 |                       |                      |     |
| Treated Water      | 53                       | 0                       | 0   | 0                               | 0   | 53                    | 2                    | 10  |
| Distribution Water | 321                      | 0                       | 0   | 0                               | 0   | 321                   | 2                    | 60  |

### Operational Testing

|   | No. of Samples Collected | Range of Results |         |
|---|--------------------------|------------------|---------|
|   |                          | Minimum          | Maximum |
| Turbidity, In-House (NTU) - RW                          | 115                      | 0.139            | 19.9    |
| Turbidity, On-Line (NTU) - TW                           | 8760                     | 0.05             | 2.0     |
| Turbidity, On-Line (NTU) - Filt1A                       | 8760                     | 0.05             | 1.01    |
| Turbidity, On-Line (NTU) - Filt1B                       | 8760                     | 0.04             | 1.55    |
| Turbidity, On-Line (NTU) - Filt2A                       | 8760                     | 0.02             | 0.91    |
| Turbidity, On-Line (NTU) - Filt2B                       | 8760                     | 0.05             | 1.02    |
| Turbidity, On-Line (NTU) - Filt3A                       | 8760                     | 0.05             | 0.98    |
| Turbidity, On-Line (NTU) - Filt3B                       | 8760                     | 0.04             | 0.94    |
| Free Chlorine Residual, On-Line (mg/L) - TW             | 8760                     | 0.97             | 3.48    |
| Free Chlorine Residual, In-House (mg/L) - TW            | 131                      | 1.26             | 2.5     |
| Free Chlorine Residual, TW Field (mg/L) Lab Upload - TW | 53                       | 1.6              | 2.2     |
| Total Chlorine Residual, In-House (mg/L) - TW           | 130                      | 1.83             | 2.84    |
| Free Chlorine Residual, On-Line (mg/L) - DW             | 8760                     | 0                | 2.96    |
| Free Chlorine Residual, DW Field (mg/L) Lab Upload - DW | 321                      | 0.73             | 1.95    |
| Fluoride Residual, On-Line (mg/L) - TW                  | 8760                     | 0                | 1.5     |
| Fluoride Residual, In-House (mg/L) - TW                 | 114                      | 0.04             | 1.97    |

NOTE: 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 annually 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
- BDL = Below the laboratory detection level



|                              | Sample Date<br>(yyyy/mm/dd) | Sample Result    | MAC    | No. of Exceedances |         |
|------------------------------|-----------------------------|------------------|--------|--------------------|---------|
|                              |                             |                  |        | MAC                | 1/2 MAC |
| <b>Treated Water</b>         |                             |                  |        |                    |         |
| Antimony: Sb (ug/L) - TW     | 2021/01/29                  | < 0.1            | 6.0    | No                 | No      |
| Arsenic: As (ug/L) - TW      | 2021/01/29                  | 0.2              | 10.0   | No                 | No      |
| Barium: Ba (ug/L) - TW       | 2021/01/29                  | 43.0             | 1000.0 | No                 | No      |
| Boron: B (ug/L) - TW         | 2021/01/29                  | 8.0              | 5000.0 | No                 | No      |
| Cadmium: Cd (ug/L) - TW      | 2021/01/29                  | < 0.02           | 5.0    | No                 | No      |
| Chromium: Cr (ug/L) - TW     | 2021/01/29                  | < 2.0            | 50.0   | No                 | No      |
| Mercury: Hg (ug/L) - TW      | 2021/01/29                  | < 0.02           | 1.0    | No                 | No      |
| Selenium: Se (ug/L) - TW     | 2021/01/29                  | < 1.0            | 50.0   | No                 | No      |
| Uranium: U (ug/L) - TW       | 2021/01/29                  | < 0.05           | 20.0   | No                 | No      |
| <b>Additional Inorganics</b> |                             |                  |        |                    |         |
| Fluoride (mg/L) - TW         | 2021                        | Min 0.0- Max 1.5 | 1.5    | No                 | No      |
| Nitrite (mg/L) - TW          | 2021/01/25                  | < 0.1            | 1.0    | No                 | No      |
| Nitrite (mg/L) - TW          | 2021/02/09                  | < 0.1            | 1.0    | No                 | No      |
| Nitrite (mg/L) - TW          | 2021/04/12                  | < 0.1            | 1.0    | No                 | No      |
| Nitrite (mg/L) - TW          | 2021/07/13                  | < 0.1            | 1.0    | No                 | No      |
| Nitrite (mg/L) - TW          | 2021/10/14                  | < 0.1            | 1.0    | No                 | No      |
| Nitrite (mg/L) - TW          | 2021/11/09                  | < 0.1            | 1.0    | No                 | No      |
| Nitrate (mg/L) - TW          | 2021/01/25                  | 0.1              | 10.0   | No                 | No      |
| Nitrate (mg/L) - TW          | 2021/02/09                  | < 0.1            | 1.0    | No                 | No      |
| Nitrate (mg/L) - TW          | 2021/04/12                  | < 0.1            | 10.0   | No                 | No      |
| Nitrate (mg/L) - TW          | 2021/07/13                  | < 0.1            | 10.0   | No                 | No      |
| Nitrate (mg/L) - TW          | 2021/10/14                  | < 0.1            | 10.0   | No                 | No      |
| Nitrate (mg/L) - TW          | 2021/11/09                  | < 0.1            | 1.0    | No                 | No      |
| Sodium: Na (mg/L) - TW       | 2020/02/25                  | 5.3              | 20*    | No                 | No      |

\*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. Lead samples will be collected in February and July 2023.

| Distribution System | Number of Sampling Points | Number of Samples | Range of Results (mg/L) |         | MAC (ug/L) | Number of Exceedances |
|---------------------|---------------------------|-------------------|-------------------------|---------|------------|-----------------------|
|                     |                           |                   | Minimum                 | Maximum |            |                       |
| Alkalinity (mg/L)   | 6                         | 6                 | 53                      | 62      |            |                       |
| pH                  | 6                         | 6                 | 6.04                    | 7.08    |            |                       |
| Lead (ug/l)         | 6                         | 6                 | <0.0002                 | 0.00053 | 10         | 0                     |

Organic Parameters

These parameters are tested annually 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.

|   | Sample Date (yyyy/mm/dd) | Sample Result | MAC    | Number of Exceedances |         |
|---|--------------------------|---------------|--------|-----------------------|---------|
|   |                          |               |        | MAC                   | 1/2 MAC |
| <b>Treated Water</b>                                |                          |               |        |                       |         |
| Alachlor (ug/L) - TW                                | 2021/01/25               | <MDL 0.3      | 5.00   | No                    | No      |
| Azinphos-methyl (ug/L) - TW                         | 2021/01/25               | <MDL 1.0      | 20.00  | No                    | No      |
| Benzene (ug/L) - TW                                 | 2021/01/25               | <MDL 0.5      | 1.00   | No                    | No      |
| Benzo(a)pyrene (ug/L) - TW                          | 2021/01/25               | <MDL 0.005    | 0.01   | No                    | No      |
| Bromoxynil (ug/L) - TW                              | 2021/01/25               | <MDL 0.5      | 5.00   | No                    | No      |
| Carbaryl (ug/L) - TW                                | 2021/01/25               | <MDL 3.0      | 90.00  | No                    | No      |
| Carbofuran (ug/L) - TW                              | 2021/01/25               | <MDL 1.0      | 90.00  | No                    | No      |
| Carbon Tetrachloride (ug/L) - TW                    | 2021/01/25               | <MDL 0.2      | 2.00   | No                    | No      |
| Chlorpyrifos (ug/L) - TW                            | 2021/01/25               | <MDL 0.5      | 90.00  | No                    | No      |
| Diazinon (ug/L) - TW                                | 2021/01/25               | <MDL 1.0      | 20.00  | No                    | No      |
| Dicamba (ug/L) - TW                                 | 2021/01/25               | <MDL 10.0     | 120.00 | No                    | No      |
| 1,2-Dichlorobenzene (ug/L) - TW                     | 2021/01/25               | <MDL 0.5      | 200.00 | No                    | No      |
| 1,4-Dichlorobenzene (ug/L) - TW                     | 2021/01/25               | <MDL 0.5      | 5.00   | No                    | No      |
| 1,2-Dichloroethane (ug/L) - TW                      | 2021/01/25               | <MDL 0.5      | 5.00   | No                    | No      |
| 1,1-Dichloroethane (ug/L) - TW                      | 2021/01/25               | <MDL 0.5      | 14.00  | No                    | No      |
| Dichloromethane (Methylene Chloride) (ug/L) - TW    | 2021/01/25               | <MDL 5.0      | 50.00  | No                    | No      |
| 2,4-Dichlorophenol (ug/L) - TW                      | 2021/01/25               | <MDL 0.2      | 900.00 | No                    | No      |
| 2,4-Dichlorophenoxy acetic acid (2,4-D) (ug/L) - TW | 2021/01/25               | <MDL 10.0     | 100.00 | No                    | No      |
| Diclofop-methyl (ug/L) - TW                         | 2021/01/25               | <MDL 0.9      | 9.00   | No                    | No      |
| Dimethoate (ug/L) - TW                              | 2021/01/25               | <MDL 1.0      | 20.00  | No                    | No      |
| Diquat (ug/L) - TW                                  | 2021/01/25               | <MDL 5.0      | 70.00  | No                    | No      |
| Diuron (ug/L) - TW                                  | 2021/01/25               | <MDL 5.0      | 150.00 | No                    | No      |
| Glyphosate (ug/L) - TW                              | 2021/01/25               | <MDL 25.0     | 280.00 | No                    | No      |
| Malathion (ug/L) - TW                               | 2021/01/25               | <MDL 5.0      | 190.00 | No                    | No      |
| 2-Methyl-4chlorophenoxyacetic Acid (MCPA)           | 2021/01/25               | <MDL 10.0     | 100    | No                    | No      |

|   | Sample Date<br>(yyyy/mm/dd) | Sample Result | MAC    | Number of Exceedances |         |
|---|-----------------------------|---------------|--------|-----------------------|---------|
|   |                             |               |        | MAC                   | 1/2 MAC |
| Metolachlor (ug/L) - TW                           | 2021/01/25                  | <MDL 3.0      | 50.00  | No                    | No      |
| Metribuzin (ug/L) - TW                            | 2021/01/25                  | <MDL 3.0      | 80.00  | No                    | No      |
| Paraquat (ug/L) - TW                              | 2021/01/25                  | <MDL 1.0      | 10.00  | No                    | No      |
| PCB (ug/L) - TW                                   | 2021/01/25                  | <MDL 0.05     | 3.00   | No                    | No      |
| Pentachlorophenol (ug/L) - TW                     | 2021/01/25                  | <MDL 0.2      | 60.00  | No                    | No      |
| Phorate (ug/L) - TW                               | 2021/01/25                  | <MDL 0.3      | 2.00   | No                    | No      |
| Picloram (ug/L) - TW                              | 2021/01/25                  | <MDL 15.0     | 190.00 | No                    | No      |
| Prometryne (ug/L) - TW                            | 2021/01/25                  | <MDL 0.1      | 1.00   | No                    | No      |
| Simazine (ug/L) - TW                              | 2021/01/25                  | <MDL 0.5      | 10.00  | No                    | No      |
| Terbufos (ug/L) - TW                              | 2021/01/25                  | <MDL 0.5      | 1.00   | No                    | No      |
| Tetrachloroethylene (ug/L) - TW                   | 2021/01/25                  | <MDL 0.5      | 10.00  | No                    | No      |
| 2,3,4,6-Tetrachlorophenol (ug/L) - TW             | 2021/01/25                  | <MDL 0.2      | 100.00 | No                    | No      |
| Triallate (ug/L) - TW                             | 2021/01/25                  | <MDL 10.0     | 230.00 | No                    | No      |
| Trichloroethylene (ug/L) - TW                     | 2021/01/25                  | <MDL 0.5      | 5.00   | No                    | No      |
| 2,4,6-Trichlorophenol (ug/L) - TW                 | 2021/01/25                  | <MDL 0.2      | 5.00   | No                    | No      |
| Trifluralin (ug/L) - TW                           | 2021/01/25                  | <MDL 0.5      | 45.00  | No                    | No      |
| Vinyl Chloride (ug/L) - TW                        | 2021/01/25                  | <MDL 0.2      | 1.00   | No                    | No      |
| Distribution Water                                |                             |               |        |                       |         |
| Trihalomethane: Total (ug/L) Annual Average - DW  | Quarterly                   | 91.4          | 100.00 | No                    | Yes     |
| Haloacetic Acid: Total (ug/L) Annual Average - DW | Quarterly                   | 57.6          | 80.0   | No                    | Yes     |

MAC = Maximum Allowable Concentration as per O.Reg 169/03  
 BDL = Below the laboratory detection level

### Additional Legislated Samples

On February 26, 2021 a new and updated Municipal Drinking Water Licence and Drinking Water Works Permit was renewed (issued). The filter backwash is now required only when discharging to the Mississippi River. The facility is set up to no longer discharge to the Mississippi River instead all residual solids are directed to the sanitary sewers.

### Filter Backwash Effluent

| Legal Document                    | Date of Issuance | Parameter                        | Date Sampled | Result | Unit of measure |
|-----------------------------------|------------------|----------------------------------|--------------|--------|-----------------|
| Municipal Licence 172-101 Issue 3 | February 26 2021 | Suspended Solids (Limit 25 mg/L) | Annual Avg.  | 12.0   | mg/L            |
| Municipal Licence 172-101 Issue 3 | February 26 2021 | Total Chlorine (Limit 0.02 mg/L) | Annual Avg.  | -      | mg/L            |

### Hazardous Algae Bloom (HAB) Sampling

No microcystin samples were required to be collected in 2021.

## Major Maintenance Summary

| WO #    | Description   |
|---------|---|
| 2176750 | Capital Six (6) Actiflo Injector Heads                      |
| 2271296 | Capital Fluoride Flow and Cup Holder                        |
| 2407413 | Capital New Check Valve Replacement for Back Flow Preventer |
| 2501713 | Capital Turbidity Meter Upgrade Raw-Treated                 |
| 2539518 | Capital Fluoride Probe Replacement                          |
| 2539530 | Capital pH Probe Replacement                                |
| 2540881 | Capital Replacement Nozzles for Actiflo Hydro-Cyclones      |
| 2541949 | Capital Replacement Chlorine Gas Monitor Module             |
| 2543599 | Capital Handheld Colour Analyzer                            |
| 2579867 | Capital Chlorine Gas Monitor Module Install and Calibration |
| 2580475 | Capital Fluoride Panel PRV Parts                            |
| 2093778 | Capital Chlorinator Parts and Service                       |
| 2093782 | Capital Service call Filter efficiency report               |
| 2130721 | Capital Emergency Lighting                                  |
| 2131589 | Capital Sewage Pit Alternating Relay                        |
| 2173142 | Capital Fluoride Pump Guard                                 |
| 2177027 | Capital Treated Flow Meter Replacement                      |
| 2225040 | Capital Sump Pump   |
| 2265784 | Capital Replacement Solenoid for Actiflo Raw Water Valves   |
| 2316879 | Capital Sludge Pump P622 Failed to Start                    |
| 2365185 | Capital SCADA Programming                                   |
| 2402739 | Capital pH Probes for Distribution                          |
| 2408279 | Capital SAI Global DWQMS Audit                              |
| 2455053 | Capital Tower Safety Inspection                             |

### Distribution Maintenance

Distribution Highlights were provided by the Town of Carleton Place.

In 2021, 1830 locates have been completed. In 2020 we completed over 1600 locate requests. As Carleton Place continues to grow with more subdivisions being constructed, Public Works staff continue to provide assistance and oversight of infrastructure installations, connections, identifying deficiencies, and occupancy activations.

Staff worked with AECON Construction with the installation of watermain on Miguel Street to loop the watermain, which also included an emergency repair when the existing main was damaged by AECON during the excavation process.

This year, we experienced two significant watermain breaks. The first break was located on Townline Road near McEwen Gas Station and the second was located on High Street. Staff have examined the damaged mains in both cases and unfortunately could not identify the root cause for either watermain break.



Public Works installed an additional fire hydrant on Edmund Street to improve water quality through flushing and provide additional fire protection for the new apartments on Edmund Street and the Carambeck Community Centre.

Staff conducted their annual hydrant flushing program.

---

# Appendix A

## WTRS Data and 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: 1310-9UHPPW  
Permit Holder: THE CORPORATION OF THE TOWN OF CARLETON PLACE.  
Received on: Feb 16, 2022 10:28 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.

[Print Confirmation](#)   [Return to Main Page](#)

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version: v4.5.0.21 (build#: 22)  
Last modified: 2018/09/18

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