

# Monthly Operations Report

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for the Municipality of Casselman's Water and  
Wastewater Systems

March 2022



**Ontario Clean Water Agency**  
**Agence Ontarienne Des Eaux**

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A decorative graphic in the bottom right corner of the page. It features a light blue sun with a semi-circular arc at the top, and three wavy horizontal bands below it, representing water or waves. The colors are a soft, pastel blue.

## SECTION 1 – MONTHLY OPERATIONS REPORT CARD

### Operations and Compliance Reliability Indices

| Legend   |           |         |              |        |                |
|----------|-----------|---------|--------------|--------|----------------|
| ✓        | ●         | ▲       | ✗            | Y/N    | N/A            |
| Achieved | On Target | Caution | Not Achieved | Yes/No | Not Applicable |

|                                     | Target | March 2022 | Comments   |
|-------------------------------------|--------|------------|--|
| <b>Health &amp; Safety</b>          |        |            |  |
| Number of Incidents                 | 0      | ●          |  |
| <i>Actual Result</i>                |        | 0          |  |
| <b>Drinking Water</b>               |        |            |  |
| Inspection Ratings (YTD)            | 100 %  | N/A        |  |
| <i>Actual Result</i>                |        | N/A        |  |
| AWQI's                              | 0      | ●          |  |
| <i>Actual Result</i>                |        | 0          |  |
| Number of Non-Compliances           | 0      | ●          |  |
| <i>Actual Result</i>                |        | 0          |  |
| Number of Water Main Breaks         | 0      | ●          |  |
| <i>Actual Result</i>                |        | 0          |  |
| Number of Complaints                | 0      | ●          |  |
| <i>Actual Result</i>                |        | 0          |  |
| Water Main Flushing                 | N/A    | N/A        |  |
| <i>Target Achieved</i>              |        | N/A        |  |
| <b>Wastewater</b>                   |        |            |  |
| Number of Non-Compliances           | 0      | ✗          | Effluent E. Coli non-compliance reported for March |
| <i>Actual Result</i>                |        | 1          |  |
| Number of Bypasses                  | 0      | ●          |  |
| <i>Actual Result</i>                |        | 0          |  |
| Number of Sanitary Sewer Back-ups   | 0      | ●          |  |
| <i>Actual Result</i>                |        | 0          |  |
| Sanitary Collection System Flushing | N/A    | N/A        |  |
| <i>Target Achieved</i>              |        | N/A        |  |
| <b>Preventive Maintenance</b>       |        |            |  |
| Work Orders Completed               | >95%   | ●          |  |
| <i>Target Achieved</i>              |        | Y          |  |

## SECTION 2 – FACILITY LISTING

### Water Treatment & Distribution

| Facility                                   | Type   |
|--|--|
| 5971 - Casselman Water Treatment Plant     | 1 WTP (Actiflo Process)                              |
| 1553 - Casselman Water Distribution System | 1 Water Storage Tower +<br>Water Distribution System |

### Wastewater Treatment & Collection

| Facility                                      | Type  |
|---|---|
| 1501 - Casselman Wastewater Treatment Plant   | 3 Facultative Lagoon Cells<br>1 MBBR (Moving Bed Biofilm Reactor) |
| 5976 - Casselman Wastewater Collection System | 6 Sewage Pumping Stations +<br>Wastewater Collection System       |

## SECTION 3 – COMPLIANCE

There were no compliance issues to report for Casselman’s Drinking Water System.

One non-compliance was reported for the wastewater treatment system:

| Parameter                  | ECA Limit                                  | Reporting Period | Corrective Action                                    | Status   |
|----------------------------|--|------------------|--|----------|
| <i>E. coli</i> in effluent | 200 cfu/100 mL<br>(monthly geometric mean) | March 2022       | Treatment upgrade was not designed for disinfection. | Complete |

*For details, please refer to the non-compliance notification submitted to MECP, attached in Appendix D.*

The most recent MECP inspections are listed below:

| Location         | Inspector   | Inspection Rating (%) | Date           |
|------------------|---|-----------------------|----------------|
| Casselman Water  | Jean-Francois Durocher  | 100                   | March 10, 2022 |
| Casselman Sewage | <i>*OCWA has no recent sewage system inspections on file.</i> |                       |                |

There are no outstanding actions required from any recent MECP inspections.

## **SECTION 4 – FACILITY PERFORMANCE**

Please see the Water & Wastewater Performance Assessment Reports attached in Appendix A.

## **SECTION 5 – DRINKING WATER QUALITY MANAGEMENT SYSTEM (DWQMS)**

OCWA received accreditation for Casselman’s Drinking Water System in August 2019.

The 2021 Surveillance Audit was conducted by SAI Global on July 23, 2021. There were no non-conformances identified. One Opportunity for Improvement (OFI) was noted in the report for Element 19 regarding the timing of the annual internal audit, suggesting that it be completed prior to the external audit in each year.

## **SECTION 6 - MAINTENANCE / CAPITAL / ADDED VALUE**

### Water Treatment & Distribution

- Responded to eleven call-in alarms

### Wastewater Treatment & Collection

- Responded to seven call-in alarms

### Preventive Maintenance Plan (PMP) Work Order Summary

All required work orders were completed. Please refer to the summary reports attached in Appendix B.

Equipment in the wastewater treatment and collection system needs to be tagged and work orders created in order to complete the PMP. This work is expected to be complete by the end of the summer.

## **SECTION 7 – COMPLAINTS**

| <b>Facility</b> | <b>Date</b> | <b>Description</b>   |
|-----------------|-------------|--|
| Sewage Lagoon   | March 23    | On March 19-20 high winds blew foam from the MBBR onto private property. Reduced MBBR aeration to reduce foaming. Resident will call back if the issue occurs again. |

## **SECTION 8 – RECOMMENDATIONS / GENERAL COMMENTS**

### General

- 53 locates complete in March
- OCWA is working on a water and wastewater capacity assessment for the Municipality.

### Water Treatment & Distribution

- Due to Covid-19, staff practiced social distancing and took extra precautions disinfecting common areas on a daily basis and limited access to outside contractors.

### Wastewater Treatment & Collection

- Substantial completion for the MBBR system has not yet been reached. Performance test at full hydraulic capacity to take place in April.
- Wastewater sampling as part of Queen’s University’s Covid sampling program continued in March.

# Appendix A

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## Performance Assessment Reports



## ONTARIO CLEAN WATER AGENCY PERFORMANCE ASSESSMENT REPORT

**MUNICIPALITY:** MUNICIPALITY OF CASSELMAN  
**PROJECT:** CASSELMAN DRINKING WATER SYSTEM  
**DESCRIPTION:** SURFACE WATER TREATMENT PLANT  
CHEMICALLY ASSISTED FILTRATION

**YEAR:** 2022  
**WATER SOURCE:** NATION RIVER  
**DESIGN CAPACITY:** 3182 m3/d  
**WORKS NUM.:** 210001219

| MONTH    | SYSTEM FLOWS (TREATED)       |                             |                                | TREATED                                 |  | DISTRIBUTION                               |  | RAW                             |                             |                       |                          |                      | TREATED                         |                             |                       |                          |                      | DISTRIBUTION        |                     |
|----------|------------------------------|-----------------------------|--------------------------------|---|--|--|--|---------------------------------|-----------------------------|-----------------------|--------------------------|----------------------|---------------------------------|-----------------------------|-----------------------|--------------------------|----------------------|---------------------|---------------------|
|          | Total Flow (m <sup>3</sup> ) | Avg. Flow (m <sup>3</sup> ) | Max Day Flow (m <sup>3</sup> ) | Min. Free Cl <sub>2</sub> Resid. (mg/L) | Max Free Cl <sub>2</sub> Resid. (mg/L) | Min Combined Cl <sub>2</sub> Resid. (mg/L) | Max Combined Cl <sub>2</sub> Resid. (mg/L) | Dissolved Organic Carbon (mg/L) | Total Organic Carbon (mg/L) | Total Hardness (mg/L) | Average Manganese (mg/L) | Max Manganese (mg/L) | Dissolved Organic Carbon (mg/L) | Total Organic Carbon (mg/L) | Total Hardness (mg/L) | Average Manganese (mg/L) | Max Manganese (mg/L) | THM (µg/L) quaterly | HAA (µg/L) quaterly |
| JAN      | 30632                        | 988                         | 1389                           | 0.96                                    | 2.60                                   | 1.08                                       | 2.48                                       | 6.00                            | 6.00                        | 398.00                | 0.10                     | 0.12                 | 3.30                            | 3.30                        | 401.00                | 0.09                     | 0.72                 | 58.00               | 41.30               |
| FEB      | 28433                        | 1015                        | 1367                           | 0.78                                    | 2.60                                   | 1.06                                       | 2.37                                       | 3.60                            | 4.70                        | 478.00                | 0.18                     | 0.90                 | 2.00                            | 2.50                        | 480.00                | 0.08                     | 0.14                 | -                   | -                   |
| MAR      | 31167                        | 1005                        | 1296                           | 1.32                                    | 2.70                                   | 0.50                                       | 2.61                                       | 7.30                            | 9.70                        | 138.00                | 0.17                     | 0.72                 | 3.70                            | 4.20                        | 287.00                | 0.12                     | 0.58                 | -                   | -                   |
| APR      |                              |                             |                                |   |  |  |  |                                 |                             |                       |                          |                      |                                 |                             |                       |                          |                      |                     |                     |
| MAY      |                              |                             |                                |   |  |  |  |                                 |                             |                       |                          |                      |                                 |                             |                       |                          |                      |                     |                     |
| JUN      |                              |                             |                                |   |  |  |  |                                 |                             |                       |                          |                      |                                 |                             |                       |                          |                      |                     |                     |
| JUL      |                              |                             |                                |   |  |  |  |                                 |                             |                       |                          |                      |                                 |                             |                       |                          |                      |                     |                     |
| AUG      |                              |                             |                                |   |  |  |  |                                 |                             |                       |                          |                      |                                 |                             |                       |                          |                      |                     |                     |
| SEP      |                              |                             |                                |   |  |  |  |                                 |                             |                       |                          |                      |                                 |                             |                       |                          |                      |                     |                     |
| OCT      |                              |                             |                                |   |  |  |  |                                 |                             |                       |                          |                      |                                 |                             |                       |                          |                      |                     |                     |
| NOV      |                              |                             |                                |   |  |  |  |                                 |                             |                       |                          |                      |                                 |                             |                       |                          |                      |                     |                     |
| DEC      |                              |                             |                                |   |  |  |  |                                 |                             |                       |                          |                      |                                 |                             |                       |                          |                      |                     |                     |
| TOTAL    | 90,232                       |                             |                                |   |  |  |  |                                 |                             |                       |                          |                      |                                 |                             |                       |                          |                      |                     |                     |
| AVG      |                              | 1,003                       |                                |   |  |  |  | 5.63                            | 6.80                        | 338.00                | 0.15                     |                      | 3.00                            | 3.33                        | 389.33                | 0.10                     |                      | 58.00               | 41.30               |
| MAX      |                              |                             | 1,389                          |   | 2.70                                   |  | 2.61                                       |                                 |                             |                       |                          | 0.90                 |                                 |                             |                       |                          | 0.72                 |                     |                     |
| MIN      |                              |                             |                                | 0.78                                    |  | 0.50                                       |  |                                 |                             |                       |                          |                      |                                 |                             |                       |                          |                      |                     |                     |
| CRITERIA |                              |                             | <b>3,182</b>                   | <b>CT</b>                               |  | <b>0.25</b>                                | <b>3.00</b>                                |                                 |                             |                       |                          |                      |                                 |                             |                       |                          |                      | <b>&lt;100</b>      | <b>&lt;80</b>       |

| MONTH    | SYSTEM FLOWS (RAW)           |                                 |                             | ACTIFLO FILTER #1    |                      | ACTIFLO FILTER #2    |                      | Efficiency            | FILTER             | TREATED              |                      |  | E. coli / Total Coliform / HPC (Number of Samples Collected) |              |         |              | RAW WATER  |            |  |
|----------|------------------------------|---------------------------------|-----------------------------|----------------------|----------------------|----------------------|----------------------|-----------------------|--------------------|----------------------|----------------------|--|--|--------------|---------|--------------|------------|------------|--|
|          | Total Flow (m <sup>3</sup> ) | Avg. Day Flow (m <sup>3</sup> ) | Max. Flow (m <sup>3</sup> ) | Avg. Turbidity (NTU) | Max. Turbidity (NTU) | Avg. Turbidity (NTU) | Max. Turbidity (NTU) | Turbidity % < 0.3 NTU | Backwash SS (mg/L) | Avg. Turbidity (NTU) | Max. Turbidity (NTU) | Min UV Intensity (mJ/cm <sup>2</sup> ) | Safe   |              | Adverse |              | Max. Count | Max. Count |  |
|          |                              |                                 |                             |                      |                      |                      |                      |                       |                    |                      |                      |  | Treated  | Distribution | Treated | Distribution |            |            |  |
| JAN      | 38152                        | 1231                            | 1618                        | 0.07                 | 0.38                 | 0.35                 | 0.80                 | 99.97                 | <3                 | 0.37                 | 0.60                 | 61.00                                  | 5  | 15           | 0       | 0            | 140        | 38         |  |
| FEB      | 34681                        | 1239                            | 1686                        | 0.08                 | 0.24                 | 0.06                 | 0.69                 | 99.93                 | 7                  | 0.61                 | 0.98                 | 70.00                                  | 4  | 12           | 0       | 0            | 17600      | 117        |  |
| MAR      | 37198                        | 1200                            | 1546                        | 0.11                 | 0.39                 | 0.07                 | 0.78                 | 99.85                 | 3                  | 0.53                 | 0.94                 | 67.00                                  | 4  | 12           | 0       | 0            | 180        | 51         |  |
| APR      |                              |                                 |                             |                      |                      |                      |                      |                       |                    |                      |                      |  |  |              |         |              |            |            |  |
| MAY      |                              |                                 |                             |                      |                      |                      |                      |                       |                    |                      |                      |  |  |              |         |              |            |            |  |
| JUN      |                              |                                 |                             |                      |                      |                      |                      |                       |                    |                      |                      |  |  |              |         |              |            |            |  |
| JUL      |                              |                                 |                             |                      |                      |                      |                      |                       |                    |                      |                      |  |  |              |         |              |            |            |  |
| AUG      |                              |                                 |                             |                      |                      |                      |                      |                       |                    |                      |                      |  |  |              |         |              |            |            |  |
| SEP      |                              |                                 |                             |                      |                      |                      |                      |                       |                    |                      |                      |  |  |              |         |              |            |            |  |
| OCT      |                              |                                 |                             |                      |                      |                      |                      |                       |                    |                      |                      |  |  |              |         |              |            |            |  |
| NOV      |                              |                                 |                             |                      |                      |                      |                      |                       |                    |                      |                      |  |  |              |         |              |            |            |  |
| DEC      |                              |                                 |                             |                      |                      |                      |                      |                       |                    |                      |                      |  |  |              |         |              |            |            |  |
| TOTAL    | 110,032                      |                                 |                             |                      |                      |                      |                      |                       |                    |                      |                      |  | 13   | 39           | 0       | 0            |            |            |  |
| AVG      |                              | 1,223                           |                             | 0.09                 |                      | 0.16                 |                      | 99.92                 | 3.8                | 0.50                 |                      |  |  |              |         |              |            |            |  |
| MAX      |                              |                                 | 1,686                       |                      | 0.39                 |                      | 0.80                 |                       | 7                  |                      | 0.98                 |  |  |              |         |              | 17600      | 117        |  |
| MIN      |                              |                                 |                             |                      |                      |                      |                      |                       |                    |                      |                      | 61.00                                  |  |              |         |              |            |            |  |
| CRITERIA |                              |                                 | <b>3,182</b>                |                      | <b>&lt;1</b>         |                      | <b>&lt;1</b>         | <b>&gt;95%</b>        |                    |                      | <b>&lt;5</b>         | <b>&gt;40</b>                          |  |              |         |              |            |            |  |

COMMENTS:





# Appendix B

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## Work Order Summary Reports



## Monthly Work Order Summary – March 2022

### Casselman Drinking Water System

| Description  | Status  | Work Type |
|--|---------|-----------|
| Analyzer Total Chlorine Inspection/Service (1m) 5971                     | COMP    | PM        |
| Analyzer pH Inspection/Service (1m) 5971                                 | COMP    | PM        |
| Analyzer Turbidity Inspection/Service (1m) 5971                          | COMP    | PM        |
| Drive VFD Inspection (6m) 5971   | APPR    | PM        |
| Blower Centrifugal Inspection/Service (1m) 5971                          | COMP    | PM        |
| Air Compressor Inspection/Service (1m) 5971                              | COMP    | PM        |
| Dryer Air Service (1m) - 5971  | COMP    | PM        |
| Generator Inspection (1m) 5971   | COMP    | PM        |
| Mixer Chemical Inspection (3m) 5971                                      | APPR    | PM        |
| PANEL ALARM/DIALER TEST (1m) - 5971                                      | COMP    | PM        |
| Relief Valve UV Room Inspection (3m) 5971                                | APPR    | OPER      |
| Transformer Air Service (3y) - 5971                                      | APPR    | PM        |
| UV Light Bank Insp/Service (1m) - 5971                                   | BUSCOMP | PM        |
| Workplace Inspection (1m) - 5971   | COMP    | PM        |
| Monthly H&S Equipment Check (1m) - 5971                                  | COMP    | PM        |
| UVT Sensor Checks/Calibration (1m) - 5971                                | COMP    | PM        |
| Pump Diaphragm Coagulant Route Inspection/Service (1m) 5971              | COMP    | PM        |
| Pump Diaphragm Polymer Route Inspection/Service (1m) 5971                | COMP    | PM        |
| Pump Diaphragm Sodium Hydroxide Route Inspection/Service (1m) 5971       | COMP    | PM        |
| Pump Diaphragm Ammonium Sulphate Route Inspection/Service (1m) 5971      | COMP    | PM        |
| Pump Diaphragm Potassium Permanganate Route Inspection/Service (1m) 5971 | COMP    | PM        |
| Analyzer Turbidity Inspection/Service (1m) 1501                          | COMP    | PM        |
| ci 20h for actiflow2 high ntu actiflow 1 BW failed 5971                  | COMP    | CALL      |
| ci at 12h for actiflow1 high ntu due to BW on actiflow 2 5971            | COMP    | CALL      |
| CM05 Casselman MECP Inspection, 5971                                     | COMP    | OPER      |
| Casselman Water Plant 5971- PH probe replacement                         | APPR    | CAP       |
| High free/Low combined at ps#1   | COMP    | CALL      |
| High cl2 free on combined.   | COMP    | CALL      |
| Annual Risk Assessment (1y) - 5971                                       | APPR    | PM        |
| UV Sensor Reference Check/Calibration (1m) - 5971                        | COMP    | PM        |
| CI 11:00-13:00 High Free Cl2 alarm 5971                                  | COMP    | CALL      |
| CI 16:15-18:00 Actiflo #1 and #2 High Settle NTU 5971                    | COMP    | CALL      |
| CI 8:00-9:30 High level backwash tank 5971                               | COMP    | CALL      |
| CI 14:45-16:00 Actiflo #2 Recirculating pump low pressure 5971           | BUSCOMP | CALL      |
| CI 15:00-17:00 Actiflo #2 Pre-filtration fault 5971                      | BUSCOMP | CALL      |
| Casselman 5971 lab supplies  | APPR    | OPER      |
| CI @ 20:30 UV Transmittance CASS WTP, 5971                               | COMP    | CALL      |
| Casselman 5971 Water Testing Equipment                                   | APPR    | CAP       |
| CI @ 19:45 Waste Process Alarm CASS WTP 5971                             | COMP    | CALL      |

**Monthly Work Order Summary – March 2022**  
**Casselman Wastewater Treatment & Collection System**

| Description   | Status | Work Type |
|---|--------|-----------|
| Generator Inspection (1m) 1501                                  | COMP   | PM        |
| Analyzer Turbidity Inspection/Service (1m) 1501                 | COMP   | PM        |
| CI 13:00-14:00 Alum bld Multismart PLC communication fault 1501 | COMP   | CALL      |
| CI 4:30-6:00 SPS #2,#5 and #6 communication fault 1501          | COMP   | CALL      |
| CI @ 23:45 Comm failure Cass WWTP, 1501                         | COMP   | CALL      |
| CI@ 5:40 Communication Alarm, CASS WWTP 1501                    | COMP   | CALL      |
| CI @ 00:40 Alum Bldg comm fail, CASS WWTP, 1501                 | COMP   | CALL      |
| CI @ 5:00 Communication fail SPS #5, CASS sewage 1501           | COMP   | CALL      |
| Casselman sewage alumbldg multismart plc comm failed 1501       | COMP   | CALL      |

# Appendix C

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## Locate Summary



## Casselman Monthly Locate Summary – March 2022

| Description  | Status | Work Type |
|--|--------|-----------|
| Locate Casselman WDS 1553 - Conservation 20220910525               | COMP   | OPER      |
| Locate Casselman WDS 1553 - 27 Sarah2022099598                     | COMP   | OPER      |
| Locate Casselman WDS 1553 - 5 Sarah 2022099550                     | COMP   | OPER      |
| Locate Casselman WDS 1553 -823 Princip 2022101942                  | COMP   | OPER      |
| Locate Casselman WDS 1553 -Sarah st 2022101970                     | COMP   | OPER      |
| Locate Casselman WDS 1553 -901 Principale 2022109459               | COMP   | OPER      |
| Locate Casselman WDS 1553 -626 Principale 20221013458              | COMP   | OPER      |
| Locate Casselman WDS 1553 -626 Principale 20221013634              | COMP   | OPER      |
| Locate Casselman WDS 1553 -821 Principale 2022110108               | COMP   | OPER      |
| Locate Casselman WDS 1553 -137 Argile 2022112809                   | COMP   | OPER      |
| Locate Casselman WDS 1553 -541 Barrage 2022114208                  | COMP   | OPER      |
| Locate Casselman WDS 1553 -25-29 Sarah 2022115185                  | COMP   | OPER      |
| Locate Casselman WDS 1553 -Conservation st 2022111679              | COMP   | OPER      |
| Locate Casselman WDS 1553 -145 Argile 2022103112                   | COMP   | OPER      |
| Locate Casselman WDS 1553 - 145 Argile St 2022129398               | COMP   | OPER      |
| Locate Casselman WDS 1553 - Principale St (County Rd 3) 2022129366 | COMP   | OPER      |
| Locate Casselman WDS 1553 - 1 Industrial St 20221218422            | COMP   | OPER      |
| Locate Casselman WDS 1553 - 529 and 533 Barrage St 20221219869     | COMP   | OPER      |
| Locate Casselman WDS 1553 - 512 Barrage St 20221219861             | COMP   | OPER      |
| Locate Casselman WDS 1553 - 20221219857 504 Barrage St             | COMP   | OPER      |
| Locate Casselman WDS 1553 - 20221219842 508 Barrage St.            | COMP   | OPER      |
| Locate Casselman WDS 1553 - 20221219834 517 Barrage St             | COMP   | OPER      |
| Locate Casselman WDS 1553 - 20221219822 521 and 525 Barrage St     | COMP   | OPER      |
| Locate Casselman WDS 1553 - 20221217547 Conservation St locate     | COMP   | OPER      |
| Locate Casselman WDS 1553 - 20221217591 Conservation St            | COMP   | OPER      |
| Locate Casselman WDS 1553 - 2022122449 745 Brebeuf St.             | COMP   | OPER      |
| Locate Casselman WDS 1553 - 2022125184 76 Laurier St.              | COMP   | OPER      |
| Locate Casselman WDS 1553 - 2022125200 150 Laurier St              | COMP   | OPER      |

## Casselman Monthly Locate Summary – March 2022

|   |      |      |
|---|------|------|
| Locate Casselman WDS 1553 - 2022125226 738 St. Jean st              | COMP | OPER |
| Locate Casselman WDS 1553 - 20221216093 823 Principale St           | COMP | OPER |
| Locate Casselman WDS 1553 - 20221216195 9 to 13 Sarah St.           | COMP | OPER |
| Locate Casselman WDS 1553 - 20221218250 686 Dollard St.             | COMP | OPER |
| Locate Casselman WDS 1553 - 20221219566 722 St. Joseph              | COMP | OPER |
| Locate Casselman WDS 1553 - 2022135704 529 and 533 Barrage St       | COMP | OPER |
| Locate Casselman WDS 1553 - 20221310982 529 Barrage St              | COMP | OPER |
| Locate Casselman WDS 1553 - 20221219546 721 St. Joseph              | COMP | OPER |
| Locate Casselman WDS 1553 - 2022135839 750 St Jean                  | COMP | OPER |
| Locate Casselman WDS 1553 - 2022131345 758 Brebeuf                  | COMP | OPER |
| Locate Casselman WDS 1553 - 20221318338 688 St. Isidore             | COMP | OPER |
| Locate Casselman WDS 1553 - 2022135781 317 to 325 Dore St           | COMP | OPER |
| Locate Casselman WDS 1553 - 2022137857 300 to 308 Dore St           | COMP | OPER |
| Locate Casselman WDS 1553 - 2022137787 401 Dore St.                 | COMP | OPER |
| Locate Casselman WDS 1553 - 20221313745 9 Vanessa                   | COMP | OPER |
| Locate Casselman WDS 1553 - 20221320459 HWY 417                     | COMP | OPER |
| Locate Casselman WDS 1553 - 20221317714 HWY 417                     | COMP | OPER |
| Locate Casselman WDS 1553 - 20221320617 HWY 417                     | COMP | OPER |
| Locate Casselman WDS 1553 - 20221320579 HWY 417                     | COMP | OPER |
| Locate Casselman WDS 1553 - 2022144121 136 Argile St.               | COMP | OPER |
| Locate Casselman WDS 1553 - 2022144157 144 Argile St.               | COMP | OPER |
| Locate Casselman WDS 1553 - 20221317949 823 and 821 Principale st.  | COMP | OPER |
| Locate Casselman WDS 1553 - 20221415468 536 Barrage St.             | COMP | OPER |
| Locate Casselman WDS 1553 - 2022140813 329 Dore St.                 | COMP | OPER |
| Locate Casselman WDS 1553 - 2022129366 Principale St. and Sarah St. | COMP | OPER |
| Total   |      | 53   |

# Appendix D

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## Non-Compliance Notification to MECP





April 13, 2022

**Jean-Francois Durocher**

Senior Environmental Officer  
 Ministry of the Environment, Conservation and Parks  
 Cornwall Area Office  
 (613) 363-5149  
[Jean-francois.durocher@ontario.ca](mailto:Jean-francois.durocher@ontario.ca)

**Subject: Casselman Lagoon – Notification of Non-Compliance**

This letter provides written notification of non-compliance with the effluent limit for *E. coli* outlined in Condition 6(1) of ECA #8160-BAHPRF. This letter confirms the verbal notification of non-compliance provided by OCWA to the Ontario Ministry of the Environment, Conservation and Park’s Spills Action Centre on April 13, 2022 (Reference #2487-CDFPU5).

The following effluent parameter was exceeded:

| Parameter      | Date       | Type of Limit          | Type of Sample | Result (cfu/100mL) | ECA Limit (cfu/100mL) |
|----------------|------------|------------------------|----------------|--------------------|-----------------------|
| <i>E. coli</i> | March 2022 | Monthly Geometric Mean | Grab           | 600                | 200                   |

Effluent samples collected during the month of March contained 400 cfu/100 mL and 900 cfu/100 mL of *E. Coli*. Only two samples were collected in March as no discharge occurred between March 5<sup>th</sup> and 17<sup>th</sup> while the effluent was being recirculated through the treatment system. Samples of influent to the MBBR were also collected in March. The results demonstrate that *E. coli* is reduced as wastewater moves through the treatment process, however the effluent results still exceeded the limit prescribed in the ECA. The Casselman lagoon and MBBR treatment system was not designed with a disinfection capability, and therefore, cannot completely eliminate *E. coli* in the final effluent.

All other effluent parameters analyzed in March were within compliance

If you have any questions or concerns, please do not hesitate to contact me at (613) 448-3098.



Ontario Clean Water Agency  
5 Industrial Dr.  
Chesterville ON K0C 1H0  
Phone: 613-448-3098  
Fax: 613-448-1616

Sincerely,

A handwritten signature in black ink that reads "Lamarche". The signature is written in a cursive, flowing style.

Caroline Lamarche  
Process & Compliance Technician  
OCWA, Nation Valley Cluster

Cc: Pierre-Paul Beauchamp, Director of Public Works, Municipality of Casselman  
Dawn Crump, Senior Operations Manager, OCWA  
Stephane Barbarie, Safety, Process and Compliance Manager (A), OCWA