

# Monthly Operations Report

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for the Municipality of Casselman's Water and  
Wastewater Systems

May 2025



**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 semi-circle representing a sun or moon, with three wavy lines below it representing water or waves. The graphic is composed of solid light blue shapes.

## 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	Current Month	Comments
<b>Health &amp; Safety</b>			
Number of Incidents	0	●	
<i>Actual Result</i>		0	
<b>Drinking Water</b>			
Inspection Ratings (YTD)	100 %	●	
<i>Actual Result</i>		100 %	
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	Y	●	
<i>Target Achieved</i>		Y	
<b>Wastewater</b>			
Number of Non-Compliances	0	●	
<i>Actual Result</i>		0	
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	0	●	
<i>Target Achieved</i>		Y	
<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 + Water Distribution System

### Wastewater Treatment & Collection

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

## SECTION 3 – COMPLIANCE

There were no compliance issues to report for Casselman's water and wastewater treatment systems.

The most recent MECP inspections are listed below:

Location	Inspector	Inspection Rating (%)	Date
Casselman Water	Jean-Francois Durocher	100%	February 5, 2025
Casselman Sewage	Jean-Francois Durocher	Rating not applicable	November 19, 2024

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 was re-accredited as the Operating Authority for Casselman's Drinking Water System on January 24, 2023.

## SECTION 6 - MAINTENANCE / CAPITAL / ADDED VALUE

### Water Treatment & Distribution

- Responded to two after-hours call-in alarms
- Spring distribution system flushing was completed in May
- Capital Controls continued working on SCADA upgrades at the WTP
- Repaired Hydrant #96 (splash pad)
- Verified operation of differential transmitters on Actiflos
- Repaired main valve on Alice St.
- Replaced air blow off valves on Low Lift #2 & #3 and Transfer Pump #3
- Rebuilt Hydrant #'s 90, 91, 93, 100 & 110

### Wastewater Treatment & Collection

- Responded to three after-hours call-in alarms
- Lagoon discharge continued ended May 15<sup>th</sup>
- MBBR placed in summer mode to recirculate until the next discharge period

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

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

## SECTION 7 – COMPLAINTS

Facility	Date	Description
		None to report

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

### General

- 34 locates were completed in May.

### Water Treatment & Distribution

- Capital/Major Maintenance projects approved for 2025 are underway.
- Operations staff continued to work with Dr. Dallala and EVB on behalf of the Municipality.

### Wastewater Treatment & Collection

- Capital/Major Maintenance projects approved for 2025 are underway.

# Appendix A

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## Performance Assessment Reports







**ONTARIO CLEAN WATER AGENCY  
PERFORMANCE ASSESSMENT REPORT**

OWNER: **MUNICIPALITY OF CASSELMAN**  
 PROJECT: **CASSELMAN WASTEWATER TREATMENT SYSTEM**  
 ECA NUM.: **8160-BAHPRF**  
 DESCRIPTION: **MOVING BED BIOLOGICAL REACTOR (MBBR) TREATMENT LAGOON**

YEAR: **2025**  
 WATER COURSE: **NATION RIVER**  
 DESIGN CAPACITY: **2,110 m<sup>3</sup>/d**  
 FACILITY WORKS#: **110002201**

MONTH	RAW								EFFLUENT										
	Total Flow m <sup>3</sup>	Avg Day Flow m <sup>3</sup>	Max Day Flow m <sup>3</sup> /d	Avg Alum Dosage (mg/L)	Avg Raw BOD5 (mg/L)	Avg Raw TSS (mg/L)	Avg. Raw TKN (mg/L)	Avg Raw TP (mg/L)	Effluent Flow m <sup>3</sup>	Effluent Avg Flow m <sup>3</sup>	Effluent Max Flow m <sup>3</sup> /d	Avg CBOD5 (mg/L)	Avg TSS (mg/L)	Avg TAN (mg/L)	Avg TP (mg/L)	Avg TKN (mg/L)	Avg Nitrate (mg/L)	Avg Nitrite (mg/L)	E. coli (cfu/100 mL)
JAN	43,311	1,397	1,703	74.04	186	272	55.7	6.07	80,565	2,576	2,781	3.5	8.0	7.9	0.33	11.75	9.17	0.05	229
FEB	30,948	1,105	1,158	41.63	241	400	80.2	7.17	65,879	2,623	3,982	4.3	8.8	20.4	0.50	27.97	11.88	0.31	563
MAR	55,988	1,806	3,505	52.85	317	540	73.6	7.40	72,630	2,343	3,650	4.0	6.8	11.46	0.56	13.9	21.6	0.31	78
APR	176,684	5,889	6,938	60.28	157	444	27.7	3.27	176,048	5,896	6,938	3.0	11.0	2.55	0.34	4.4	17.7	0.08	27
MAY	45,289	1,461	1,728	39.33	194	266	41.6	4.49	59,936	4,281	5,422	4.0	8.5	0.28	0.30	2.0	16.2	0.05	53
JUN																			
JUL																			
AUG																			
SEPT																			
OCT																			
NOV																			
DEC																			
TOTAL	352,220								455,058										
AVG		2,332		54	219	384	56	5.68		3,544		3.8	8.6	8.5	0.41	12.0	15.3	0.16	107
MAX			6,938		317	540	80	7.40			6,938	4.3	11.0	20.4	0.56	28.0	21.6	0.31	563
CRITERIA						Fall Discharge			267,650	2,909									
						Winter/Spring Dircharge			502,500	3,722	5,000								

COMPLIANCE											NO								
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MONTH	UPSTREAM*				DOWNSTREAM**			
	Avg CBOD5 (mg/L)	Avg TSS (mg/L)	Avg TAN (mg/L)	Avg PHOS. (mg/L)	Avg CBOD5 (mg/L)	Avg TSS (mg/L)	Avg TAN (mg/L)	Avg PHOS. (mg/L)
JAN	3.0	6.0	0.12	0.04				
FEB	3.0	6.0	0.14	0.06				
MAR	3.0	32.3	0.1	0.1	3.0			
APR	3.0	34.8	0.13	0.12	3.00	154.0	0.31	0.16
MAY	3.0	5.0	0.06	0.05	3.0	10.5	0.26	0.06
JUN								
JUL								
AUG								
SEPT								
OCT								
NOV								
DEC								
TOTAL								
AVG	3.0	17	0.12	0.08	3.0	82.3	0.29	0.11
MAX	3	34.8	0.14	0.12	3.0	154	0.31	0.16
CRITERIA								

Comments:

## Appendix B

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### Work Order Summary Reports



## Monthly Work Order Summary – May 2025

### Casselman Drinking Water System

Description	Status	Work Type
5971-WTCA-P - Phone line down - No Alarm Systems Alarms	COMP	CALL
5971-02 Casselman Electrical/Instrumentation Upgrades-MM - Repair VFD Spare	APPR	CAP
5971-WTCA-P - Capital Controls - Verification of Actiflo Pressure Differential	COMP	CAP
5971-01 Casselman Emergency Repairs-MM- Roof repair and caulking. New header	COMP	CAP
5971-02 Electrical/Instrumentation Upgrades-MM - New thermostats	COMP	CAP
Workplace Inspection - DS Silica- 1m - 5971	COMP	OPER
MDWL Renewal (5y) - 5971 Casselman WT	APPR	OPER
Grating Insp (1y) - 5971, Casselman Distribution	APPR	OPER
Grating Insp (1y) - 5971, Casselman WTP	COMP	OPER
Analyzer Total Chlorine Inspection/Service (1m) 5971	COMP	PM
Analyzer pH Inspection/Service (1m) 5971	COMP	PM
Analyzer Spectrophotometer Insp/Service (1m) - 5971	COMP	PM
Analyzer Turbidity Inspection/Service (1m) 5971	COMP	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
PANEL ALARM/DIALER TEST (1m) - 5971	COMP	PM
UV Light Bank Insp/Service (1m) - 5971	COMP	PM
Monthly H&S Equipment Check (1m) - 5971	COMP	PM
Client Reports (1m) - Casselman 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

**Monthly Work Order Summary – May 2025**  
**Casselman Drinking Water System**

WISKI Monthly Review(1m) 5971	COMP	PM
Chemical Review (1y) - 5971	APPR	PM
Lifting Equipment Inspection (1y) 5971	APPR	PM
UV Sensor Reference Check/Calibration (1m) - 5971	COMP	PM
Casselman WDS 1553 - Shut Off +repairs - 126 Laurier	COMP	CAP

## Monthly Work Order Summary – May 2025

### Casselman Wastewater Treatment & Collection System

Description	Status	Work Type
1501- Casselman SPS#3 Loss of echo	COMP	CALL
Wet Well Low Lagoon	COMP	CALL
mmb#1 tank low level.	COMP	CALL
1501- Casselman Sewage- SPS6 Cleaning	COMP	CAP
1501-WWCA - Casselman Sewage SPS1 Upgrades	APPR	CAP
1501-06 Buildings and Grounds - MM - Lagoon Rodent Control	COMP	CAP
Workplace Inspection (1m) - 1501	COMP	OPER
Grating Insp (1y) - 1501, Casselman Wastewater Treatment	APPR	OPER
Generator Inspection (1m) SPS #1 1501	COMP	PM
Generator Inspection (1m) SPS #2 1501	COMP	PM
Generator Inspection (1m) SPS #3 1501	COMP	PM
Generator Inspection (1m) SPS #5 1501	COMP	PM
Generator Inspection (1m) SPS #6 1501	COMP	PM
Generator Inspection (1m) 1501	COMP	PM
Analyzer Turbidity Inspection/Service (1m) 1501	COMP	PM
PANEL ALARM/DIALER TEST SPS#4 (1m) 1501	COMP	PM
Monthly H&S Equipment Check (1m) - 1501	COMP	PM
Blower Inspection/Service (1m/1y) 1501	COMP	PM
Blower Inspection/Service (1m/1y) 1501	COMP	PM
Blower Inspection/Service (1m/1y) 1501	COMP	PM
Blower Inspection/Service (1m/1y) 1501	COMP	PM
Blower Inspection/Service (1m/1y) 1501	COMP	PM
Bar Screen Inspection (1m) 1501	COMP	PM

PANEL ALARM/DIALER TEST (1m) - 1501	COMP	PM
PANEL ALARM/DIALER TEST SPS#6 (1m) - 1501	COMP	PM
PANEL ALARM/DIALER TEST SPS#3 (1m) - 1501	COMP	PM
PANEL ALARM/DIALER TEST SPS#2 (1m) - 1501	COMP	PM
PANEL ALARM/DIALER TEST SPS#5 (1m) - 1501	COMP	PM
PANEL ALARM/DIALER TEST SPS#1 (1m) - 1501	COMP	PM
PANEL ALARM/DIALER TEST LAGOON (1m) - 1501	COMP	PM
WISKI Monthly Review(1m) 1501	COMP	PM
Chemical Review (1y) - 1501	APPR	PM
Lifting Equipment Inspection (1y) 1501	APPR	PM
Collection System Flushing and Wet well cleaning (1y) 1501	APPR	PM

## Appendix C

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### Locate Summary



## Casselman Monthly Locate Summary – May 2025

Description	Status	Work Type
Locate Casselman WDS 1553 -20251824998 - 866 Principal	COMP	CAP
Locate Casselman WDS 1553 -20251828329 - 5 Gange	COMP	CAP
Locate Casselman WDS 1553 -2025191911 - 791 Laval	COMP	CAP
Locate Casselman WDS 1553 -2025192831 - 697 Cartier	COMP	CAP
Locate Casselman WDS 1553 -2025199883 - 568 Civic	COMP	CAP
Locate Casselman WDS 1553 -20251910161 - 674 Ste Joseph	COMP	CAP
Locate Casselman WDS 1553 -20251917680- 46 roger crescent	COMP	CAP
Locate Casselman WDS 1553 -20251915833 - Sarah St	COMP	CAP
Locate Casselman WDS 1553 - 20251928638+20251928655 - Alice Valves	COMP	CAP
Locate Casselman WDS 1553 - 2025218844- 873 Laval	COMP	CAP
Locate Casselman WDS 1553 - 2025217489- 663 Montcalm	COMP	CAP
Locate Casselman WDS 1553 - 2025217484- 83 Laurier	COMP	CAP
Locate Casselman WDS 1553 - 2025213752- 285 Nature	COMP	CAP
Locate Casselman WDS 1553 - 20213469- Alice St	COMP	CAP
Locate Casselman WDS 1553 - 20251723231 - 568 Route 600 E	COMP	OPER
Locate Casselman WDS 1553 - 20251723380 - 674 St. Joseph St.	COMP	OPER
Locate Casselman WDS 1553 - 2025184540 - 41 DESNOYERS ST	COMP	OPER
Locate Casselman WDS 1553 - 2025188256 - 837 PRINCIPALE ST	COMP	OPER
Locate Casselman WDS 1553 - 2025189834 - 705 ST ISIDORE RD	COMP	OPER
Locate Casselman WDS 1553 - 20251813752 - 769 ST JEAN ST	COMP	OPER
Locate Casselman WDS 1553 - 20251815546 - 268 NATURE ST	COMP	OPER
Locate Casselman WDS 1553 - 20251823415 - 15 PERCY ST	COMP	OPER
Locate Casselman WDS 1553 - 2025184744 - 7 CASTONGUAY ST	COMP	OPER
Locate Casselman WDS 1553 - 2025180389 - 729 DES MERISIERS PLACE	COMP	OPER
Locate Casselman WDS 1553 - 2025188363 - 1 RICHER CIR	COMP	OPER
Locate Casselman WDS 1553 - 20251815546 - 268 NATURE ST	COMP	OPER



## Casselman Monthly Locate Summary – May 2025

Locate Casselman WDS 1553 - 20251815747 - 308 NATURE ST	COMP	OPER
Locate request "20251812989" 683 st isidore	COMP	OPER
Locate request "20251813001" 681 st isidore	COMP	OPER
Locate Request "20251813018" 693 St isidore	COMP	OPER
Locate Request "20251812890" 703 st isidore	COMP	OPER
Locate request "20251812978" 687 st isidore	COMP	OPER
Locate request "20251812963" 711 st isidore	COMP	OPER
Locate request "20251819198" 829 st isidore	COMP	OPER
Total : 34		