



**WASAGA BEACH
WATER POLLUTION CONTROL PLANT**

PERFORMANCE REPORT

For the period of
JANUARY 1, 2025 to JANUARY 31, 2025

Prepared by the Ontario Clean Water Agency



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

Table of Contents

1. Process Performance & Regulatory Compliance.....	3
1.1 Summary of Compliance Limit and Objective Exceedances & Non-Compliances.....	3
1.1.1 Description of ECA Limit and Objective Exceedances.....	3
1.1.2 Description of Single Sample Exceedances	3
1.1.3 Description of Non-Compliances.....	4
1.2 Summary of Process Performance	4
1.2.1 Raw Flow – Current Year	4
1.2.2 Raw Flow – Comparison with Previous Years.....	5
1.2.3 Weather Conditions	6
1.2.4 Effluent Quality.....	6
1.3 Sludge Haulage.....	7
1.3.1 Volume of Biosolids	7
1.4 Reportable Events: Spills & By-Pass/Overflow Events.....	8
1.5 Report Submissions	9
1.5.1 Annual Performance Report.....	9
1.5.2 Discharge Data Report (MECP).....	10
1.5.3 Monitoring Reports (WSER)	10
1.6 Third-Party Inspections & Results	10
2. Operations & Maintenance	11
2.1 Major Maintenance, Repair & Capital	11
2.2 Call-Ins	11
2.3 Community Complaints/Inquires	12
3. Health & Safety	12
3.1 Health & Safety Incidents	12
3.2 Health & Safety Training.....	12

Note: This report may not represent the most recent available data. Any missing data will be added in the following months report.

1. Process Performance & Regulatory Compliance

1.1 Summary of Compliance Limit and Objective Exceedances & Non-Compliances

From **January 1, 2025 to January 31, 2025:**

- Number of Regulatory Limit Exceedances = **1**
- Number of Regulatory Objective Exceedances = **1**
- Number of Non-Compliances = **1**

The Wasaga Beach WPCP performed within the regulatory limits set out in:

- Environmental Compliance Approval (ECA) #0766-CM9RQA
- The Federal Wastewater Systems Effluent Regulation (WSER)

2025	ECA Limit Exceedance	ECA Objective Exceedance	Non-Compliances
January	1	1	1
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

1.1.1 Description of ECA Limit and Objective Exceedances

The following is a summary of any environmental compliance approval limit and objective exceedances, their respective cause; as well as the measures that were taken to correct the issue:

Exceedance(s)	Cause	Corrective Actions
For January 2025, the total phosphorus (TP) monthly average was 0.24 mg/L, which was higher than the ECA limit (0.20 mg/L) and Objective (0.15 mg/L)	Treatment process upsets, the January 8 bypass incident and filter issues all resulted in the exceedance	Corrective actions include: improving upstream treatment processes, filter repairs and preventive maintenance

1.1.2 Description of Single Sample Exceedances

The following is a summary of any single sample environmental compliance approval limit and/or objective exceedances, their respective cause, as well as the measures that were taken to correct the issue. Note that single sample exceedances are occurrences where an individual sample may have contained a result above the ECA limit/objective but does not result in an exceedance of the monthly/annual average ECA limit or objective exceedance as defined by the facility ECA.

Exceedance(s)	Cause	Corrective Actions
Jan 7 – Total Phosphorus (TP) was 0.28 mg/L > 0.15 mg/L (objective limit)	Filter Issues	Repaired filter
Jan 21 – TP 0.17 mg/L > 0.15 mg/L (objective limit)	Filter Issues	Repaired filter
Jan 28 – Total Suspended Solids (TSS) was 11 mg/L > 5 mg/L (objective limit) Jan 28 – TP was 0.25 mg/L > 0.15 mg/L (objective limit)	Filter issues and high solids inventory	Repaired filter and increased wasting

1.1.3 Description of Non-Compliances

The following is a summary of the requirements of the wastewater systems effluent regulation, the environmental compliance approvals, and any orders applicable to the system that were not met at any time during the time period covered by this report; as well as the duration of the failure and the measures that were taken to correct the failure:

Non-Compliance(s)	Duration	Required Actions & Corrective Actions
N/A	N/A	N/A

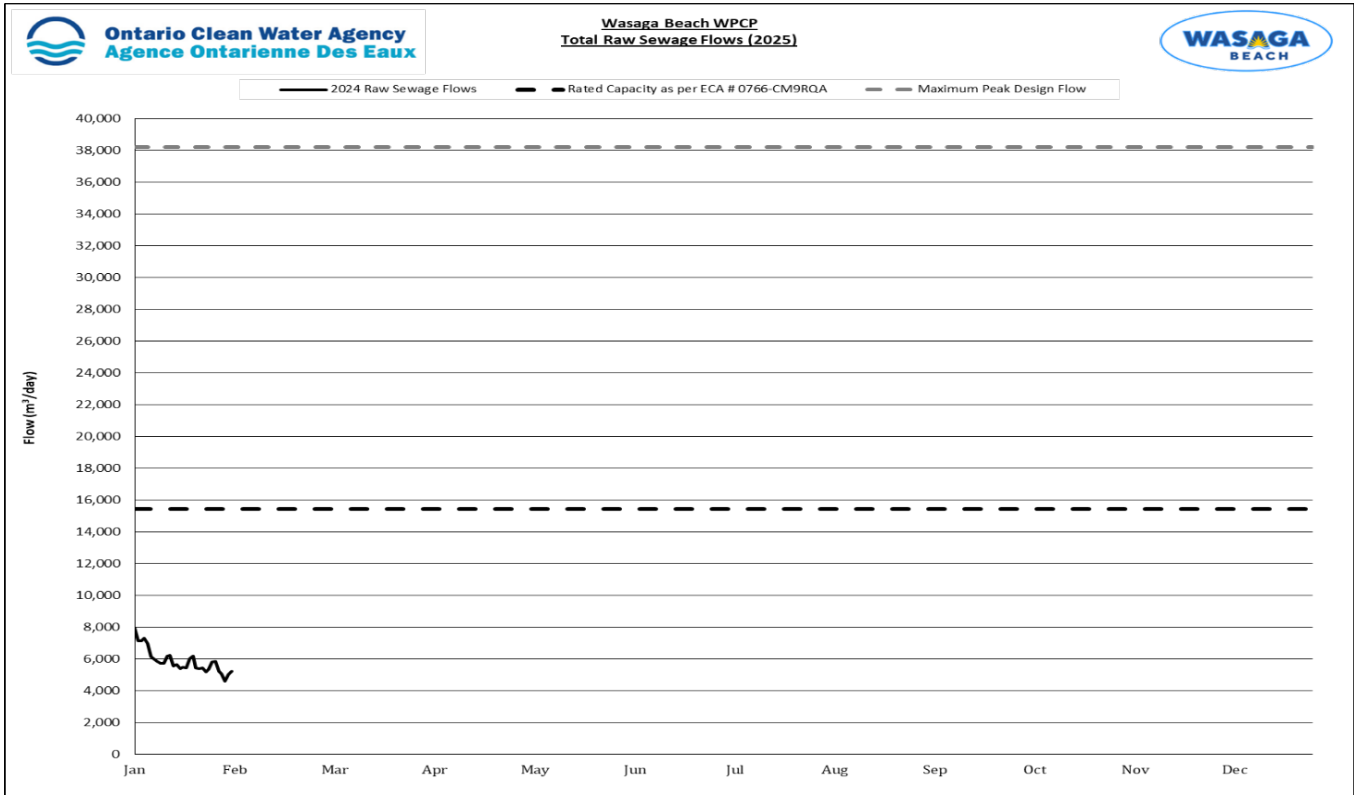
1.2 Summary of Process Performance

1.2.1 Raw Flow – Current Year

For 2024 to date the Wasaga Beach WPCP has operated within the Rated Capacity and Peak Design Flow of the wastewater treatment plant.

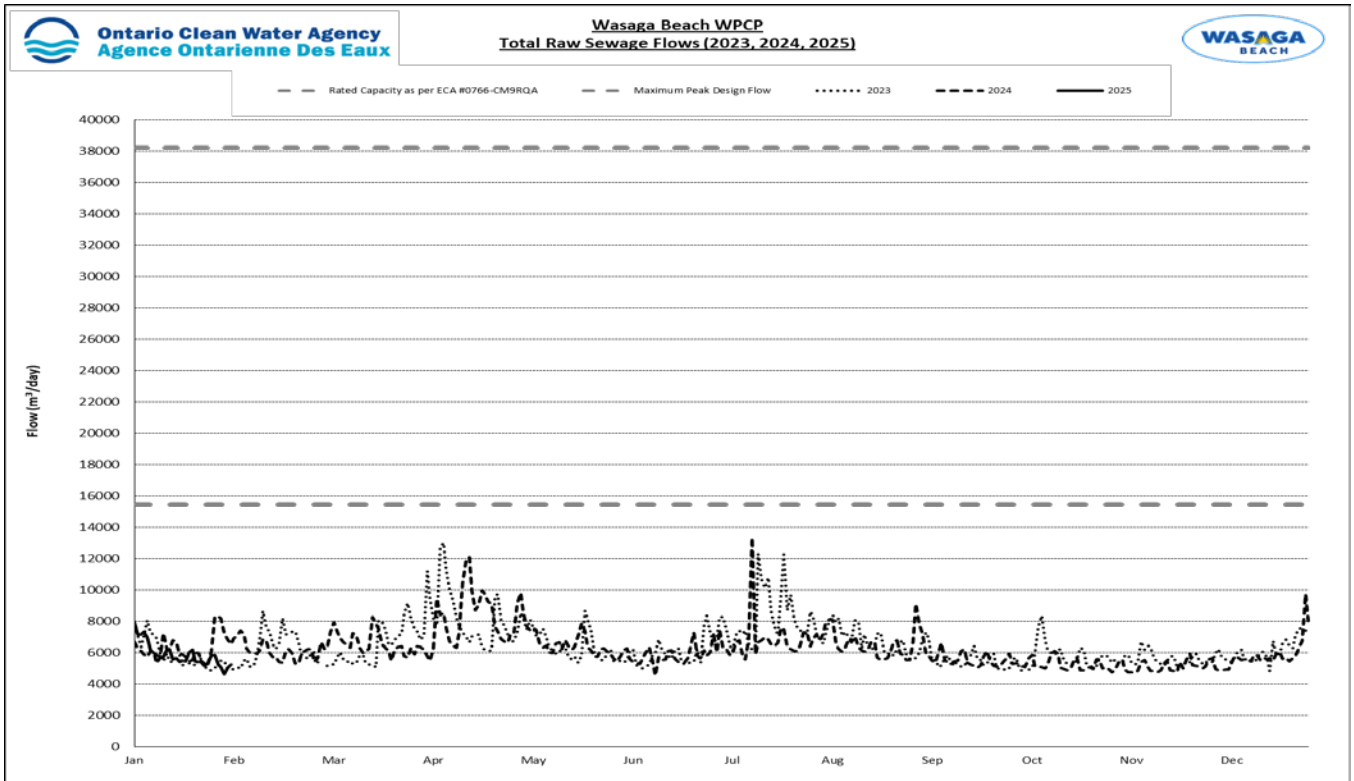
2024	Maximum Daily Raw Sewage Flow (m ³ /d)	% of Rated Capacity	Within Rated Capacity (15,433 m ³ /d)	% of Peak Design Flow Rate	Within Peak Design Flow Rate (38,210 m ³ /d)
January	7,961	51.58	Yes	20.83	Yes
February					
March					
April					
May					
June					
July					
August					
September					
October					
November					
December					

The following is a graphic representation of 2025 raw sewage flow compared to Rated Capacity and Maximum Peak Design Flow Rate:



1.2.2 Raw Flow - Comparison with Previous Years

The following is a graphic representation of the raw sewage flow over the last three years (2023-2025):



The total raw sewage flows for January 2025 was 181,799 m³ for the Wasaga Beach WPCP which was more than in January 2024 and 2023 at 170,582 m³ and 167,016 m³ respectively.

1.2.3 Weather Conditions

- January 2025 had 25.0 mm of precipitation (compared to 68.9 mm in January 2024), and an average temperature of -8.7°C (compared with -4.2°C in January 2024) with a minimum of -26.2°C (compared with -19.4°C in January 2024) and a maximum of 1.3°C (compared with 5.9°C in January 2024).

*Weather Data from Environment Canada (Historical Weather Database)

1.2.4 Effluent Quality

1.2.4.1 Effluent Quality vs. ECA Compliance Limits & Objectives

2025	CBOD ₅				Total Suspended Solids			
	Monthly Average (mg/L)	Annual Average (mg/L)	Within Limits (10 mg/L)	Within Objectives (5.0 mg/L)	Monthly Average (mg/L)	Annual Average (mg/L)	Within Limits (10 mg/L)	Within Objectives (5.0 mg/L)
January	4.50	4.50	Yes	Yes	14.0	14.0	No	No
February								
March								
April								
May								
June								
July								
August								
September								
October								
November								
December								

2025	Total Phosphorous			E.Coli+		
	Monthly Average (mg/L)	Within Limits (0.20 mg/L)	Within Objectives (0.15 mg/L)	Monthly Geometric Mean Density (orgs/100 mL)	Within Limits (200 orgs/100 mL)	Within Objectives (150 orgs/100 mL)
January	0.24	No	No	4.75	Yes	Yes
February						
March						
April						
May						
June						
July						
August						
September						
October						
November						
December						

+ Based on a monthly geometric mean density of E.Coli lab results from weekly sampling.

2025	Ammonia (Dec 1 – Apr 30)			Ammonia (May 1 – Nov 30)		
	Maximum Daily (mg/L)	Within Limits (5.0 mg/L)	Within Objectives (4.0 mg/L)	Maximum Daily (mg/L)	Within Limits (1.1 mg/L)	Within Objectives (1.0 mg/L)
January	<0.13	Yes	Yes	-	-	-
February				-	-	-
March				-	-	-
April				-	-	-
May	-	-	-			
June	-	-	-			
July	-	-	-			
August	-	-	-			
September	-	-	-			
October	-	-	-			
November	-	-	-			
December				-	-	-

1.3 Sludge Haulage

The hauling and spreading of sludge from the Wasaga Beach WPCP occurs as required (storage capacity). Sludge haulage and agricultural land application is contracted to Region of Huronia Environmental Services.

As required by the Nutrient Management Act, chemical analyses of the sludge storage tanks contents are to be completed and the results sent to the contractor prior to haulage and spreading. Samples are taken on a monthly basis and sent for chemical analysis.

Agriculture, Food and Rural Affairs (OMAFRA) approved Non-Agricultural Source Material Plans (NASM Plans) and Certificates of Approval based on Ontario Regulation 338/09 made under the Nutrient Management Act, 2002. NASM Plans under the Nutrient Management Act are issued to the owner (farmer) who is responsible for managing the plan with assistance from the NASM Plan Developer.

1.3.1 Volume of Biosolids

From **January 1, 2025 to January, 2025:**

- Total Sludge Haulage (2025) to date = 0 m³

2025	Monthly Sludge Haulage Volume (m ³)	NASM Disposal Site
January	0	N/A
February		
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		

1.4 Reportable Events: Spills & By-Pass/Overflow Events

From **January 1, 2025 to January 31, 2025:**

- Number of Reportable Events to date= 1

2025	Date (yyyy/mm/dd)	Event	Details
January	2025/01/08	Partial Bypass Filter 2	<p>SAC Reference Number: 1-FREB8T Bypass Date & Time: 2025-01-08; 1323 to 1324 hours Duration: 1 minute Bypass Contents: Partially Treated, UV Disinfected Secondary Effluent Approximate Volume: 0.5 m³</p> <p><u>Incident Description</u> During maintenance/trouble shooting, disk filter 2 was unable to keep up with the flow passing through the facility. All effluent passed through UV disinfection.</p> <p><u>Corrective Actions</u> In response to this event, the sand filter inlets were opened partially.</p> <p><u>Reporting</u> January 8, 2025 at 1336 hours, OCWA Operator (OIC), Dustin Trace, verbally notified Environmental Officer Neil St.Denis at the Spills Action Centre (SAC). No further actions advised. January 8, 2025 at 1353 hours, OCWA Operator(OIC), Dustin Trace, verbally notified Public Health Inspector, Craig Dale, with the Ministry of Health- Simcoe Muskoka District Health Unit. No further actions advised. January 8, 2025 at 1438 hours, Georgian Bay Process and Compliance Technician, Angela Pauze, left a voicemail for MECP Inspector/Environmental Officer Darren Haines advising of incident. January 8, 2025 at 1400 hours, Senior Operations Manager, Colin Kasperavicius, verbally notified the Town of Wasaga Beach of the incident. January 9, 2025 at 1100 hours, downstream user notification form was sent to the Town as per the ECA for posting</p>
February			
March			
April			
May			
June			
July			
August			
September			
October			
November			
December			

1.5 Report Submissions

A summary of the reports submitted by OCWA on behalf of the Municipality are summarized in the table below:

Report	Submission Frequency	Submitted To	Last Submission Date	Next Report Due
Annual Performance Report	Annual (March 31 st)	MECP – District Manager	March 28, 2024 (2023 Report)	March 31, 2025 (2024 Report)
Discharge Data Reports	45 days after the Quarter	MECP	November 14, 2024 (2024 Q3 Report)	February 15, 2025 (2024 Q4 Report)
Monitoring Reports – Wastewater Systems Effluent Regulation (WSER)	45 days after the Quarter	Environment Canada – Effluent Regulatory Reporting Information System (ERRIS)	November 14, 2024 (2024 Q3 Report)	February 15, 2025 (2024 Q4 Report)

1.5.1 Annual Performance Report

An Annual Performance Report is submitted as required by the ECA for the Wasaga Beach WPCP within 90 days following the end of the period being reported upon. The most recent Annual Performance Report was submitted as per ECA #0766-CM9RQA. The following items are required to be included in the report:

- (a) a summary and interpretation of all Influent, and Imported Sewage monitoring data, and a review of the historical trend of the sewage characteristics and flow rates;
- (b) a summary and interpretation of all Final Effluent monitoring data, including concentration, flow rates, loading and a comparison to the design objectives and compliance limits in this Approval, including an overview of the success and adequacy of the Works;
- (c) a summary of all operating issues encountered and corrective actions taken;
- (d) a summary of all normal and emergency repairs and maintenance activities carried out on any major structure, equipment, apparatus or mechanism forming part of the Works;
- (e) a summary of any effluent quality assurance or control measures undertaken;
- (f) a summary of the calibration and maintenance carried out on all Influent, Imported Sewage and Final Effluent monitoring equipment to ensure that the accuracy is within the tolerance of that equipment as required in this Approval or recommended by the manufacturer;
- (g) a summary of efforts made to achieve the design objectives in this Approval, including an assessment of the issues and recommendations for pro-active actions if any are required under the following situations:
 - i. when any of the design objectives is not achieved more than 50% of the time in a year, or there is an increasing trend in deterioration of Final Effluent quality;
 - ii. when the Annual Average Daily Influent Flow reaches 80% of the Rated Capacity;
- (h) a tabulation of the volume of sludge generated, an outline of anticipated volumes to be generated in the next reporting period and a summary of the locations to where the sludge was disposed;
- (i) a summary of any complaints received and any steps taken to address the complaints;
- (j) a summary of all Bypasses, Overflows, other situations outside Normal Operating Conditions and spills within the meaning of Part X of EPA and abnormal discharge events;
- (k) a summary of all Notice of Modifications to Sewage Works completed under Paragraph 1.d. of Condition 10, including a report on status of implementation of all modification.

(l) a summary of efforts made to achieve conformance with Procedure F-5-1 including but not limited to projects undertaken and completed in the sanitary sewer system that result in overall Bypass/Overflow elimination including expenditures and proposed projects to eliminate Bypass/Overflows with estimated budget forecast for the year following that for which the report is submitted;

(m) any changes or updates to the schedule for the completion of construction and commissioning operation of major process(es) / equipment groups in the Proposed Works;

(n) a summary of any deviation from the monitoring schedule and reasons for the current reporting year and a schedule for the next reporting year;

1.5.2 Discharge Data Report (MECP)

The Ontario Clean Water Agency (OCWA) has an agreement with the Ministry of Environment, Conservation and Parks (MECP) to submit quarterly discharge data for all OCWA operated municipal sewage treatment facilities 45 days at the end of each quarter. Monitoring data is submitted via the Ministry of Environment Wastewater System (MEWS). The MECP stores these reports in a shared location where MECP Inspectors can obtain and review them. There are no limits/objectives for the quarterly Discharge Data Report.

1.5.3 Monitoring Reports (WSER)

A monitoring report required under the Wastewater Systems Effluent Regulation (WSER) is submitted on a quarterly basis to Environment Canada via the Effluent Regulatory Reporting Information System (ERRIS). The quarterly monitoring report requires that the following information be reported for the Wasaga Beach WPCP:

- Number of days effluent was deposited
- Total volume of effluent deposited
- Average CBOD (limit of 25 mg/L)
- Average concentration of suspended solids (limit of 25 mg/L)
- Acute Toxicity (limit of 50% mortality rate)

1.6 Third-Party Inspections & Results

There have been no third party inspections performed during the reporting period. The last MECP Inspection was performed on **January 10, 2019**.

2. Operations & Maintenance

2.1 Major Maintenance, Repair & Capital

2025	Maintenance, Repair & Capital Summary
January	<ul style="list-style-type: none"> Monthly Facility Inspections- Clarifier, H&S, Panels, Genset, Valve Gate, UV, Compressor, MCC, O&M Inspections (PM) Inlet Building Emergency HVAC Repairs (CORR)
February	
March	
April	
May	
June	
July	
August	
September	
October	
November	
December	

Where, PM is Preventive Maintenance, CAP is Capital, CORR is Corrective

2.2 Call-Ins

2025	# of Call-Ins	Details of Call-Ins
January	10	<ul style="list-style-type: none"> Jan 1, WPCP - Disk Filter Influent Box High Level Alarm Jan 4, WPCP - Disk Filter Influent Box High Level Alarm Jan 7, WPCP -Disk Filter Influent Box High Level Alarm Jan 9, WPCP - Disk Filter Influent Box High Level Alarm Jan 13, Pump Station 3 – Wetwell High Level Alarm Jan 19, WPCP - Disk Filter Influent Box High Level Alarm Jan 22, WPCP – RAS2 Clarifier Torque Alarm Jan 23, WPCP - High Filter Inlet Alarm Jan 25, WPCP – High Filter Inlet Channel Alarm Jan 26, Pump Station 20 – Late to Test Alarm
February		
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		

2.3 Community Complaints/Inquires

2025	# of Comm. Complaints	Details of Community Complaints/Inquires
January	0	• N/A
February		
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		

3. Health & Safety

3.1 Health & Safety Incidents

From **January 1, 2025** to **January 31, 2025**:

- Number of Health & Safety Incidents Reported = 0

2025	Health & Safety Incidents	
	# Reported	Details
January	0	N/A
February		
March		
April		
May		
June		
July		
August		
September		
October		
November		
December		

3.2 Health & Safety Training

The following safety training and safety topics were provided to staff:

2025	H&S Topics
January	<ul style="list-style-type: none"> • Monthly Safety Topic: Eye Protection • Health, Safety & Wellness First: Making STOP Part of Your 2025 Safety Commitment • Health, Safety & Wellness First: Eye Protection • Weekly Health & Safety Topic: Back Injury Prevention

2025	H&S Topics
	<ul style="list-style-type: none"><li data-bbox="380 239 927 266">• Weekly Health & Safety Topic: Get Up Day
February	
March	
April	
May	
June	
July	
August	
September	
October	
November	
December	