March 27, 2026

Director
Ministry of the Environment, Conservation and Parks
Southwest Region
733 Exeter Rd
London, ON N6E 1L3

Re: Hensall Sewage Lagoons and Bluewater Municipal Sewage Collection System Annual Performance Report

Attached is the 2025 Annual Performance Report for the Hensall Sewage Lagoon and the Bluewater Municipal Sewage Collection System. This report has been completed in accordance with Condition 11(4) of Environmental Compliance Approval No. A-500-4203225238 dated May 8, 2024, and Schedule E, Condition 4.0 (4.6) of CLI-ECA No. 045-W601 issued on June 20, 2023. This report was prepared by the Ontario Clean Water Agency on behalf of the Bluewater Municipality based on the information we have in our records. The report covers the period of January 1st to December 31st, 2025.

If you have any questions, please do not hesitate to contact me. 519-441-0441.

Sincerely,

Katelyn Barrowcliffe
Process and Compliance Technician
Ontario Clean Water Agency

Cc Scott Gass, MECP, District Manager
Sam Smith, OCWA, Regional Hub Manager
Paul Sherban, OCWA, Senior Operations Manager
Maegan Garber, OCWA, Safety, Process and Compliance Manager
Dave Kester, Municipality of Bluewater, Manager of Public Works

Hensall Sewage Lagoon and Collection System Annual Performance Report

Prepared For:
The Municipality of Bluewater

Operating Authority:

OCWA
ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Reporting Period of January 1 – December 31, 2025

Issued: March 27, 2026

Table of Contents

Overview

The following report was prepared by Ontario Clean Water Agency on behalf of The Municipality of Bluewater in accordance with:

- Condition 11(4) (a) through (m) cited in Environmental Compliance Approval (ECA) #A-500-4203225238 issued May 8, 2024, to The Corporation of the Municipality of Bluewater.
- Schedule E (4) cited in Consolidated Linear Infrastructure Environmental Compliance Approval (CLI-ECA) #045-W601 issued June 20, 2023, to The Corporation of the Municipality of Bluewater.

System Process Description

The Hensall Sewage Lagoon is located at 39868 Rodgerville Road, Hensall, Ontario. The facility has a rated capacity of 980 m^3/d and is comprised of the following components:

- Wastewater collection (WWC) system and sewage pumping station (SPS)
- Three facultative lagoons with supplementary treatment
- Intermittent Sand Filters (ISF)

Raw Wastewater Collection

Raw sewage flows by gravity through the collection system to the Richmond Street SPS. The Richmond Street SPS has two submersible pumps that pump sewage to the Hensall Sewage Lagoon through a 200 mm forcemain. Milltronics monitor wet well levels, which control the start/stop cycle of all pumps and alarms. The station has a 250 mm overflow that discharges into a municipal drain and a standby generator.

Sewage Lagoons

Sewage comes through an inlet structure with three weirs. Sewage flows over the weirs to enter the lagoon cells. Flow over the weirs can be blocked by placing stop-gates to prevent flow into any individual cell. Generally, Cells 1 and 3 operate in parallel with raw sewage divided equally between both cells. Sewage then overflows to Cell 2. There is a minimum total hydraulic retention time of 60 days and sufficient storage to store the inflow during the freezing period when the sand filters cannot operate.

Aluminum sulfate is added to the lagoons to coagulate suspended particles in the sewage. The coagulated particles grow to sufficient size where they readily settle. This assists in removing phosphorous from the wastewater before being discharged from the lagoon.

Intermittent Sand Filters (ISF)

The ISF provides filtration and treatment of effluent from the lagoon cells during the non-freezing periods. The filters are a two-cell system where either of the filter beds can be operational while the other is removed from service and still maintain the design capacity of the facility. Effluent from the ISF is fed by gravity to a discharge chamber and then into Black Creek.

System Facts:

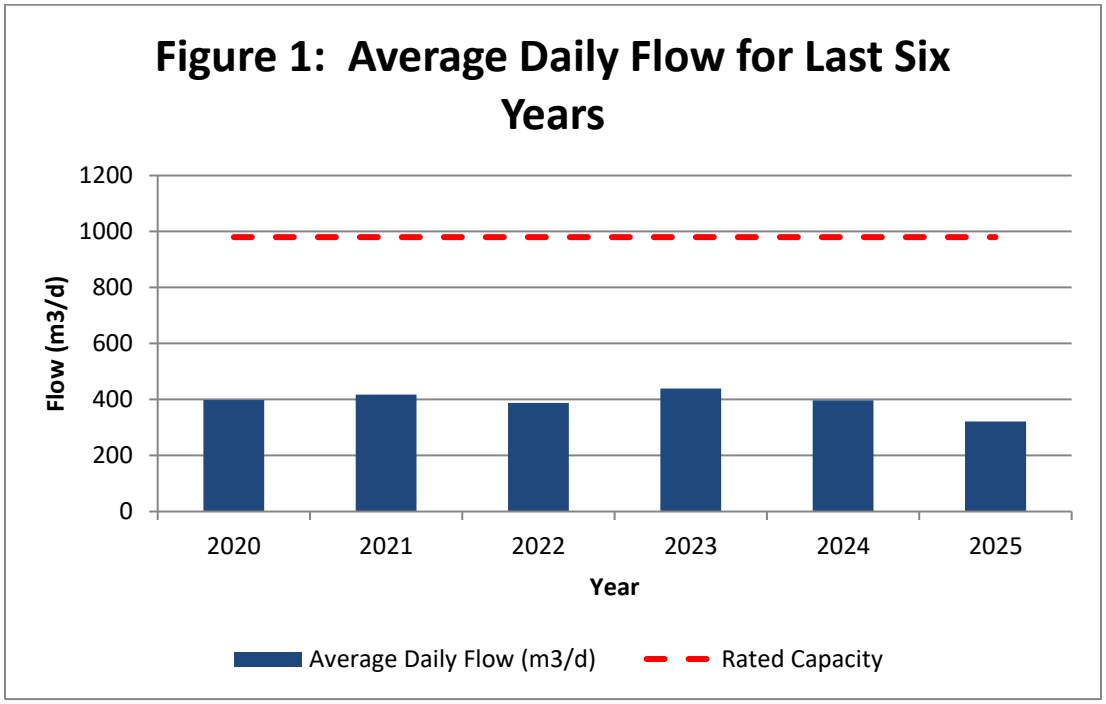
Environmental Compliance Approval	#A-500-4203225238 (issued May 8, 2024)
CLI Environmental Compliance Approval	#045-W601 (issued June 20, 2023)
Rated Capacity	980 m^3/d
Receiving Water	Black Creek

The Hensall Sewage Lagoon and WWC system wa operated in accordance with the provincial regulations as required under ECA #A-500-4203225238 and CLI-ECA #045-W601.

Influent and Effluent Flow Monitoring

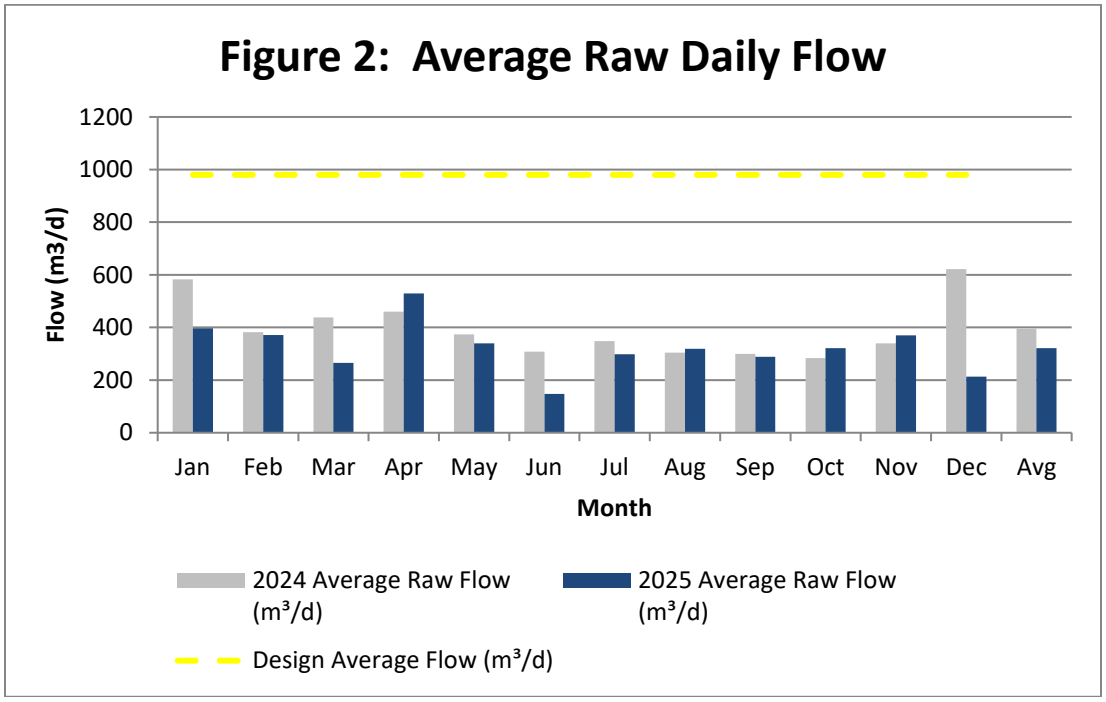
The Hensall Sewage Lagoon is rated to treat an average daily flow of 980 m^3. Refer to Figure 1 for a comparison of the average daily flow for the last six years against the rated capacity. The Hensall Sewage Lagoon is currently at 33% of the rated capacity of 980 m^3/d.

Figure 1: *Influent Flows 2020-2025*



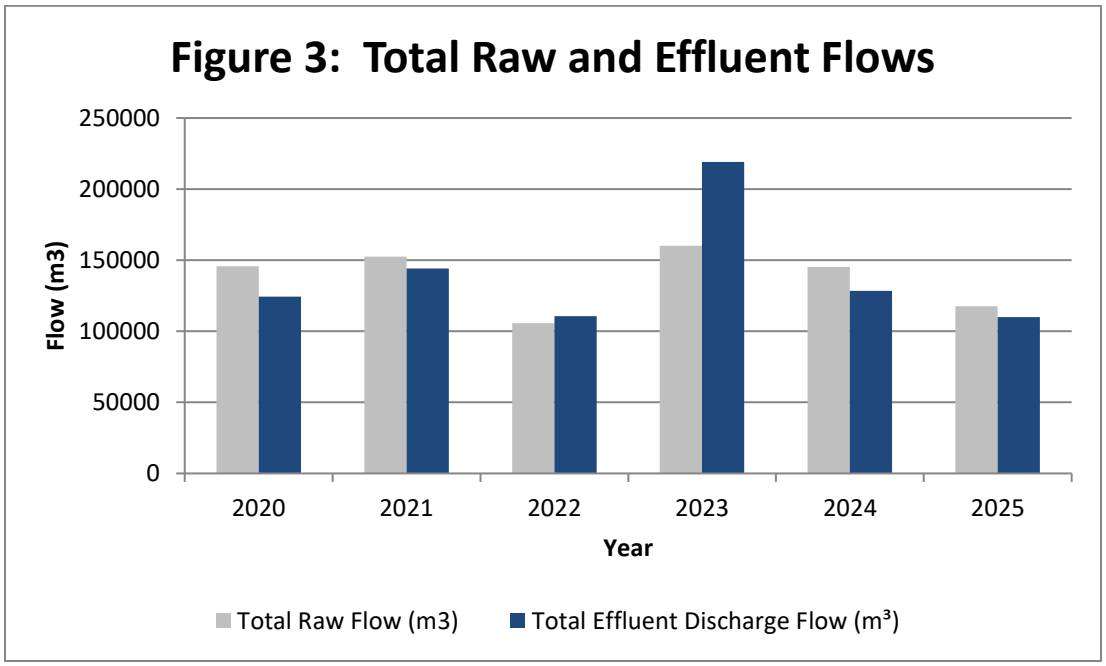
The raw sewage average daily flow was 321 m^3/d in 2025 compared to 395 m^3/d in 2024. This 18% decrease is attributed to drier weather conditions experienced during the reporting period. Refer to Figure 2 for 2024 and 2025 average daily flows and corresponding annual averages.

Figure 2: *Average Daily Flows by Month*



Refer to Figure 3 for a comparison of total raw and effluent flows over the past six years. Variations in effluent flow are influenced by incoming raw flow volumes and the corresponding lagoon storage capacity.

***Figure 3**: Total Raw and Effluent Flow 2020-2025*

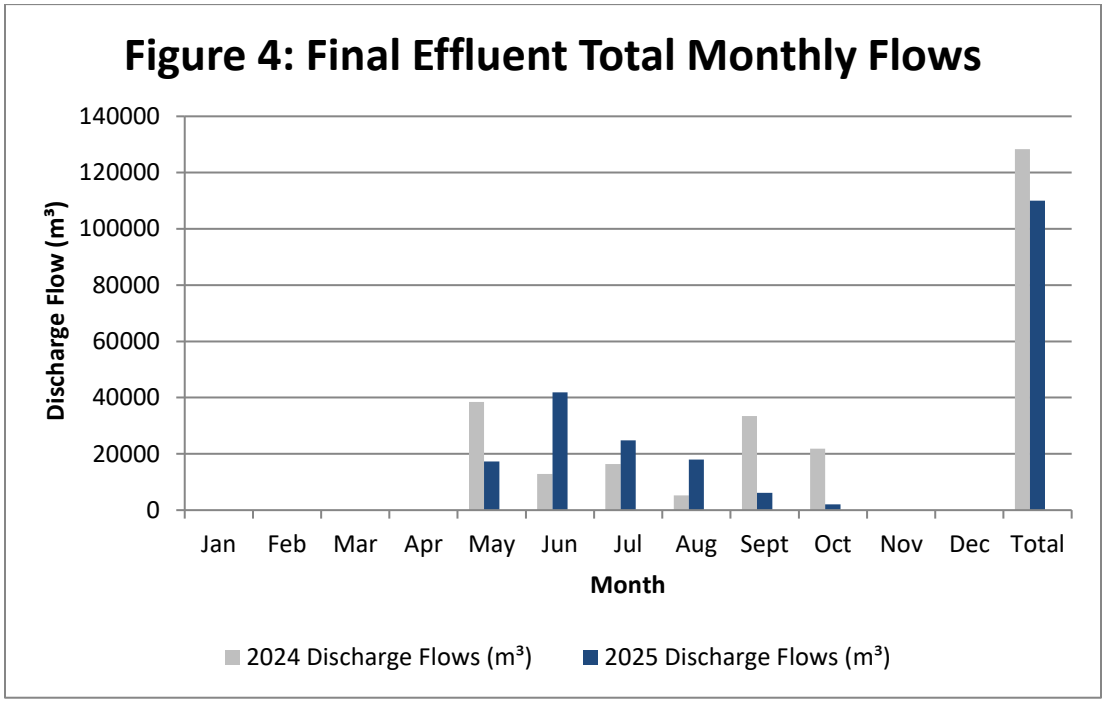


In 2025, the Hensall Sewage Lagoon discharged a total of 110,027 m^3 of effluent. This 14% decrease from 2024 is consistent with reduced raw inflow in 2025. The average daily discharge flow was 780 m^3/d in 2025 versus 910 m^3/d in 2024.

The maximum daily discharge flow in 2025 was 1849 m^3 recorded July. All flows were within the maximum daily hydraulic loading rate on the ISF of 3615 m^3/d as required in the ECA.

Discharge periods in 2025 included: May 5 to May 30, June 3 to July 4, July 21 to August 15, and September 8 to October 17. Periods when the discharge was off were due to rest/maintenance of the ISF. Refer to Figure 4 for final effluent total monthly flows for 2024 and 2025.

Figure 4*: Final Effluent Total Monthly Flows*



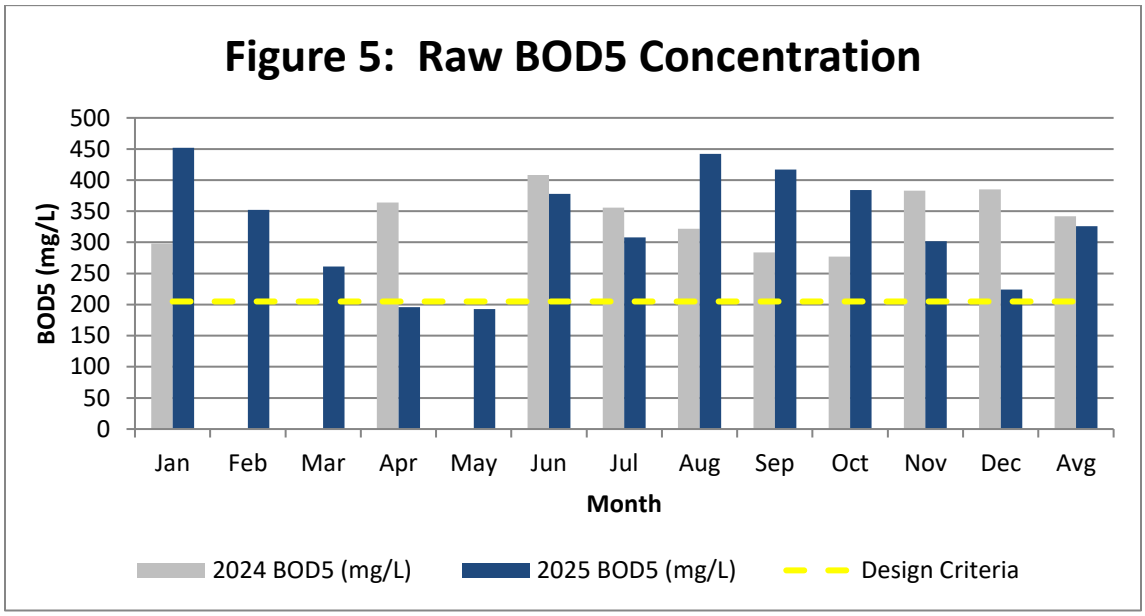
Influent Data

Influent is monitored through a monthly grab sample for Biological Oxygen Demand (BOD_5), Total Suspended Solids (TSS), Total Phosphorous (TP), and Total Kjeldahl Nitrogen (TKN).

Influent parameters are measured against the design criteria of the Hensall Sewage Lagoon. Values above design concentrations can result in ineffective treatment of raw sewage and can lead to effluent limit exceedances. In 2025, all influent parameters were above design concentrations for multiple months; however, this did not affect effluent water quality, which continued to meet ECA limits. The increase in influent parameter concentrations was attributed to less dilution as a result of low precipitation during the reporting period.

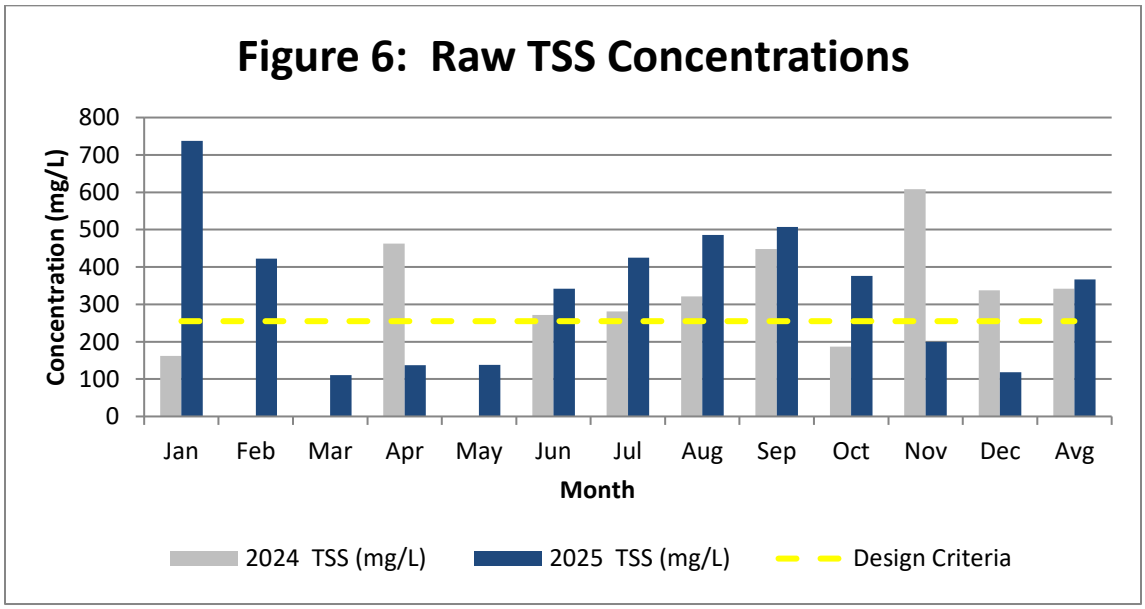
In 2025, the average raw BOD_5 concentration was 325 mg/L, representing a 4% decrease from 2024. Refer to Figure 5 for a comparison of the 2025 raw BOD_5 concentrations compared to 2024. The total BOD_5 loading rate for 2025 was 6.55 kg/ha/d, which remained well below the ECA limit of 22 kg/ha/d specified in Condition 8.5. The maximum monthly BOD_5 loading rate was recorded in January at 11.85 kg/ha/d. All monthly values throughout 2025 complied with the 22 kg/ha/d requirement.

Figure 5: *Raw BOD_5 Concentrations*



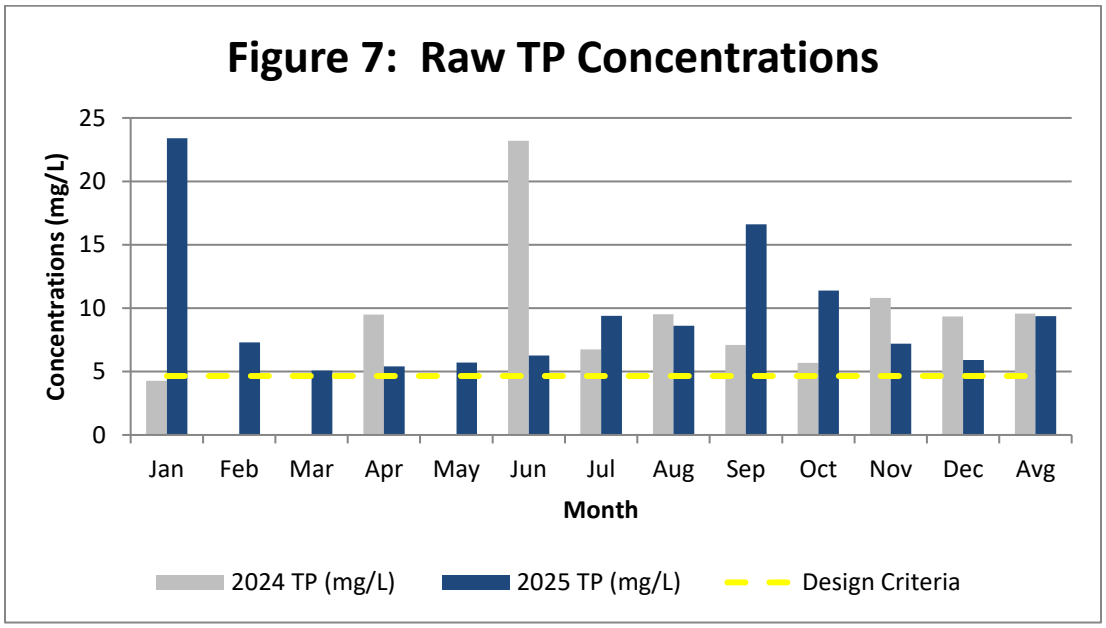
In 2025, the average raw TSS concentration was 367 mg/L, which is a 7% increase from 2024. This increase is attributed to highly concentrated influent entering the lagoon system, which caused all influent parameters to be elevated in January. Refer to Figure 6 for a comparison of 2025 raw TSS concentrations to 2024 concentrations.

Figure 6: *Raw TSS Concentrations*



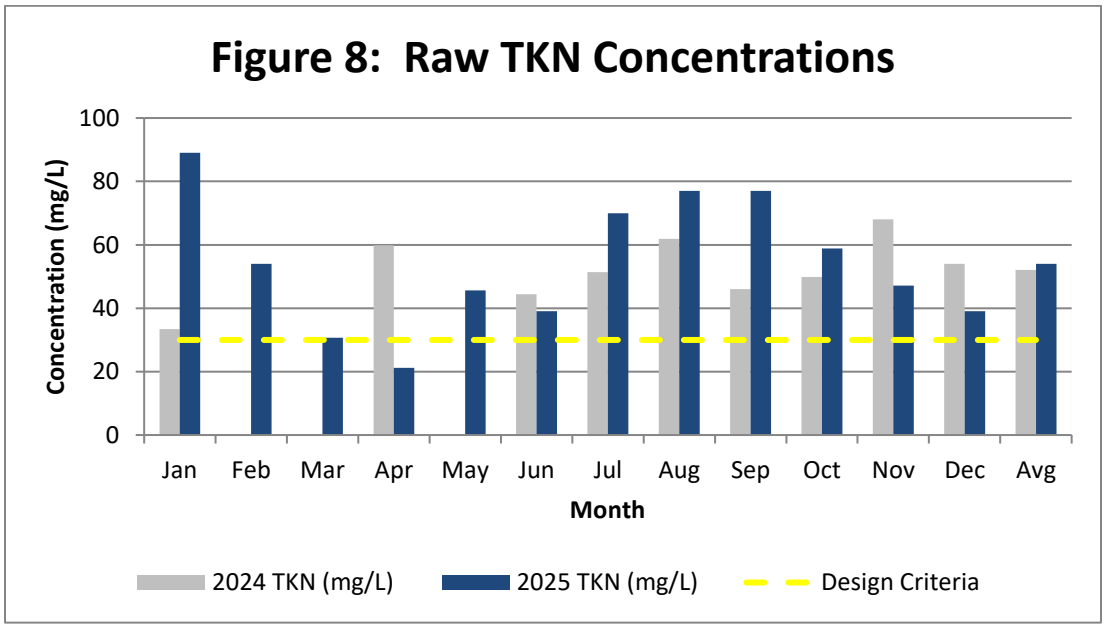
In 2025, the average raw TP concentration was 9.3 mg/L, which is a 2% decrease from 2024. Refer to Figure 7 for a comparison of 2025 raw TP concentrations to 2024 concentrations.

Figure 7: *Raw TP Concentrations*



In 2025, the average raw TKN concentration was 54 mg/L, which is a 4% increase from 2024. Refer to Figure 8 for a comparison of 2025 raw TKN concentrations to 2024 concentrations.

Figure 8: *Raw TKN Concentrations*



Imported Sewage

The Hensall Sewage Lagoon did not receive any imported sewage during the 2025 reporting period

Effluent Monitoring

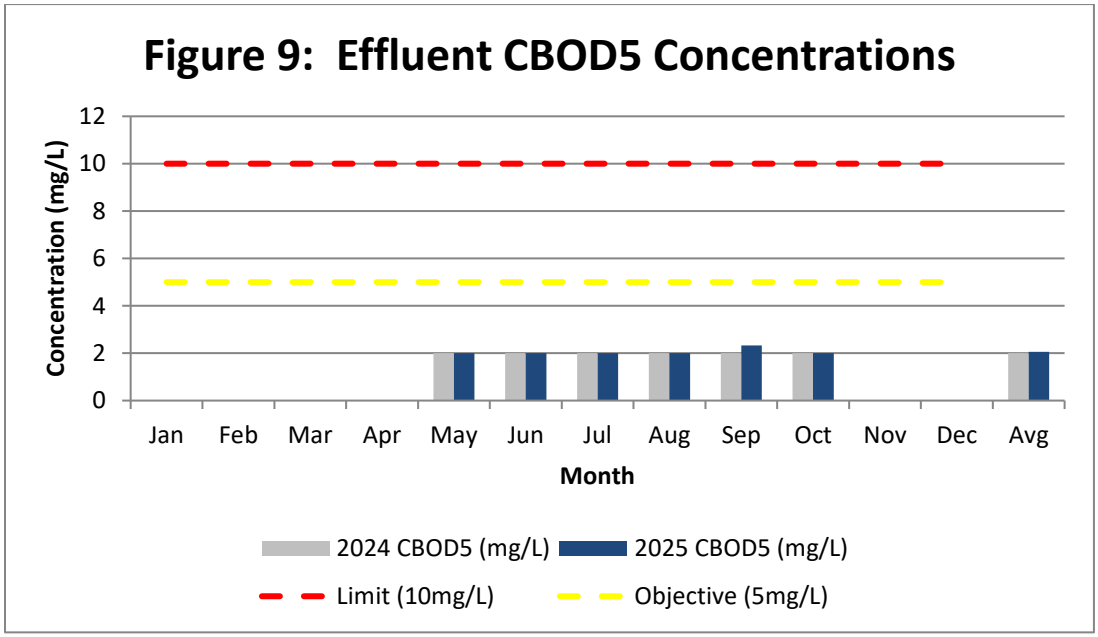
The lagoon effluent is permitted to be discharged between April 16 and November 30 in accordance with the ECA. For a list of all discharge periods in 2025, refer to 'Influent and Effluent Flow Monitoring'.

Effluent from the Hensall Sewage Lagoon is sampled twice weekly through grab samples and analyzed for Carbonaceous Biological Oxygen Demand ($CBOD_5$), TSS, TP, Total Ammonia Nitrogen (TAN), TKN, Nitrate (NO_3), Nitrite (NO_2), E. coli, pH, and Temperature. For details on objective and limit exceedances, refer to 'Summary of Efforts Made to Achieve Design Objectives'**.**

Comparison to Compliance Limits and Objectives

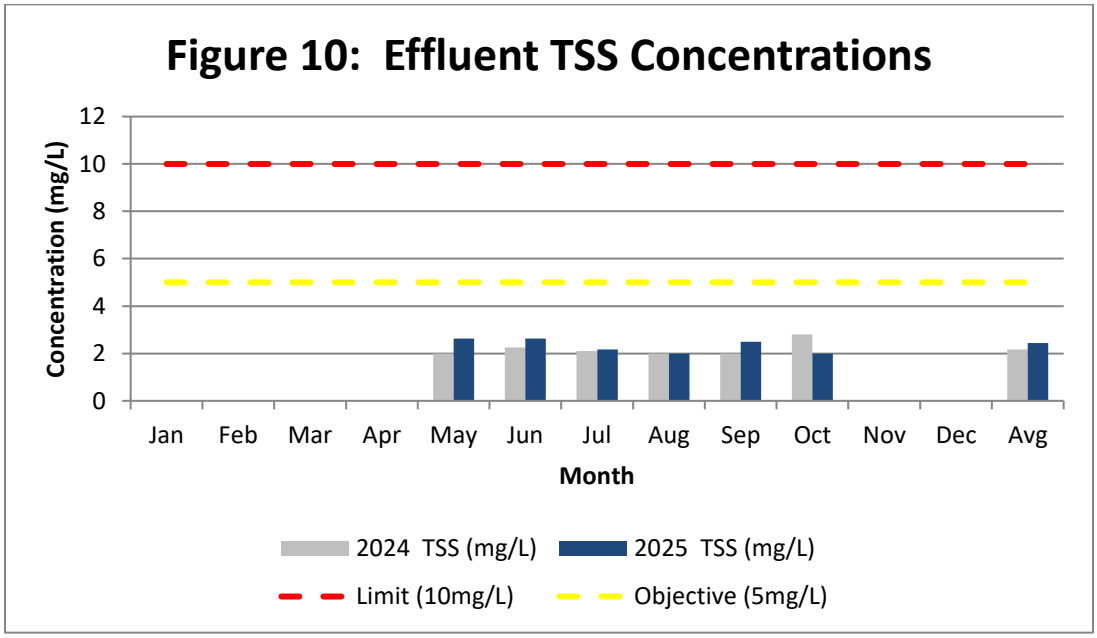
In 2025, the average monthly effluent $CBOD_5$ concentration was 2.1 mg/L, which is a 3% increase from 2024. The limit and objective were met throughout the year. Refer to Figure 9 for a comparison of 2025 monthly effluent $CBOD_5$ concentrations compared to 2024 concentrations.

Figure 9: *Effluent $CBOD_5$ Concentrations*



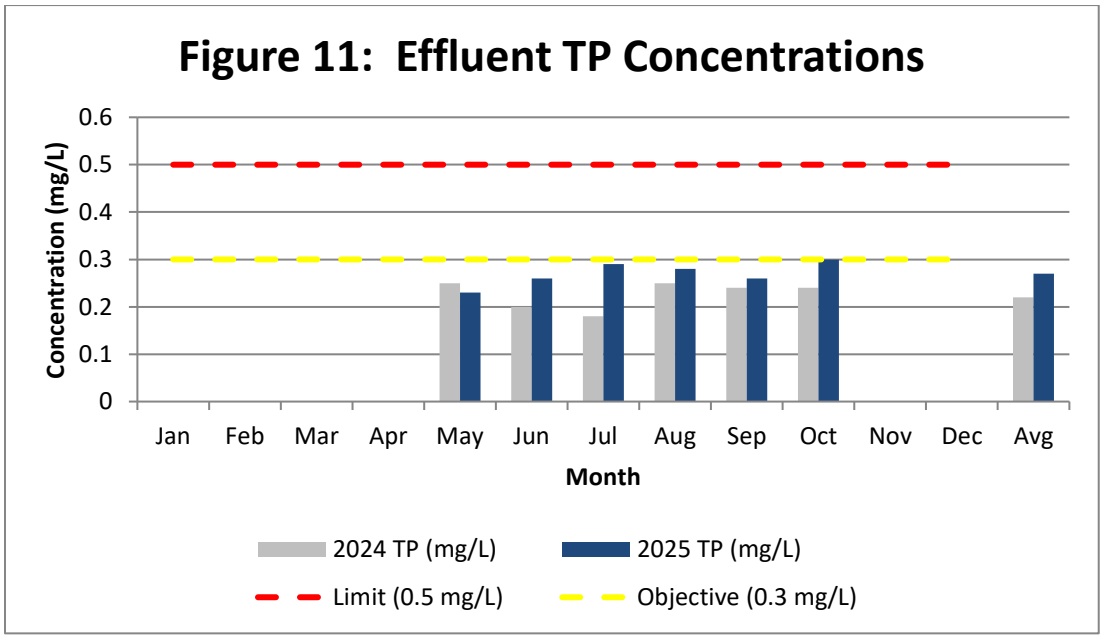
In 2025, the average monthly effluent TSS concentration was 2.4 mg/L, which is a 12% increase from 2024. The limit and objective were met throughout the year. Refer to Figure 10 for a comparison of 2025 monthly effluent TSS concentrations to 2024 concentrations.

Figure 10: *Effluent TSS Concentrations*



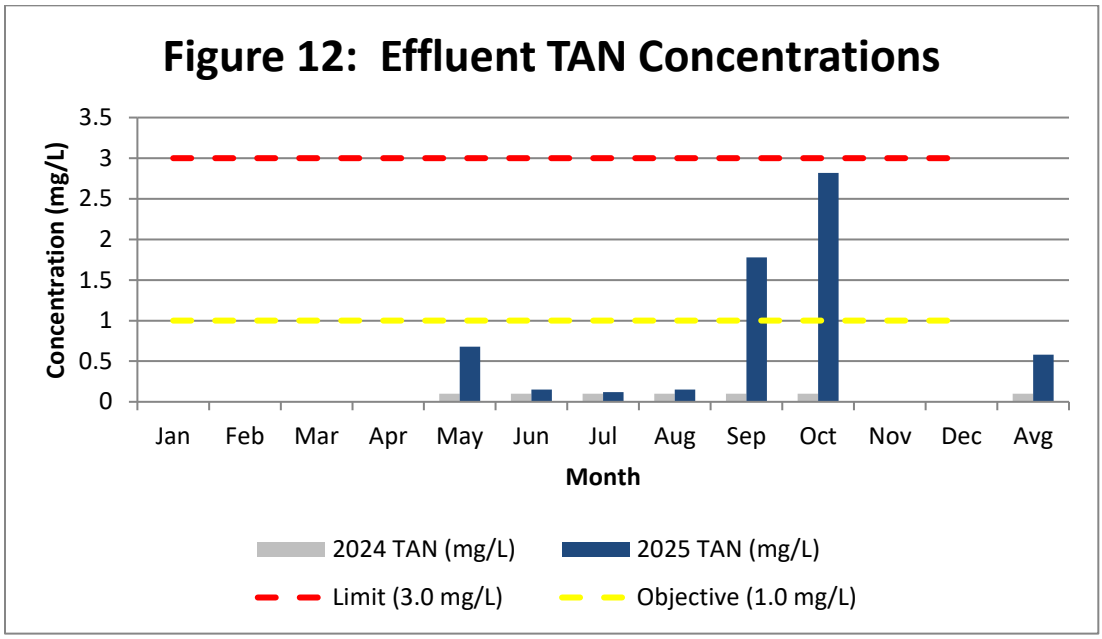
In 2025, the average monthly effluent TP concentration was 0.27 mg/L, which is a 22% increase from the 2024 value. The limit and objective were met throughout 2025. Refer to Figure 11 for a comparison of 2025 monthly effluent TP concentrations to 2024 concentrations.

Figure 11: *Effluent TP Concentrations*



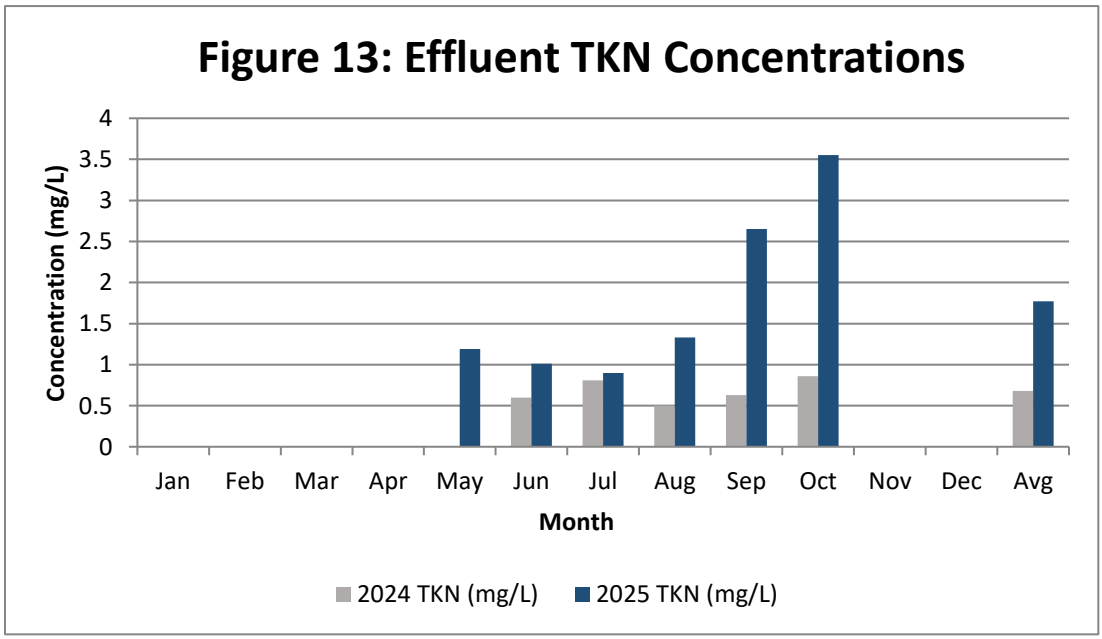
In 2025, the average monthly effluent TAN concentration was 0.58 mg/L, representing a 480% increase from 2024. While the TAN limit was achieved throughout the year, the objective was exceeded in September and October due to low lagoon levels. Refer to Figure 12 for a comparison of the 2025 monthly effluent TAN concentrations to those from 2024.

Figure 12: *Effluent TAN Concentrations*



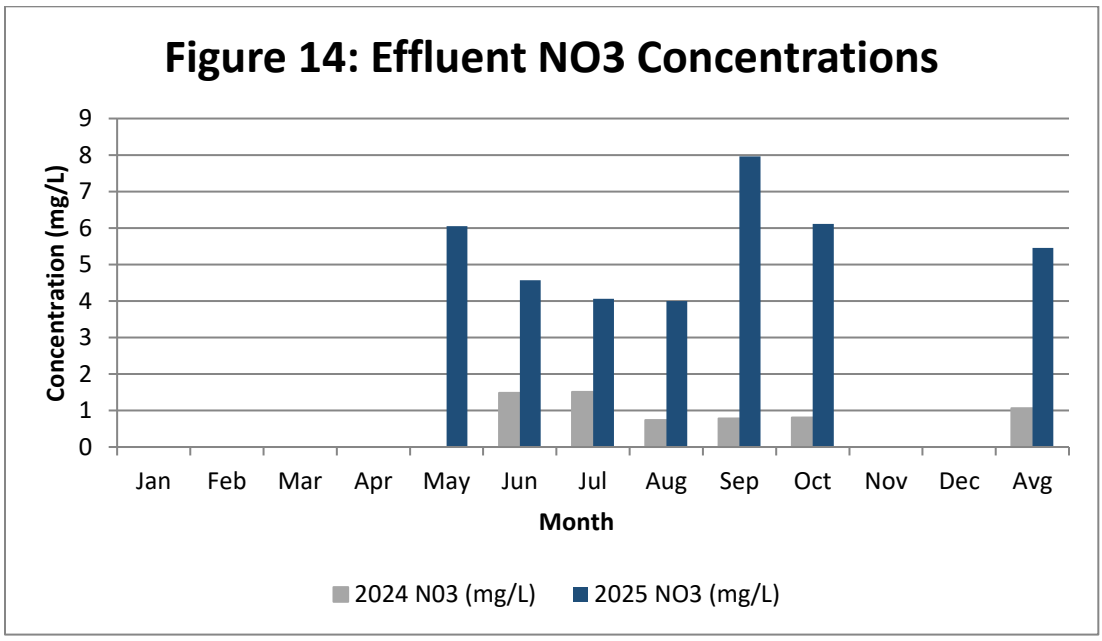
In 2025, the average monthly effluent TKN concentration was 1.77 mg/L, which is a 98% increase from last year. There is no objective or limit for TKN. Refer to Figure 13 for 2025 concentrations compared to 2024.

Figure 13: *Effluent TKN Concentrations*



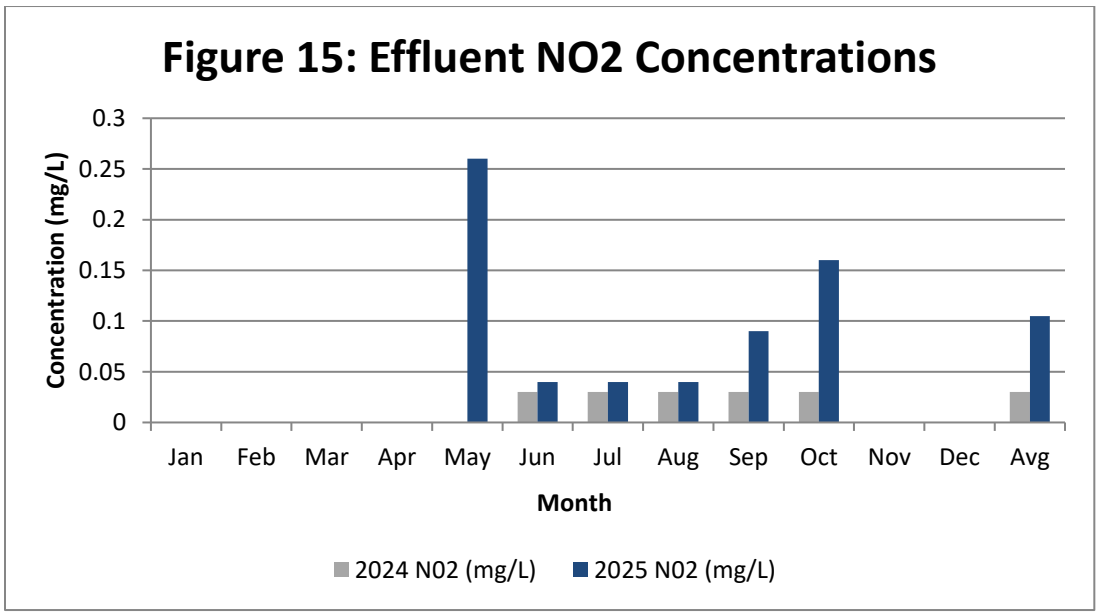
In 2025, the average monthly effluent NO_3 concentration was 5.5 mg/L, which is 414%. There is no objective or limit for NO_3 for these parameters. NO_3 concentrations are used to determine the effectiveness of the nitrification process. Refer to Figure 14 for 2025 NO_3 concentrations compared to 2024.

Figure 14: *Effluent NO_3 Concentrations*



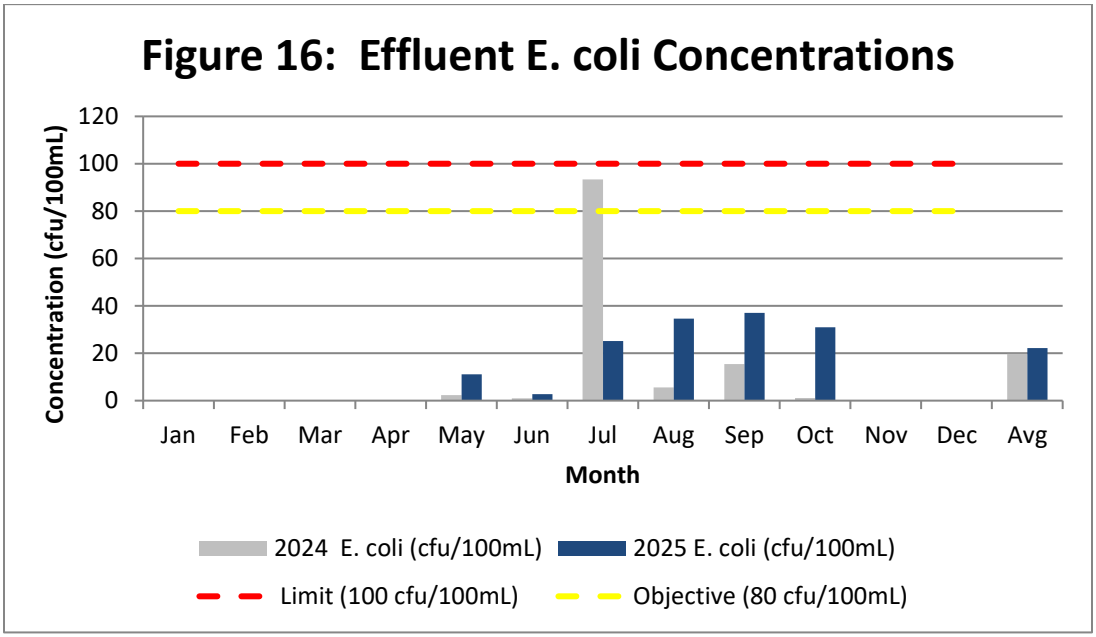
In 2025, the average monthly effluent NO_2 concentration was 0.1 mg/L, which is a 250% increase from 2024. There is no objective or limit for NO_2. NO_2 is used to determine the effectiveness of the nitrification process. Refer to Figure 15 for 2025 NO_2 concentrations compared to 2024.

Figure 15: *Effluent NO_2 Concentrations*



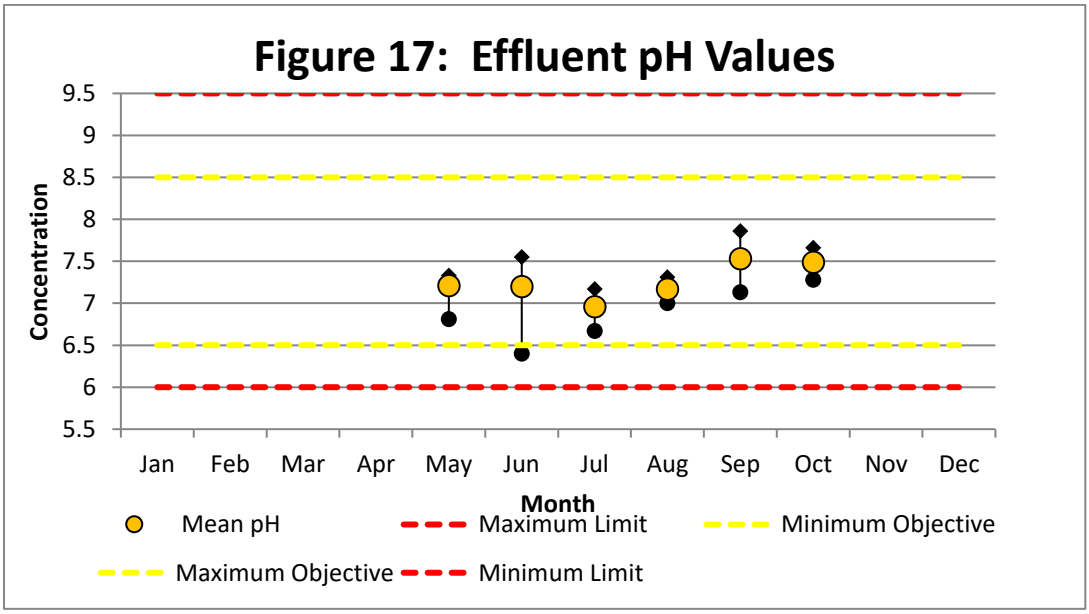
In 2025, the monthly effluent E. coli geometric mean concentration was 22 mpn/100 mL, representing a 12% increase from 2024. This rise was driven by consistently higher monthly E. coli results, in which the cause remains unknown. Despite the elevated concentrations, both the objective and the regulatory limit were achieved throughout the year. Refer to Figure 16 for a comparison of 2025 monthly effluent E. coli geometric mean concentrations with those from 2024.

Figure 16: *Effluent E. coli Concentrations*



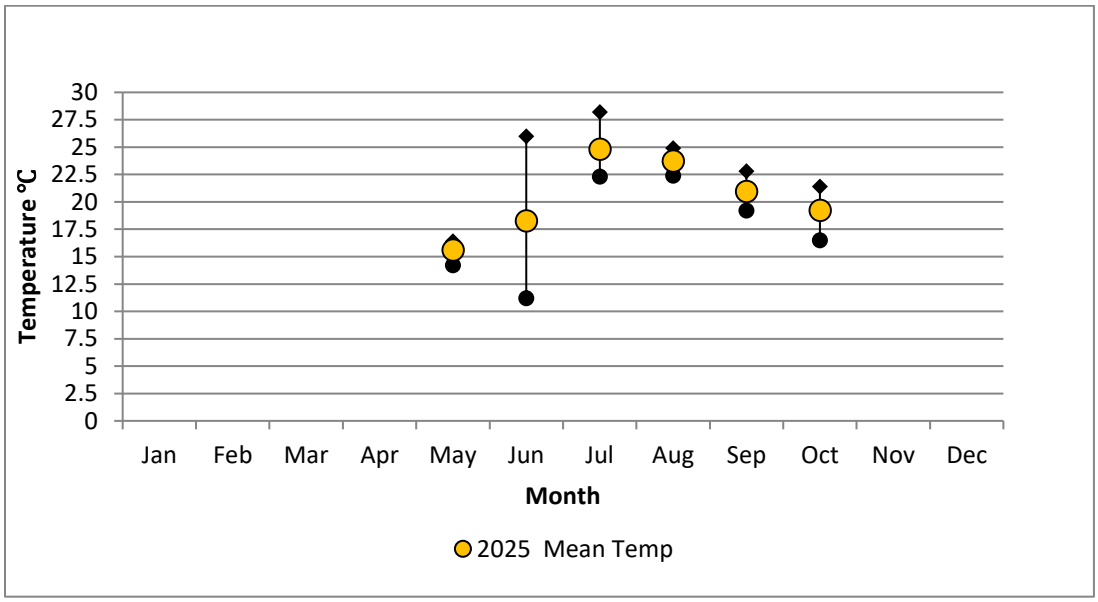
In 2025, effluent pH values ranged from 6.4 to 7.8. All objectives and limits were met throughout the year, with the exception of June, when the pH dropped below the objective. For more details refer to Summary of Efforts Made to Achieve Design Objectives Refer to Figure 17 for a comparison of 2025 monthly effluent pH values against the applicable objectives and limits.

Figure 17: *Effluent pH Values*



In 2025, effluent temperatures ranged from 11.2 °C to 28.2 °C. There are no objectives or limits for temperature. Refer to Figure 18 for monthly effluent temperature values in 2025.

Figure 18: *Effluent Temperatures*



Average waste loadings for 2025 were calculated for $CBOD_5$, TSS, TP, and TAN. No loading limits were exceeded during the reporting period. Refer to Table 1 for details.

Table 1: *Average Waste Loadings in 2025*

Effluent Parameter	Average Waste Loading Limit (kg/d)	2025 Loading (kg/d)
$CBOD_5$	9.8	1.60
Total Suspended Solids	9.8	1.85
Total Phosphorus	0.49	0.21
Total Ammonia Nitrogen	2.94	0.73

Deviations from Monitoring Schedule

Deviations from the 2025 sample schedule are outlined in Table 2. Refer to Appendix C for the 2026 sampling schedule.

Table 2: *Summary of Deviations from Monitoring Schedule*

Scheduled Date	Collected Date	Reason for Deviation
June 3	June 5	Discharge re-started June 3 after period of ISF rest/maintenance
July 22	July 24	Operator scheduling conflict

Effluent Quality Assurance

Effluent quality assurance is evaluated by monitoring parameters and changes in the lagoons. Operational staff monitor plant performance by conducting in-house tests on dissolved oxygen, pH, and temperature. Staff also monitor and record chemical dosages and any adverse observations in the lagoon cells. Data collected from these tests and sample results provide valuable information to the operators to make the appropriate adjustments in the treatment process and take corrective actions before the plant reaches its effluent limits.

Summary of Efforts Made to Achieve Design Objectives

Design objectives were not exceeded more then 50% of the time in 2025 and there were no trends in deterioration of final effluent quality. The average influent flow has not exceeded 80% of the rated capacity. Given there were no effluent limit exceedances in 2025, no investigation nor contingency measures were taken in response. Refer to Table 3 for details on the three objective exceedances reported in 2025.

Table 3: *Summary of Objective Exceedance*

Month	Parameter	Concentration (mg/L)	Objective (mg/L)
June	pH	6.4	6.5
September	TAN	1.78	1
October	TAN	2.82	1

Operating Problems and Corrective Actions

In 2025 there were no operating problems that occurred at the Hensall Lagoon or in the collections system.

Capital and major maintenance recommendations have been submitted by OCWA to the Municipality of Bluewater to address ongoing maintenance requirements for the collection system and sewage lagoons to continue to produce high quality effluent. Items included on the list for 2025 are:

- Recommended to install generator at Lagoon
- Lagoon SPS replacement
- Install auto sample for lagoon effluent
- Main SPS pump rebuild/repair

Maintenance Activities

Preventative and corrective maintenance is assigned and monitored within the Workplace Management System (WMS) program. Refer to Appendix A for the 2025 maintenance summary. Refer to Table 4 for a list of repairs and replacements that occurred in 2025.

Table 4: *Major Maintenance in 2025*

Major Maintenance Wastewater
Replaced float in filter chamber – Lagoon
Replaced both air valves in filter valve chamber - Lagoon

Major Maintenance Wastewater
Sewer flushing completed in the collection system

Calibration Records

Pierce Services and Solutions Inc. calibrated the influent and effluent flow meters and the wet well level sensor on June 25, 2025. Flow meters met the accuracy tolerance of being within 15% of the actual flow rate. Operational staff complete routine pH meter calibrations and verifications. Refer to Appendix B for 2025 Calibration Records.

Sludge Generation

In 2025, the Hensall Sewage Lagoon generated approximately 161 m^3 of sludge. There was no sludge removed from the system in 2025. It is estimated that approximately 170 m^3 of sludge will be generated in 2026. Refer to Table 5 below for the approximate sludge volumes over past five-year period.

Table 5: *Sludge Volumes over a Five-Year Interval*

Hensall Lagoon	2021 Sludge Volume (m^3)	2022 Sludge Volume (m^3)	2023 Sludge Volume (m^3)	2024 Sludge Volume (m^3)	2025 Sludge Volume (m^3)
Total (Cells 1-3)	22 468	22 616	22 768	22 925	23 086

Complaints

There were no complaints received for the Hensall Sewage Lagoon or WWC system in 2025.

Bypass, Overflows, Spills and Abnormal Discharge Events

The ECA requires additional daily sampling during any bypass, overflow, or spill event. On December 28th, 2025 an overflow occurred at the Hensall SPS due to a significant rain and snowmelt event. All reporting was completed in accordance with the CLI-ECA. Samples were collected, and the discharged volume was estimated at 216 m^3. No adverse effects were observed.

Summary of Efforts made to achieve conformance with F-5-1

The Hensall Lagoon System consists of three (3) anaerobic lagoon cells. The facility is designed to discharge treated lagoon effluent between April 16th and November 30th, during the winter months the lagoons operate as storage. Alum is continuously dosed into the influent entering cell 1 to enhance solids settling and phosphorus removal. The treatment components are capable of producing effluent quality that exceeds the effluent design objectives specified in Procedure F-5-1. The Hensall Lagoons are required to achieve higher effluent quality standards than the effluent guideline criteria as specified in the ECA.

The Municipality of Bluewater has a separated collection system, therefore a Pollution Prevention Control Program is not required to be established or maintained.

At the Hensall SPS there is a designed overflow which serves as protection against basement flooding, and damage to equipment/property. It has been recommended that the SPS pump rebuilds/replacements and SPS float system be upgraded in 2026. These projects are recommended to be undertaken to reduce and/or eliminate future overflows, bypasses or spills.

Notice of Modification to the Works

There were no 'Notice of Modification to Sewage Works' forms completed in 2025.

Alterations to the Wastewater Collection System

No alterations were completed in the collection system which would have posed any significant threat to the drinking water systems in 2025.

Additional Information the Water Supervisor Requires

No additional information requests have been made.

Appendix A

Maintenance Summary

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Workorder Summary Report

Report Start Date: Jan 1, 2025 12:00 AM

Report End Date: Dec 31, 2025 11:59 PM

Location: 5695-WLHN,5695-WLHN-P,5695-WLHN-F,5695-WLHN-P-HW,5695-WLHN-F-HV,5695-WLHN-P-PT,5695-WLHN-F-EF,5695-WLHN-P-PC,5695-WLHN-P-PI,5695-WLHN-F-PG,5695-WLHN-P-ST,5695-SPRI

Work Order Type: PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4287903	0000156286	PANEL ALARM/ DIALER 01 PS	5695, Richmond Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer 01 Hensall PS Testing (1m) 5695	CLOSE	1/1/25 12:00 AM	1/7/25 01:30 PM	1/7/25 01:30 PM	Tested generator,received alarms -
4288434	0000249165	MCC - 01 HENSALL RICHMOND PS	5695, Richmond Pumping Station	PM	Refurbish/ Replace/Repair	1	YEARS	MCC Hensall PS Insp/Service (1y/ 3y) 5695	CLOSE	1/1/25 12:00 AM	1/17/25 10:11 AM	1/17/25 10:11 AM	MCC Hensall PS Insp/Service (1y/ 3y) 5695 - • opened cabinet doors and visually inspect the MCC components. • Checked for loose connections and signs of overheating. • Manually operated all circuit breakers. • Inspected main contacts on all motor controllers. • Cleaned the cabinet with a soft brush, vacuum and lint free cloth.
4288437	0000249176	PANEL ALARM/ DIALER 01	5695, Hensall WWL & CS, Process, Process Control & Monitoring	PM	Inspection	1	MONTHS	Alarm Dialer 01 Hensall LagoonTesting (1m) 5695	CLOSE	1/1/25 12:00 AM	1/6/25 01:55 PM	1/6/25 01:55 PM	Tested alum room flood alarm - Area power outage -
4288765	0000249187	MCC - 02 HENSALL LAGOON	5695, Hensall WWL & CS, Process, Process Control & Monitoring	PM	Refurbish/ Replace/Repair	1	YEARS	MCC Hensall Lagoons Insp/Service (1y/3y) 5695	CLOSE	1/1/25 12:00 AM	1/17/25 10:13 AM	1/17/25 10:13 AM	MCC Hensall Lagoons Insp/Service (1y/3y) 5695 - • opened cabinet doors and visually inspect the MCC components. • Checked for loose connections and signs of overheating. • Manually operated all circuit breakers. • Inspected main contacts on all motor controllers. • Cleaned the cabinet with a soft brush, vacuum and lint free cloth.
4304991			5695, Hensall WWL & CS	PM	Refurbish/ Replace/Repair	1	MONTHS	Engine Diesel Hensall Lift PS Insp/ Test (1m) 5695	CLOSE	1/1/25 12:00 AM	1/7/25 01:36 PM	1/7/25 01:36 PM	Generator monthly test -

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Workorder Summary Report

Report Start Date: Jan 1, 2025 12:00 AM

Report End Date: Dec 31, 2025 11:59 PM

Location: 5695-WLHN,5695-WLHN-P,5695-WLHN-F,5695-WLHN-P-HW,5695-WLHN-F-HV,5695-WLHN-P-PT,5695-WLHN-F-EF,5695-WLHN-P-PC,5695-WLHN-P-PI,5695-WLHN-F-PG,5695-WLHN-P-ST,5695-SPRI

Work Order Type: PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4333961			5695, Hensall WWL & CS, Facility	PM	Compliance	1	YEARS	RP03 Annual Report ECA (1y) 5695	CLOSE	1/7/25 12:00 AM	3/31/25 02:13 PM	3/31/25 02:13 PM	Completed, submitted to MECP and Client -
4335125			5695, Hensall WWL & CS, Facility	PM	Compliance	1	YEARS	WSER Quarterly Reporting (1y) 5695	CLOSE	1/12/25 12:00 AM	1/22/25 01:10 PM	1/22/25 01:10 PM	Completed WSER Reporting -
4343779	0000156286	PANEL ALARM/ DIALER 01 PS	5695, Richmond Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer 01 Hensall PS Testing (1m) 5695	CLOSE	2/1/25 12:00 AM	2/14/25 06:26 PM	2/14/25 06:26 PM	Area power outage call -
4344232	0000249176	PANEL ALARM/ DIALER 01	5695, Hensall WWL & CS, Process, Process Control & Monitoring	PM	Inspection	1	MONTHS	Alarm Dialer 01 Hensall LagoonTesting (1m) 5695	CLOSE	2/1/25 12:00 AM	2/7/25 07:29 AM	2/7/25 07:29 AM	Power fail -Area wide power outage
4356868			5695, Hensall WWL & CS	PM	Refurbish/ Replace/Repair	1	MONTHS	Engine Diesel Hensall Lift PS Insp/ Test (1m) 5695	CLOSE	2/1/25 12:00 AM	2/14/25 06:28 PM	2/14/25 06:28 PM	Area power outage -
4379553	0000249166	METER FLOW FIT-111 RAW SEWAGE HENSALL RICHMOND PS	5695, Richmond Pumping Station	PM	Calibration	1	YEARS	Meter Flow Calibration (1y) 6676	CLOSE	3/22/25 12:00 AM	8/12/25 01:04 PM	8/12/25 01:04 PM	Completed with Greg pierce in june - I was with greg
4387592	0000249167	METER LEVEL LIT-01 WET WELL HENSALL RICHMOND PS	5695, Richmond Pumping Station	PM	Calibration	1	YEARS	Meter Level Insp/Service (1y) 5695	CLOSE	3/1/25 12:00 AM	8/12/25 01:49 PM	8/12/25 01:49 PM	Completed with Greg in June -
4387597	0000156286	PANEL ALARM/ DIALER 01 PS	5695, Richmond Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer 01 Hensall PS Testing (1m) 5695	CLOSE	3/1/25 12:00 AM	3/28/25 03:31 PM	3/28/25 03:31 PM	Hensall SPS Alarm Testing - • "Generator Running" alarm called on call phone as it should during monthly generator test
4388055	0000249176	PANEL ALARM/ DIALER 01	5695, Hensall WWL & CS, Process, Process Control & Monitoring	PM	Inspection	1	MONTHS	Alarm Dialer 01 Hensall LagoonTesting (1m) 5695	CLOSE	3/1/25 12:00 AM	3/17/25 10:10 AM	3/17/25 10:10 AM	Set off alum flood alarm -
4401512			5695, Hensall WWL & CS	PM	Refurbish/ Replace/Repair	1	MONTHS	Engine Diesel Hensall Lift PS Insp/ Test (1m) 5695	CLOSE	3/1/25 12:00 AM	3/28/25 03:33 PM	3/28/25 03:33 PM	Hensall SPS Monthly Gen. Test - • Completed Hensall SPS monthly generator test
4434437	0000156286	PANEL ALARM/ DIALER 01 PS	5695, Richmond Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer 01 Hensall PS Testing (1m) 5695	CLOSE	4/1/25 12:00 AM	4/3/25 07:59 PM	4/3/25 07:59 PM	complete -

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Workorder Summary Report

Report Start Date: Jan 1, 2025 12:00 AM

Report End Date: Dec 31, 2025 11:59 PM

Location: 5695-WLHN,5695-WLHN-P,5695-WLHN-F,5695-WLHN-P-HW,5695-WLHN-F-HV,5695-WLHN-P-PT,5695-WLHN-F-EF,5695-WLHN-P-PC,5695-WLHN-P-PI,5695-WLHN-F-PG,5695-WLHN-P-ST,5695-SPRI

Work Order Type: PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4434939	0000249176	PANEL ALARM/ DIALER 01	5695, Hensall WWL & CS, Process, Process Control & Monitoring	PM	Inspection	1	MONTHS	Alarm Dialer 01 Hensall LagoonTesting (1m) 5695	CLOSE	4/1/25 12:00 AM	4/3/25 08:04 PM	4/3/25 08:04 PM	complete -
4450903			5695, Hensall WWL & CS	PM	Refurbish/ Replace/Repair	1	MONTHS	Engine Diesel Hensall Lift PS Insp/ Test (1m) 5695	CLOSE	4/1/25 12:00 AM	4/3/25 08:08 PM	4/3/25 08:08 PM	complete -
4459605			5695, Hensall WWL & CS	PM	Inspection	6	MONTHS	Air Valve Insp/Pump Out (6m) 5695	COMP	4/1/25 12:00 AM	1/14/26 02:27 PM	1/14/26 02:27 PM	Complete -
4495129	0000156286	PANEL ALARM/ DIALER 01 PS	5695, Richmond Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer 01 Hensall PS Testing (1m) 5695	CLOSE	5/1/25 12:00 AM	6/4/25 11:57 AM	6/4/25 11:57 AM	Complete -
4495620	0000249176	PANEL ALARM/ DIALER 01	5695, Hensall WWL & CS, Process, Process Control & Monitoring	PM	Inspection	1	MONTHS	Alarm Dialer 01 Hensall LagoonTesting (1m) 5695	CLOSE	5/1/25 12:00 AM	6/4/25 11:59 AM	6/4/25 11:59 AM	Complete -
4510843			5695, Hensall WWL & CS	PM	Refurbish/ Replace/Repair	1	MONTHS	Engine Diesel Hensall Lift PS Insp/ Test (1m) 5695	CLOSE	5/1/25 12:00 AM	6/4/25 12:08 PM	6/4/25 12:08 PM	Complete -
4528019			5695, Richmond Pumping Station	PM	Refurbish/ Replace/Repair	1	YEARS	Overflow FAC 1 Hensall Main SPS Inspection (1y) 5695	CLOSE	5/1/25 12:00 AM	7/9/25 11:02 AM	7/9/25 11:02 AM	Overflow goes to underground drain - • Sign is installed
4561837	0000156286	PANEL ALARM/ DIALER 01 PS	5695, Richmond Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer 01 Hensall PS Testing (1m) 5695	CLOSE	6/1/25 12:00 AM	7/2/25 10:36 AM	7/2/25 10:36 AM	complete -
4561842	0000249179	PUMP SUBMERSIBLE 01 FILTER	5695, Hensall WWL & CS, Process, Secondary Treatment	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Subm 01 Filter Hensall Lagoon Insp/Service (1y) 5695	CLOSE	6/1/25 12:00 AM	7/24/25 06:45 AM	7/24/25 06:45 AM	Pump Subm 01 Filter Hensall Lagoon Insp/Service (1y) 5695 - • tightened all electrical connections 5695
4561851	0000249180	PUMP SUBMERSIBLE 02 FILTER	5695, Hensall WWL & CS, Process, Secondary Treatment	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Subm 02 Hensall Lagoon Filter Insp/Service (1y) 5695	CLOSE	6/1/25 12:00 AM	7/24/25 06:48 AM	7/24/25 06:48 AM	Pump Subm 02 Hensall Lagoon Filter Insp/Service (1y) 5695 - • did running checks • tightened all electrical connections Pump Subm 02 Hensall Lagoon Filter Insp/Service (1y) 5695 - • I1 25amp • I2 26amp • I3 25amp
4562482	0000249176	PANEL ALARM/ DIALER 01	5695, Hensall WWL & CS, Process, Process Control & Monitoring	PM	Inspection	1	MONTHS	Alarm Dialer 01 Hensall LagoonTesting (1m) 5695	CLOSE	6/1/25 12:00 AM	7/2/25 11:03 AM	7/2/25 11:03 AM	complete -

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Workorder Summary Report

Report Start Date: Jan 1, 2025 12:00 AM

Report End Date: Dec 31, 2025 11:59 PM

Location: 5695-WLHN,5695-WLHN-P,5695-WLHN-F,5695-WLHN-P-HW,5695-WLHN-F-HV,5695-WLHN-P-PT,5695-WLHN-F-EF,5695-WLHN-P-PC,5695-WLHN-P-PI,5695-WLHN-F-PG,5695-WLHN-P-ST,5695-SPRI

Work Order Type: PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4578384			5695, Hensall WWL & CS	PM	Refurbish/ Replace/Repair	1	MONTHS	Engine Diesel Hensall Lift PS Insp/ Test (1m) 5695	CLOSE	6/1/25 12:00 AM	7/4/25 02:54 PM	7/4/25 02:54 PM	
4625019	0000156286	PANEL ALARM/ DIALER 01 PS	5695, Richmond Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer 01 Hensall PS Testing (1m) 5695	CLOSE	7/1/25 12:00 AM	7/4/25 02:56 PM	7/4/25 02:56 PM	
4625535	0000249176	PANEL ALARM/ DIALER 01	5695, Hensall WWL & CS, Process, Process Control & Monitoring	PM	Inspection	1	MONTHS	Alarm Dialer 01 Hensall LagoonTesting (1m) 5695	CLOSE	7/1/25 12:00 AM	7/4/25 03:01 PM	7/4/25 03:01 PM	
4639148			5695, Hensall WWL & CS	PM	Refurbish/ Replace/Repair	1	MONTHS	Engine Diesel Hensall Lift PS Insp/ Test (1m) 5695	CLOSE	7/2/25 12:00 AM	7/4/25 03:03 PM	7/4/25 03:03 PM	
4669670	0000156286	PANEL ALARM/ DIALER 01 PS	5695, Richmond Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer 01 Hensall PS Testing (1m) 5695	CLOSE	8/1/25 12:00 AM	8/7/25 01:15 PM	8/7/25 01:15 PM	Tested alarm -
4670197	0000249176	PANEL ALARM/ DIALER 01	5695, Hensall WWL & CS, Process, Process Control & Monitoring	PM	Inspection	1	MONTHS	Alarm Dialer 01 Hensall LagoonTesting (1m) 5695	CLOSE	8/1/25 12:00 AM	8/7/25 01:16 PM	8/7/25 01:16 PM	Tested alarm -
4682794			5695, Hensall WWL & CS	PM	Refurbish/ Replace/Repair	1	MONTHS	Engine Diesel Hensall Lift PS Insp/ Test (1m) 5695	CLOSE	8/1/25 12:00 AM	8/7/25 09:05 AM	8/7/25 10:05 AM	Running generator - Tested generator for month of august
4716873	0000156286	PANEL ALARM/ DIALER 01 PS	5695, Richmond Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer 01 Hensall PS Testing (1m) 5695	CLOSE	9/1/25 12:00 AM	9/12/25 02:32 PM	9/12/25 02:32 PM	Hensall generator test -
4717411	0000249176	PANEL ALARM/ DIALER 01	5695, Hensall WWL & CS, Process, Process Control & Monitoring	PM	Inspection	1	MONTHS	Alarm Dialer 01 Hensall LagoonTesting (1m) 5695	CLOSE	9/1/25 12:00 AM	9/12/25 02:35 PM	9/12/25 02:35 PM	Monthly test -
4732058			5695, Hensall WWL & CS	PM	Refurbish/ Replace/Repair	1	YEARS	Engine Diesel Hensall Lift PS Insp/ Service (1y) 5695	CLOSE	9/1/25 12:00 AM	11/4/25 12:30 PM	11/4/25 12:30 PM	Completed by sommers Technician -
4732097			5695, Hensall WWL & CS	PM	Refurbish/ Replace/Repair	1	MONTHS	Engine Diesel Hensall Lift PS Insp/ Test (1m) 5695	CLOSE	9/1/25 12:00 AM	11/4/25 12:31 PM	11/4/25 12:31 PM	complete -
4732350			5695, Hensall WWL & CS	PM	Refurbish/ Replace/Repair	1	YEARS	Filter Sand 01 Insp/ Service (1y) 5695	CLOSE	9/1/25 12:00 AM	11/4/25 12:35 PM	11/4/25 12:35 PM	complete -
4732353			5695, Hensall WWL & CS	PM	Refurbish/ Replace/Repair	1	YEARS	Filter Sand 02 Insp/ Service (1y) 5695	CLOSE	9/1/25 12:00 AM	11/4/25 12:36 PM	11/4/25 12:36 PM	complete -
4732362			5695, Hensall WWL & CS	PM	Refurbish/ Replace/Repair	1	YEARS	Lagoon 01 Insp/Service (1y) 5695	CLOSE	9/1/25 12:00 AM	11/4/25 12:38 PM	11/4/25 12:38 PM	complete -
4732365			5695, Hensall WWL & CS	PM	Refurbish/ Replace/Repair	1	YEARS	Lagoon 02 Insp/Service (1y) 5695	CLOSE	9/1/25 12:00 AM	11/4/25 12:39 PM	11/4/25 12:39 PM	complete -

ONTARIO CLEAN WATER AGENCY
AGENCE ONTARIENNE DES EAUX

Workorder Summary Report

Report Start Date: Jan 1, 2025 12:00 AM

Report End Date: Dec 31, 2025 11:59 PM

Location: 5695-WLHN,5695-WLHN-P,5695-WLHN-F,5695-WLHN-P-HW,5695-WLHN-F-HV,5695-WLHN-P-PT,5695-WLHN-F-EF,5695-WLHN-P-PC,5695-WLHN-P-PI,5695-WLHN-F-PG,5695-WLHN-P-ST,5695-SPRI

Work Order Type: PM

Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4770106	0000156286	PANEL ALARM/ DIALER 01 PS	5695, Richmond Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer 01 Hensall PS Testing (1m) 5695	CLOSE	10/1/25 12:00 AM	11/26/25 09:46 PM	11/26/25 09:46 PM	Tested in october -
4770628	0000249176	PANEL ALARM/ DIALER 01	5695, Hensall WWL & CS, Process, Process Control & Monitoring	PM	Inspection	1	MONTHS	Alarm Dialer 01 Hensall LagoonTesting (1m) 5695	CLOSE	10/1/25 12:00 AM	11/26/25 09:51 PM	11/26/25 09:51 PM	Tested month of october -
4785226			5695, Hensall WWL & CS	PM	Refurbish/ Replace/Repair	1	MONTHS	Engine Diesel Hensall Lift PS Insp/ Test (1m) 5695	CLOSE	10/1/25 12:00 AM	11/26/25 10:03 PM	11/26/25 10:03 PM	Completed month of October -
4794645			5695, Hensall WWL & CS	PM	Inspection	6	MONTHS	Air Valve Insp/Pump Out (6m) 5695	CLOSE	10/1/25 12:00 AM	12/16/25 02:13 PM	12/16/25 02:13 PM	Complete -
4802596			5695, Hensall WWL & CS, Facility	PM	Inspection	1	YEARS	Well Inspection Hensall Lagoons (1y) 5695	CLOSE	10/1/25 12:00 AM	12/16/25 02:18 PM	12/16/25 02:18 PM	Complete -
4824189	0000156286	PANEL ALARM/ DIALER 01 PS	5695, Richmond Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer 01 Hensall PS Testing (1m) 5695	CLOSE	11/1/25 12:00 AM	12/8/25 09:05 AM	12/8/25 09:05 AM	Tested month of November -
4824672	0000249176	PANEL ALARM/ DIALER 01	5695, Hensall WWL & CS, Process, Process Control & Monitoring	PM	Inspection	1	MONTHS	Alarm Dialer 01 Hensall LagoonTesting (1m) 5695	CLOSE	11/1/25 12:00 AM	11/27/25 07:51 PM	11/27/25 07:51 PM	Area power outage caused alarm -
4837019			5695, Hensall WWL & CS	PM	Refurbish/ Replace/Repair	1	MONTHS	Engine Diesel Hensall Lift PS Insp/ Test (1m) 5695	CLOSE	11/1/25 12:00 AM	11/27/25 07:57 PM	11/27/25 07:57 PM	Tested generator -
4869361	0000156286	PANEL ALARM/ DIALER 01 PS	5695, Richmond Pumping Station	PM	Inspection	1	MONTHS	Alarm Dialer 01 Hensall PS Testing (1m) 5695	CLOSE	12/1/25 12:00 AM	12/16/25 02:26 PM	12/16/25 02:26 PM	Complete -
4869886	0000249176	PANEL ALARM/ DIALER 01	5695, Hensall WWL & CS, Process, Process Control & Monitoring	PM	Inspection	1	MONTHS	Alarm Dialer 01 Hensall LagoonTesting (1m) 5695	CLOSE	12/1/25 12:00 AM	12/16/25 02:27 PM	12/16/25 02:27 PM	Complete -
4882762			5695, Hensall WWL & CS	PM	Refurbish/ Replace/Repair	1	MONTHS	Engine Diesel Hensall Lift PS Insp/ Test (1m) 5695	CLOSE	12/1/25 12:00 AM	12/16/25 02:29 PM	12/16/25 02:29 PM	Complete -

Appendix B

2025 Calibration Records

Pierce Services
& Solutions Inc.

45 Wilton Road
Guelph, ON N1E 7L6

Phone: 519.820.4853

Flowmeter Report

Verification: X Calibration:

Client: OCWA Bluewater
Description: Mag Flow Meter
Manufacturer: Endress Hauser
Model: Promag
Inventory No.: 249166

Location: Hensall Lift Station
Date: 09-Jun-25
Checked By: Greg Pierce
Serial No.: JA02691600

Velocity	Input	As Found	As Left	Pass/Fail
0 m/s	0.00 l/s	0.00 l/s	0.00 l/s	Pass
1.465 m/s	26.72 l/s	26.72 l/s	26.72 l/s	Pass
5.65 m/s	100.00 l/s	100.00 l/s	100.00 l/s	Pass

Confirmed Run Mode: X Returned to service: X

Service Comments:

Flowmeter Information

Flow Unit: l/s
Meter Size: 150 mm
Pipe Material: Stainless Steel
Liner Material: PU
Range: 0-100 l/s
Tag Number: FIT 100

Comments:
Verification of original calibration

Signature:
Greg Pierce, CCST

Pierce Services & Solutions Inc.

Alphabetical Parameter Listing Milltronics 100/200

Tag # Wet Well Level Hensall Lift SPS
Date: June 09, 2025

Parameter #	Parameter Description	Parameter Value	Value Description	Relay #
P001	Operation	1	Level measurement	
P002	Material	1	Liquid surface	
P003	Process Speed	2	Medium (1m/min)	
P004	Transducer	104	XPS 10	
P005	Units	1	Meters	
P006	Empty	2.743	Transducer to base	
P007	Span	2.682	Maximum reading	
P065	Reading Override Value	5.00	Relay Value Inserted	
P111	Pump Fixed Duty Setting	1	Pump Fixed Duty Setting	1
P112	Relay on Level	0.950	Meters	1
P113	Relay off Level	0.100	Meters	1
P309	Run Time	15954	Hours	1
P111	Pump Fixed Duty Setting	1	Pump Fixed Duty Setting	2
P112	Relay on Level	1.550	Meters	2
P113	Relay off Level	1.100	Meters	2
P309	Run Time	2.3	Hours	2
P111	Pump Fixed Duty Setting	1	Pump Fixed Duty Setting	3
P112	Relay on Level	1.650	Meters	3
P113	Relay off Level	1.200	Meters	3
P309	Run Time	2	Hours	3
P111	Loss of Echo	6		4
P112	Relay on Level		Meters	4
P113	Relay off Level		Meters	4
P309	Run Time		Hours	4
P111	Loss of Echo	1		5
P112	Relay on Level	1.820		5
P113	Relay off Level	1.750		5
P309	Run Time			5
P340	Date of Manufacture	9:10:22		
P341	Run Time	4641		
P342	Start Ups	171		
P650	Offset Calibration			
P651	Sound Calibration			
P652	Offset Correction			
P653	Velosity	341.8		
P654	Velosity at 20 C	344.1		
P680	Temperature Source Fixed	1		
P791	Bus Error Count	8		
P802	Transducer Submergence	0		
	%	44.49%		
	Echo	100		
	Temp	16 C		
	mA	11.17 mA		
	Level	1.19 m		

Site Location: Hensall SPS

Pierce Services
& Solutions Inc.

45 Wilton Road
Guelph, ON N1E 7L6

Phone: 519.820.4853

Flowmeter Report

Verification: X Calibration:

Client: OCWA Bluewater
Description: Mag Flow Meter
Manufacturer: Endress Hauser
Model: Promag W
Inventory No.:

Location: Hensall Lagoons
Date: 09-Jun-25
Checked By: Greg Pierce
Serial No.: J605281600

Volocity	Input	As Found	As Left	Pass/Fail
0 m/s	0.00 l/s	0.00 l/s	0.00 l/s	Pass
41.92 m/s	41.27l/s	41.77 l/s	41.77 l/s	Pass
2.83 m/s	200.00 l/s	200.00 l/s	200.00 l/s	Pass

Confirmed Run Mode: X Returned to service: X

Service Comments:

Flowmeter Information

Flow Unit: l/s
Meter Size: 300 mm
Pipe Material: Stainless Steel
Liner Material: PU
Range: 0-200 l/s
Tag Number: FIT 100

Comments:
Verification of original calibration

Signature:
Greg Pierce, CCST

Appendix C

2026 Sample Calendar

QEMS Ontario Clean Water Agency	Sample Schedule 2026 Hensall Sewage Treatment Plant	Rev. Date: 2025-12-08 Rev.#: 0 Pages: 1 of 12
Reviewed by: QEMS Representative	Approved by: Operations Management	

◄ December	January 2026					February ►
Sun	**Mon**	**Tue**	**Wed**	**Thu**	**Fri**	**Sat**
				1 **STAT**	**2**	3
4	**5** □ **Raw**	**6**	**7**	**8**	**9**	10
11	**12**	**13**	**14**	**15**	**16**	17
18	**19**	**20**	**21**	**22**	**23**	24
25	**26**	**27**	**28**	**29**	**30**	31

Discharge Period: April 16 to November 30

Legend	
Raw Sample:	Monthly Grab (BOD5, TSS, TP, TKN)
Final Effluent:	Twice Weekly Grab (CBOD, TSS, TAN, TP, TKN, NO3, NO2, E.coli) Twice Weekly Grab In-House (pH, Temp)
Sludge:	Prior to hauling (TS, TP, TAN, NO3, Metals)
Imported Sewage:	Grab – Every Hauler Monthly (BOD5, TSS, TP, TKN)
Well Water:	Bi-Annual Grab (E.coli, Total Coliform)

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility.

Revision History

Date	Revision #	Reason for Revision	Revision By
2025-12-08	0	Create 2026 Sampling Calendar	Katelyn Barrowcliffe

◄ January	February 2026					March ►
Sun	**Mon**	**Tue**	**Wed**	**Thu**	**Fri**	**Sat**
1	**2** □ **Raw**	**3**	**4**	**5**	**6**	7
8	**9**	**10**	**11**	**12**	**13**	14
15	**16** **STAT**	**17**	**18**	**19**	**20**	21
22	**23**	**24**	**25**	**26**	**27**	28

Discharge Period: April 16 to November 30

Legend	
Raw Sample:	Monthly Grab (BOD5, TSS, TP, TKN)
Final Effluent:	Twice Weekly Grab (CBOD, TSS, TAN, TP, TKN, NO3, NO2, E.coli) Twice Weekly Grab In-House (pH, Temp)
Sludge:	Prior to hauling (TS, TP, TAN, NO3, Metals)
Imported Sewage:	Grab – Every Hauler Monthly (BOD5, TSS, TP, TKN) **Cannot accept 6 weeks prior to discharge ending (begins 3rd week of October)**
Well Water:	Bi-Annual Grab (E.coli, Total Coliform)

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility.

Revision History

Date	Revision #	Reason for Revision	Revision By
2025-12-08	0	Create 2026 Sampling Calendar	Katelyn Barrowcliffe

◄ February	March 2026					April ►
Sun	**Mon**	**Tue**	**Wed**	**Thu**	**Fri**	**Sat**
1	**2** □ **Raw**	**3**	**4**	**5**	**6**	7
8	**9**	**10**	**11**	**12**	**13**	14
15	**16**	**17**	**18**	**19**	**20**	21
22	**23**	**24**	**25**	**26**	**27**	28
29	**30**	**31**				

Discharge Period: April 16 to November 30

Legend	
Raw Sample:	Monthly Grab (BOD5, TSS, TP, TKN)
Final Effluent:	Twice Weekly Grab (CBOD, TSS, TAN, TP, TKN, NO3, NO2, E.coli) Twice Weekly Grab In-House (pH, Temp)
Sludge:	Prior to hauling (TS, TP, TAN, NO3, Metals)
Imported Sewage:	Grab – Every Hauler Monthly (BOD5, TSS, TP, TKN) **Cannot accept 6 weeks prior to discharge ending (begins 3rd week of October)**
Well Water:	Bi-Annual Grab (E.coli, Total Coliform)

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility

Revision History

Date	Revision #	Reason for Revision	Revision By
2025-12-08	0	Create 2026 Sampling Calendar	Katelyn Barrowcliffe

QEMS Ontario Clean Water Agency	Sample Schedule 2026 Hensall Sewage Treatment Plant	Rev. Date: 2025-12-08 Rev.#: 0 Pages: 4 of 12
Reviewed by: QEMS Representative	Approved by: Operations Management	

◄ March	April 2026					May ►
Sun	**Mon**	**Tue**	**Wed**	**Thu**	**Fri**	**Sat**
			1	**2**	**3** **STAT**	4
5	**6** **STAT**	**7** □ **Raw** □ **Well Water**	**8**	**9**	**10**	11
12	**13** □ Final Effluent □ **In House Lab**	**14**	**15** □ Final Effluent □ **In House Lab**	**16**	**17**	18
19	**20** □ Final Effluent □ **In House Lab**	**21**	**22** □ Final Effluent □ **In House Lab**	**23**	**24**	25
26	**27** □ **Final Effluent** □ In House Lab	**28**	**29** □ **Final Effluent** □ In House Lab	**30**		

Discharge Period: April 16 to November 30

Legend	
Raw Sample:	Monthly Grab (BOD5, TSS, TP, TKN)
Final Effluent:	Twice Weekly Grab (CBOD, TSS, TAN, TP, TKN, NO3, NO2, E.coli) Twice Weekly Grab In-House (pH, Temp)
Sludge:	Prior to hauling (TS, TP, TAN, NO3, Metals)
Imported Sewage:	Grab – Every Hauler Monthly (BOD5, TSS, TP, TKN) **Cannot accept 6 weeks prior to discharge ending (begins 3rd week of October)**
Well Water:	Bi-Annual Grab (E.coli, Total Coliform)

Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility

Revision History

Date	Revision #	Reason for Revision	Revision By
2025-12-08	0	Create 2026 Sampling Calendar	Katelyn Barrowcliffe

QEMS Ontario Clean Water Agency	Sample Schedule 2026 Hensall Sewage Treatment Plant	Rev. Date: 2025-12-08 Rev.#: 0 Pages: 5 of 12
Reviewed by: QEMS Representative	Approved by: Operations Management	

◄ April	May 2026					June ►
Sun	**Mon**	**Tue**	**Wed**	**Thu**	**Fri**	**Sat**
					1	2
3	**4** □ **Raw** □ Final Effluent □ **In House Lab**	**5**	**6** □ Final Effluent □ **In House Lab**	**7**	**8**	9
10	**11** □ Final Effluent □ **In House Lab**	**12**	**13** □ Final Effluent □ **In House Lab**	**14**	**15**	16
17	**18** **STAT**	**19** □ Final Effluent □ **In House Lab**	**20** □ Final Effluent □ **In House Lab**	**21**	**22**	23
24 31	**25** □ **Final Effluent** □ In House Lab	**26**	**27** □ **Final Effluent** □ In House Lab	**28**	**29**	30

Discharge Period: April 16 to November 30

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Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility

Revision History

Date	Revision #	Reason for Revision	Revision By
2025-12-08	0	Create 2026 Sampling Calendar	Katelyn Barrowcliffe

◄ May	June 2026					July ►
Sun	**Mon**	**Tue**	**Wed**	**Thu**	**Fri**	**Sat**
	1 □ **Raw** □ Final Effluent □ **In House Lab**	**2**	**3** □ Final Effluent □ **In House Lab**	**4**	**5**	6
7	**8** □ Final Effluent □ **In House Lab**	**9**	**10** □ Final Effluent □ **In House Lab**	**11**	**12**	13
14	**15** □ Final Effluent □ **In House Lab**	**16**	**17** □ Final Effluent □ **In House Lab**	**18**	**19**	20
21	**22** □ Final Effluent □ **In House Lab**	**23**	**24** □ Final Effluent □ **In House Lab**	**25**	**26**	27
28	**29** □ **Final Effluent** □ In House Lab	**30** □ **Final Effluent** □ In House Lab				

Discharge Period: April 16 to November 30

Legend	
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Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility

Revision History

Date	Revision #	Reason for Revision	Revision By
2025-12-08	0	Create 2026 Sampling Calendar	Katelyn Barrowcliffe

◄ June	July 2026					August ►
Sun	**Mon**	**Tue**	**Wed**	**Thu**	**Fri**	**Sat**
			1 **STAT**	**2**	**3** □ **In House Lab**	4
5	**6** □ **Raw** □ Final Effluent □ **In House Lab**	**7**	**8** □ Final Effluent □ **In House Lab**	**9**	**10**	11
12	**13** □ Final Effluent □ **In House Lab**	**14**	**15** □ Final Effluent □ **In House Lab**	**16**	**17**	18
19	**20** □ Final Effluent □ **In House Lab**	**21**	**22** □ Final Effluent □ **In House Lab**	**23**	**24**	25
26	**27** □ **Final Effluent** □ In House Lab	**28**	**29** □ **Final Effluent** □ In House Lab	**30**	**31**	

Discharge Period: April 16 to November 30

Legend	
Raw Sample:	Monthly Grab (BOD5, TSS, TP, TKN)
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Notes: Initial on date when sample was taken. Add any additional sampling completed for the facility

Revision History

Date	Revision #	Reason for Revision	Revision By
2025-12-08	0	Create 2026 Sampling Calendar	Katelyn Barrowcliffe

◄ July	August 2026					September ►
Sun	**Mon**	**Tue**	**Wed**	**Thu**	**Fri**	**Sat**
						1
2	**3** **STAT**	**4** □ **Raw** □ Final Effluent □ **In House Lab**	**5** □ Final Effluent □ **In House Lab**	**6**	**7**	8
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16	**17** □ Final Effluent □ **In House Lab**	**18**	**19** □ Final Effluent □ **In House Lab**	**20**	**21**	22
23	**24** □ Final Effluent □ **In House Lab**	**25**	**26** □ Final Effluent □ **In House Lab**	**27**	**28**	29
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Discharge Period: April 16 to November 30

Legend	
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Revision History

Date	Revision #	Reason for Revision	Revision By
2025-12-08	0	Create 2026 Sampling Calendar	Katelyn Barrowcliffe

◄ August	September 2026					October ►
Sun	**Mon**	**Tue**	**Wed**	**Thu**	**Fri**	**Sat**
		1	**2** □ **Raw** □ Final Effluent □ **In House Lab**	**3**	**4**	5
6	**7** **STAT**	**8** □ Final Effluent □ **In House Lab**	**9** □ Final Effluent □ **In House Lab**	**10**	**11**	12
13	**14** □ Final Effluent □ **In House Lab**	**15**	**16** □ Final Effluent □ **In House Lab**	**17**	**18**	19
20	**21** □ Final Effluent □ **In House Lab**	**22**	**23** □ Final Effluent □ **In House Lab**	**24**	**25**	26
27	**28** □ **Final Effluent** □ In House Lab	**29** □ **Final Effluent** □ In House Lab	**30** **STAT**	□		

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Revision History

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2025-12-08	0	Create 2026 Sampling Calendar	Katelyn Barrowcliffe

◄ September	October 2026					November ►
Sun	**Mon**	**Tue**	**Wed**	**Thu**	**Fri**	**Sat**
				1	**2**	3
4	**5** □ **Raw** □ **Well Water** □ Final Effluent □ **In House Lab**	**6**	**7** □ Final Effluent □ **In House Lab**	**8**	**9**	10
11	**12** **STAT**	**13** □ Final Effluent □ **In House Lab**	**14** □ Final Effluent □ **In House Lab**	**15**	**16**	17
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Date	Revision #	Reason for Revision	Revision By
2025-12-08	0	Create 2026 Sampling Calendar	Katelyn Barrowcliffe

QEMS Ontario Clean Water Agency	Sample Schedule 2026 Hensall Sewage Treatment Plant	Rev. Date: 2025-12-08 Rev.#: 0 Pages: 11 of 12
Reviewed by: QEMS Representative	Approved by: Operations Management	

◄ October	November 2026					December ►
Sun	**Mon**	**Tue**	**Wed**	**Thu**	**Fri**	**Sat**
1	**2** □ **Raw** □ Final Effluent □ **In House Lab**	**3**	**4** □ Final Effluent □ **In House Lab**	**5**	**6**	7
8	**9** □ Final Effluent □ **In House Lab**	**10** □ Final Effluent □ **In House Lab**	**11** **STAT**	**12**	**13**	14
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29	**30**					

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2025-12-08	0	Create 2026 Sampling Calendar	Katelyn Barrowcliffe

QEMS Ontario Clean Water Agency	Sample Schedule 2026 Hensall Sewage Treatment Plant	Rev. Date: 2025-12-08 Rev.#: 0 Pages: 12 of 12
Reviewed by: QEMS Representative	Approved by: Operations Management	

◄ November	December 2026					January ►
Sun	**Mon**	**Tue**	**Wed**	**Thu**	**Fri**	**Sat**
		1	**2**	**3**	**4**	5
6	**7** □ Raw	**8**	**9**	**10**	**11**	12
13	**14**	**15**	**16**	**17**	**18**	19
20	**21**	**22**	**23**	**24**	**25** **STAT**	26
27	**28** **STAT**	**29**	**30**	**31**		

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Revision History

Date	Revision #	Reason for Revision	Revision By
2025-12-08	0	Create 2026 Sampling Calendar	Katelyn Barrowcliffe

Appendix D

Monitoring Data

Customized Monthly Report

From 01/01/2025 to 12/31/2025

Facility Name: HENSALL WASTEWATER TREATMENT LAGOON
Receiver: Black Creek

Facility Org Number: 5695
Facility Owner: Municipality: Municipality of Bluewater
Service Population: 1210

Works: 110000926
Facility Classification: Class 1 Wastewater Treatment
Total Design Capacity: 980 m3/day

Ontario Clean Water Agency
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Final Effluent	Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Oct 2025	Nov 2025	2025 Total	2025 Avg	2025 Max	2025 Min
Carbonaceous Biochemical Oxygen Demand: CBOD5 - mg/L															
Count	0.00	0.00	0.00	0.00	8.00	8.00	6.00	4.00	6.00	6.00	0.00	38.00			
Lab Count	0.00				8.00	8.00	6.00	4.00	6.00	6.00		38.00			
Lab Month.Max					< 2.00	< 2.00	2.00	2.00	3.00	< 2.00				3.00	
Lab Month.Mean					< 2.00	< 2.00	< 2.00	< 2.00	< 2.33	< 2.00			< 2.05		
Lab Month.Min					< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00					< 2.00
Dissolved Oxygen: DO - mg/L															
IH Edited Count	0.00				8.00	8.00	6.00	4.00	6.00	5.00		37.00			
IH Month.Max					9.59	9.86	7.82	7.31	8.24	8.37				9.86	
IH Month.Mean					8.85	8.53	6.81	5.94	6.93	7.70			7.67		
IH Month.Min					8.49	6.97	5.64	5.31	4.90	7.35					4.90
E.Coli MPN - MPN															
Count					8.00	8.00	6.00	4.00	6.00	6.00	0.00	38.00			
GMD					11.12	2.71	25.17	34.64	37.03	31.07					
Lab Count	0.00				8.00	8.00	6.00	4.00	6.00	6.00		38.00			
Lab Month.Max					548.00	20.00	107.00	96.00	326.00	579.00				579.00	
Lab Month.Mean					80.50	4.50	42.83	56.25	89.00	124.33			64.26		
Lab Month.Min					0.00	1.00	5.00	4.00	4.00	2.00					0.00
Flow - m^3/d															
IH Edited Count	0.00				27.00	30.00	15.00	15.00	23.00	31.00		141.00			
IH Month.Max					674.49	1847.27	1849.11	1757.18	994.45	134.22				1849.11	
IH Month.Mean					638.67	1394.32	1651.67	1198.83	265.25	67.61			780.34		
IH Month.Min					101.76	237.61	661.60	449.38	13.98	0.00					0.00
IH Month.Total					17244.19	41829.49	24775.05	17982.42	6100.65	2095.90		110027.70			
Un-ionized Ammonia: NH3 - mg/L															
Count	0.00	0.00	0.00	0.00	8.00	8.00	6.00	4.00	6.00	4.00	0.00	36.00			
IH Edited Count	0.00				8.00	8.00	6.00	4.00	6.00	4.00		36.00			
IH Month.Max					0.01	0.00	0.00	0.00	0.11	0.05				0.11	
IH Month.Mean					0.00	0.00	0.00	0.00	0.03	0.03			0.01		
IH Month.Min					0.00	0.00	0.00	0.00	0.01	0.02					0.00
Total Ammonia Nitrogen: NH3 + NH4+ as N - mg/L															
Count	0.00	0.00	0.00	0.00	8.00	8.00	6.00	4.00	6.00	6.00	0.00	38.00			
Lab Count	0.00				8.00	8.00	6.00	4.00	6.00	6.00		38.00			
Lab Month.Max					1.40	0.20	0.20	0.20	3.90	3.50				3.90	
Lab Month.Mean					0.68	< 0.15	< 0.12	0.15	1.78	2.82			< 0.93		
Lab Month.Min					0.10	< 0.10	< 0.10	0.10	0.30	2.20					< 0.10

Nitrite as N: NO2-N - mg/L																
Count	0.00	0.00	0.00	0.00	8.00	8.00	6.00	4.00	6.00	6.00	0.00		38.00			
Lab Count	0.00				8.00	8.00	6.00	4.00	6.00	6.00			38.00			
Lab Month.Max					0.58	0.08	0.08	0.16	0.15	0.25					0.58	
Lab Month.Mean					0.26	< 0.04	< 0.04	< 0.08	0.09	0.16				< 0.12		
Lab Month.Min					0.06	< 0.03	< 0.03	< 0.03	0.05	0.11						< 0.03
Nitrate as N: NO3-N - mg/L																
Count	0.00	0.00	0.00	0.00	8.00	8.00	6.00	4.00	6.00	6.00	0.00		38.00			
Lab Count	0.00				8.00	8.00	6.00	4.00	6.00	6.00			38.00			
Lab Month.Max					7.83	6.27	6.61	4.74	14.30	7.18					14.30	
Lab Month.Mean					6.05	4.67	4.06	4.00	7.96	6.11				5.54		
Lab Month.Min					4.17	3.34	2.87	3.19	5.76	5.51						2.87
pH - ---																
IH Edited Count	0.00				8.00	8.00	6.00	4.00	6.00	5.00			37.00			
IH Month.Max					7.33	7.55	7.17	7.31	7.86	7.66					7.86	
IH Month.Mean					7.21	7.20	6.96	7.17	7.53	7.49				7.25		
IH Month.Min					6.81	6.40	6.67	7.00	7.13	7.28						6.40
Temperature - °C																
IH Edited Count	0.00				8.00	8.00	6.00	4.00	6.00	5.00			37.00			
IH Month.Max					16.40	26.00	28.20	24.90	22.80	21.40					28.20	
IH Month.Mean					15.61	18.26	24.82	23.73	20.97	19.24				19.91		
IH Month.Min					14.20	11.20	22.30	22.40	19.20	16.50						11.20
Total Kjeldahl Nitrogen: TKN - mg/L																
Lab Count	0.00				8.00	8.00	6.00	4.00	6.00	6.00			38.00			
Lab Month.Max					2.10	1.30	1.10	1.60	4.90	4.50					4.90	
Lab Month.Mean					1.19	1.01	0.90	1.33	2.65	3.55				1.72		
Lab Month.Min					0.70	0.70	0.80	0.90	1.80	2.80						0.70
Total Phosphorus: TP - mg/L																
Count	0.00	0.00	0.00	0.00	8.00	8.00	6.00	4.00	6.00	6.00			38.00			
Lab Count	0.00				8.00	8.00	6.00	4.00	6.00	6.00			38.00			
Lab Month.Max					0.24	0.27	0.56	0.30	0.32	0.35					0.56	
Lab Month.Mean					0.23	0.26	0.29	0.28	0.26	0.31				0.27		
Lab Month.Min					0.21	0.24	0.20	0.26	0.24	0.27						0.20
Total Suspended Solids: TSS - mg/L																
Count	0.00	0.00	0.00	0.00	8.00	8.00	6.00	4.00	6.00	6.00	0.00		38.00			
Lab Count	0.00				8.00	8.00	6.00	4.00	6.00	6.00			38.00			
Lab Month.Max					4.00	3.00	3.00	2.00	4.00	2.00					4.00	
Lab Month.Mean					< 2.63	< 2.63	< 2.17	< 2.00	< 2.50	< 2.00				< 2.37		
Lab Month.Min					< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00						< 2.00

Customized Monthly Report

From 01/01/2025 to 12/31/2025

Facility Name: HENSALL WASTEWATER TREATMENT LAGOON
Receiver: Black Creek

Facility Org Number: 5695
Facility Owner: Municipality: Municipality of Bluewater
Service Population: 1210

Works: 110000926
Facility Classification: Class 1 Wastewater Treatment
Total Design Capacity: 980 m3/day

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

														2025			
Raw Sewage	Jan 2025	Feb 2025	Mar 2025	Apr 2025	May 2025	Jun 2025	Jul 2025	Aug 2025	Sep 2025	Oct 2025	Nov 2025	Dec 2025	Total	Avg	Max	Min
Biochemical Oxygen Demand: BOD5 - mg/L																
Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			
Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			
Lab Month.Max	452.00	352.00	261.00	196.00	193.00	378.00	308.00	442.00	417.00	384.00	302.00	224.00			452.00	
Lab Month.Mean	452.00	352.00	261.00	196.00	193.00	378.00	308.00	442.00	417.00	384.00	302.00	224.00		325.75		
Lab Month.Min	452.00	352.00	261.00	196.00	193.00	378.00	308.00	442.00	417.00	384.00	302.00	224.00				193.00
Raw Flow - m^3/d																
IH Edited Count	31.00	28.00	31.00	30.00	31.00	30.00	31.00	31.00	30.00	31.00	31.00	31.00	366.00			
IH Month.Max	730.00	582.09	778.04	2467.86	405.71	283.95	357.79	1161.83	436.66	549.25	551.22	1126.12			2467.86	
IH Month.Mean	396.66	370.86	264.96	529.75	340.17	147.63	298.54	318.96	288.65	321.90	370.01	212.92		321.35		
IH Month.Min	335.43	308.80	142.31	301.35	258.14	100.26	269.94	234.99	239.93	217.56	298.17	44.72				44.72
IH Month.Total	12296.44	10384.03	8213.77	15892.60	10545.25	4428.76	9254.61	9887.89	8659.35	9979.02	11470.44	6600.65	117612.81			
Loadings BOD per hectare - kg/d																
IH Edited Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			
IH Month.Max	11.85	8.28	3.38	7.65	4.65	2.69	6.63	8.50	8.30	8.46	6.12	2.14			11.85	
IH Month.Mean	11.85	8.28	3.38	7.65	4.65	2.69	6.63	8.50	8.30	8.46	6.12	2.14		6.55		
IH Month.Min	11.85	8.28	3.38	7.65	4.65	2.69	6.63	8.50	8.30	8.46	6.12	2.14				2.14
IH Month.Total	11.85	8.28	3.38	7.65	4.65	2.69	6.63	8.50	8.30	8.46	6.12	2.14	78.65			
Total Kjeldahl Nitrogen: TKN - mg/L																
Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			
Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			
Lab Month.Max	89.00	54.00	30.70	21.20	45.60	39.10	70.00	64.00	77.00	58.80	47.10	39.10			89.00	
Lab Month.Mean	89.00	54.00	30.70	21.20	45.60	39.10	70.00	64.00	77.00	58.80	47.10	39.10		52.97		
Lab Month.Min	89.00	54.00	30.70	21.20	45.60	39.10	70.00	64.00	77.00	58.80	47.10	39.10				21.20
Total Phosphorus: TP - mg/L																
Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			
Lab Month.Max	23.40	7.30	5.09	5.41	5.72	6.27	9.40	8.60	16.60	11.40	7.19	5.91			23.40	
Lab Month.Mean	23.40	7.30	5.09	5.41	5.72	6.27	9.40	8.60	16.60	11.40	7.19	5.91		9.36		
Lab Month.Min	23.40	7.30	5.09	5.41	5.72	6.27	9.40	8.60	16.60	11.40	7.19	5.91				5.09
Total Suspended Solids: TSS - mg/L																
Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			
Lab Count	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			
Lab Month.Max	738.00	422.00	111.00	137.00	138.00	342.00	425.00	486.00	507.00	376.00	200.00	118.00			738.00	
Lab Month.Mean	738.00	422.00	111.00	137.00	138.00	342.00	425.00	486.00	507.00	376.00	200.00	118.00		333.33		
Lab Month.Min	738.00	422.00	111.00	137.00	138.00	342.00	425.00	486.00	507.00	376.00	200.00	118.00				111.00