



Wastewater Treatment

Performance Report 2025 Version 2

Submitted June 2026



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Glossary Table

Aeration Basin	Aer	Nitrogen Oxide	Nox
American Water Works Association	AWWA	Nitrite - nitrogen	NO ₂ -
W.A. Johnson Biosolids Management Centre	BMC	Nitrate - nitrogen	NO ₃ -
Biochemical Oxygen Demand	BOD5	Notice of Modification	NoM
Carbonaceous Biochemical Oxygen Demand	cBOD5	Out of Service	O/S
Colony Forming Units	CFU	Overall Responsible Operator	ORO
Communication	Comm	Max flow rate for which the plant was designed	Peak Flow
Concentration	Conc.	Measurement of hydrogen ion concentration	pH
Credit Valley Conservation	CVC	Programmable Logic Controller	PLC
Dissolved Oxygen	DO	Preventative/Planned Maintenance	PM
Escherichia Coli	E.coli	Ortho Phosphate	PO ₄ -
Environmental Compliance Approval	ECA	Return Activated Sludge	RAS
Environmental Compliance Hub Ontario	ECHO	Rain Derived Inflow and Infiltration	RDII
Equalization	EQ	Rotating Drum Thickener	RDT
Ferric Chloride	Ferric	Spills Action Centre	SAC
Halton Rural Water Quality Program	HRWQP	Secondary Clarifiers	SC
Hydrogen Sulfide	H ₂ S	Supervisory Control and Data Acquisition	SCADA
Heating, Ventilation, Air Conditioning	HVAC	Sewage Lift Pump	SLP
Sodium hypochlorite	Hypo	Sustainable Neighborhood Action Plan	SNAP
International Electrotechnical Commission	IEC	Total Ammonia Nitrogen	TAN
International Organization for Standardization	ISO	Temperature	Temp
Kilogram	kg	Total Kjeldahl Nitrogen	TKN
Laboratory Information System	LIMS	Total Phosphorus	TP
Lock Out/Tag Out	LOTO	Total Suspended Solids	TSS
Cubic meter per day	m ³	Uninterruptible Power Supply	UPS
Maximum	max	Ultraviolet Disinfection	UV
Motor Control Centre	MCC	Ultraviolet Transmittance	UVT
Ministry of the Environment, Conservation and Parks	MECP	Variable Frequency Drive	VFD
Milligram	mg	Wet Tonnes	w.t.
Milliliter	ml	Waste Activated Sludge	WAS
Megaliter per day	MLD	Wastewater Collection System	WWCS
Municipal Utility Monitoring Program	MUMP	Wastewater Treatment Plant	WWTP
Not Applicable	N/A		
Un-Ionized ammonia	NH ₃		

1. Introduction

This report provides a performance summary for the period from January 1 to December 31, 2025 for Halton Region's wastewater treatment plants and its biosolids management center. Compliance with regulatory requirements, policies and the Environmental Compliance Approval (ECA) continues to be monitored through the supervisory controls systems, oversight by professional licensed operations staff, an accredited laboratory and regular reporting mechanisms.

1.1 Compliance and Process Analysis

1.1.1 Compliance Sampling Program

Halton Regional Laboratory performs the analysis on compliance samples from the wastewater treatment plants (WWTPs) and is accredited with the Canadian Association for Laboratory Accreditation (CALA) to ISO/IEC Standard 17025:2017. Halton Regional Laboratory also schedules sampling days for the WWTP, ensuring a sampling schedule that is as random as possible given delivery, plant and laboratory coverage considerations, and are independent of WWTP input.

The compliance sampling program meets or surpasses the requirements of the Ministry of the Environment, Conservation and Parks (MECP). The overall result of the compliance sampling program is presented in Table 1.1-1. Compliance possibilities include all parameters listed in the WWTP Environmental Compliance Approvals (ECA), with the exception of pH and loading limits.

Table 1.1-1 Regional Laboratory Tests

Wastewater Treatment Plants	Final Effluent Tests	Compliance Possibilities
Acton	326	115
Georgetown	337	158
Mid-Halton	506	116
Oakville Southeast	263	80
Oakville Southwest	291	113
Burlington Skyway	522	96

1.1.2 Process Control Sampling Program

Each facility has its own process laboratory where samples are tested and analyzed to support effluent quality assurance and/or introduce performance control measures. The frequency and methodology used for analysis of process monitoring and control parameter control may not conform to the requirements of the MECP outlined in the ECA, therefore, this data is not included in the compliance summary results and averages.

1.1.3 Process Data

The data compiled in the Annual Wastewater Performance Report is provided by the Laboratory Information System (LIMS) database not the Municipal Utility Monitoring Program (MUMP) Reports which are submitted to the MECP. The LIMS data provides the Region with the appropriate significant digits and in some instances may not be identical to data submitted in the MUMP Reports due to limitations in the reporting of significant digits from LIMS.

1.2 Inflow/Infiltration Monitoring & Control Programs

Halton Region's Wastewater Collection System (WWCS) are all nominally separated sewer systems^[1], affected to some degree by rain derived inflow and infiltration (RDII). Despite the hydraulic challenges caused by RDII, Halton Region continues to provide normal^[2] level of treatment or higher to the majority of the wastewater volume received.

Table 1.2-1 Region Wide & Spatial Distribution, Percent Volume by Treatment Level

Systems	Normal or Higher (≥2°)	Partial (≤1°)	Untreated
Halton Hills	99.9%	0%	0.1%
Acton	100%	0%	0%
Georgetown	99.9%	0%	0.1%
Central Halton	100%	0%	0%
Mid-Halton	100%	0%	0%
South Halton	99.7%	0.3%	0%
Burlington Skyway	99.5%	0.5%	0%
Oakville Southeast	100%	0%	0%
Oakville Southwest	100%	0%	0%
Region Wide	99.8%	0.2%	0%
Region Wide Volume	83,144 ML	156 ML	4 ML

Minor discrepancies may occur because of rounding.

[1] F-5-1 Determination of Treatment Requirements for Municipal and Private Sewage Treatment Works. MECP: 2016.

[2] Guideline F-5: Levels of Treatment for Municipal and Private Sewage Treatment Works Discharging to Surface Waters MECP: 1994.

2. Acton Wastewater System

2.1. System Description

The Acton WWTP is located at 202 Churchill Road South in Halton Hills (Acton). The facility is a tertiary treatment plant consisting of screening, grit removal, flow splitting to primary clarification, nitrifying activated sludge, final clarification, continuous backwash sand filters, an aluminum sulphate dosing system for phosphorus removal, and dual stage anaerobic digestion. The final effluent is disinfected year-round using UV light before being discharged into Black Creek. The Acton WWTP system information is provided in Table 2.1-1.

Table 2.1-1 Acton System Information

Municipal Wastewater System Works Number		120001023
Classification		
Treatment Facility		Class 3
Certificate #		567
Collection System		Class 2
Certificate #		568
Environmental Compliance Approvals		
Type	ECA Number	Date of Issue
Sewage Works	2758-DERQ5L	December 18, 2025
Sewage Works	7158-CR7TWJ	July 18, 2023
Air & Noise	3390-AMEKEA	July 31, 2017

2.2 Condition 11 4.a – Influent Flow Monitoring

a summary and interpretation of all Influent, monitoring data and a review of the historical trend of the sewage characteristics and flow rates;

Influent sewage characteristics for this reporting period can be found in **Appendices Acton 1, Acton 2 & Acton 3**. Historical influent flow characteristics can be found in Table 2.2-1 below.

Table 2.2-1 Historical Data

Influent Annual Average	Units	2021	2022	2023	2024	2025
Total Flow	ML	1,294.643	1,174.770	1,354.848	1,377.757	1,336.420
Average Flow	MLD	3.547	3.219	3.712	3.765	3.660
BOD5	mg/L	190	170	181	173	173
BOD5 Loading	kg/day	683.5	531.6	647.6	649.8	623.6
TSS	mg/L	247.5	214.2	227.5	210.8	212.5
TSS Loading	kg/day	869.7	680.4	819.4	789.9	770.8
TKN	mg/L	39.6	39.1	40.3	40.0	41.3
TKN Loading	kg/day	141.1	124.2	144.3	149.5	149.9
TP	mg/L	5.60	4.76	5.55	4.52	4.75
TP Loading	kg/day	20.20	15.15	20.03	16.94	17.15

Minor discrepancies may occur because of rounding.

2.3 Condition 11 4.b – Effluent Flow Monitoring

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:

See **Appendices Acton 1, Acton 2 & Acton 3** for details on monthly wastewater effluent flows over the reporting period.

2.4 Condition 11 4.c – Operating Issues & Corrective Actions

a summary of all operating issues encountered and corrective actions taken:

Table 2.4-1 illustrates the operating issues and corrective actions taken by operations for this reporting period.

Table 2.4-1 Operating Issues & Corrective Actions

Issue	Date	Causes	Corrective Actions
Plant Power Outage	Multiple days throughout the year	Loss of Hydro Power due to Fallen Tree on Hydro Line causing Generators to run (January 27th). Planned Power Outage from Halton Hills Hydro for maintenance on March 23rd.	Operations monitored the facility and reset all equipment, normal power was restored.
CBOD over objective	2/11/2025	Probable buildup of algae/biofilm suspected on sample intake equipment.	Sample bottle, probe and intake tubing were cleaned. Monthly average for CBOD remained compliant.
Influent	4/1/2025	Local Arena in Acton	Contacted Halton's Industrial Waste

Issue	Date	Causes	Corrective Actions
Anomaly (White Spill)	4/2/2025		Group to come to the facility as per Halton's protocol on Influent Spills. Influent sample submitted to the Region Lab for analysis. No adverse effects on the facility were observed.
High Flow Event	4/3/2025 12/28/2025	Heavy Rainfall	Operations monitored the facility. No overflow or bypass recorded.
Process Laboratory pH meter calibration	Weekly	Calibration performed in accordance with Work Instruction Q-WI-199	N/A

2.5 Condition 11 4.d – Maintenance

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:

The Water and Wastewater Treatment Division has developed a maintenance management program for plant works at the WWTP. This program is executed by treatment plant maintenance and Supervisory Control and Data Acquisition (SCADA) staff. State of good repair work performed by the Plant Capital and Engineering staff is not reported.

Table 2.5-1 lists the number of normal activities, emergency repairs and maintenance activities completed by treatment plant maintenance and SCADA staff at the WWTP for the reporting period. The Water and Wastewater Division aligns current maintenance language with ECA language, as follows:

- Normal activities are all planned or unplanned work that is not classified as a Breakdown or an Unplanned Request
- Emergency repairs are all breakdown work order types that result in downtime of a process area or the plant
- Maintenance activities are all planned and unplanned works, from all order types

Table 2.5-1 Maintenance Work

Normal Activities	Emergency Repairs	Maintenance Activities
595	0	621

Due to the volume of workorders and related transactional data for the works, this information is not included as part of this report, however, the information is provided on a weekly basis to operational staff at each plant as part of the maintenance management asset care process.

2.6 Condition 11 4.e – Quality Assurance and Control Measures

a summary of any effluent quality assurance or control measures undertaken:

2.6.1 Quality Assurance

To ensure the quality of the data collected by operations, the following criteria are in place.

- Operations perform daily in house testing on the parameters set in the ECA
- Optimization sampling at every process
- A monitoring schedule is set up by the accredited Regional Lab
- Process data is collected electronically
- SCADA collects real time data, monitors and stores data for future analysis
- Participation in the AWWA Partnership for Clean Water program

2.6.2 Control Measures

The following control measures are in place at the Acton WWTP

- Daily reports are used to analyze trends and determine if changes are necessary
- Online analyzers reviewed to ensure complete treatment at various process stages
- Compliance instruments are calibrated to ensure accuracy
- Equipment redundancy throughout the plant to ensure treatment can be achieved in the event of normal maintenance, emergencies and breakdowns
- Thin clients are stationed throughout the plant to allow operations to access SCADA to control equipment and assess real time conditions
- Work instructions and standard operating procedures are developed to aid operations
- Phosphorus precipitation using Aluminum Sulphate

2.7 Condition 11 4.f – Calibration & Maintenance of Monitoring Equipment

a summary of the calibration and maintenance carried out on all Influent 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:

The equipment used to monitor wastewater influent/effluent flows and key parameters must be maintained and checked throughout the year to ensure accurate readings. The equipment used for flow monitoring is calibrated yearly by Halton's Maintenance staff. Halton's Maintenance team aims to complete regulatory equipment calibrations within 12 months of the last calibration. At a minimum, regulatory equipment is calibrated at least once per calendar year and at least five months after the most recent calibration, per the Canadian Wastewater Systems Effluent Regulations (SOR/2012-139). Therefore, all the equipment was found to be within acceptable limits in 2025. The equipment used for monitoring the parameters listed in ECA Schedule D Monitoring Program, with the exception of the Final Effluent pH, is calibrated by the Region's Regional Laboratory. The Final Effluent pH is monitored by the in-plant process laboratory pH meter. This device is field calibrated weekly by Halton's Operations staff. Raw and Final Effluent Autosamplers are maintained by Operations to ensure that the samples are representative.

Table 2.7-1 shows the calibration date of the equipment used for regulatory reporting in 2025.

Table 2.7-1 Calibration

Instrument Description	SAP #	2025 Calibration	2024 Calibration
FLOW RAW SEWAGE	225702	07/2025	07/2024
FLOW FINAL EFFLUENT	235095	07/2025	07/2024
FLOW SECONDARY C1	235093	07/2025	07/2024
FLOW SECONDARY C2	235094	07/2025	07/2024

2.8 Condition 11 4.g – Efforts Made to Achieve Design Objective

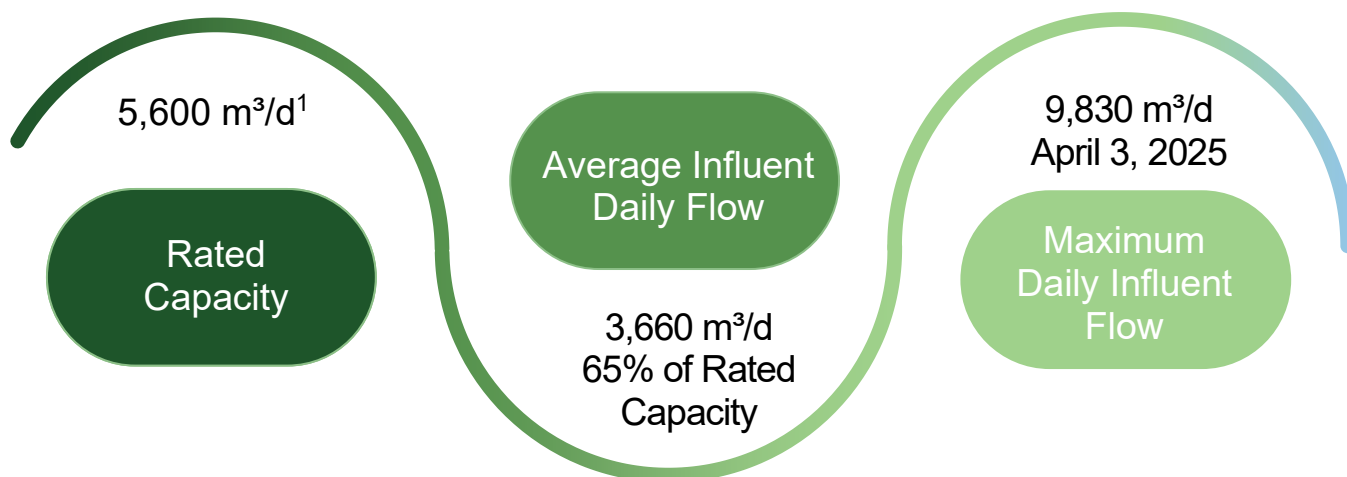
a summary of efforts made to achieve the design objectives in this Approval, including an assessment of the issues and recommendations for pro-active actions if any are required under the following situations:

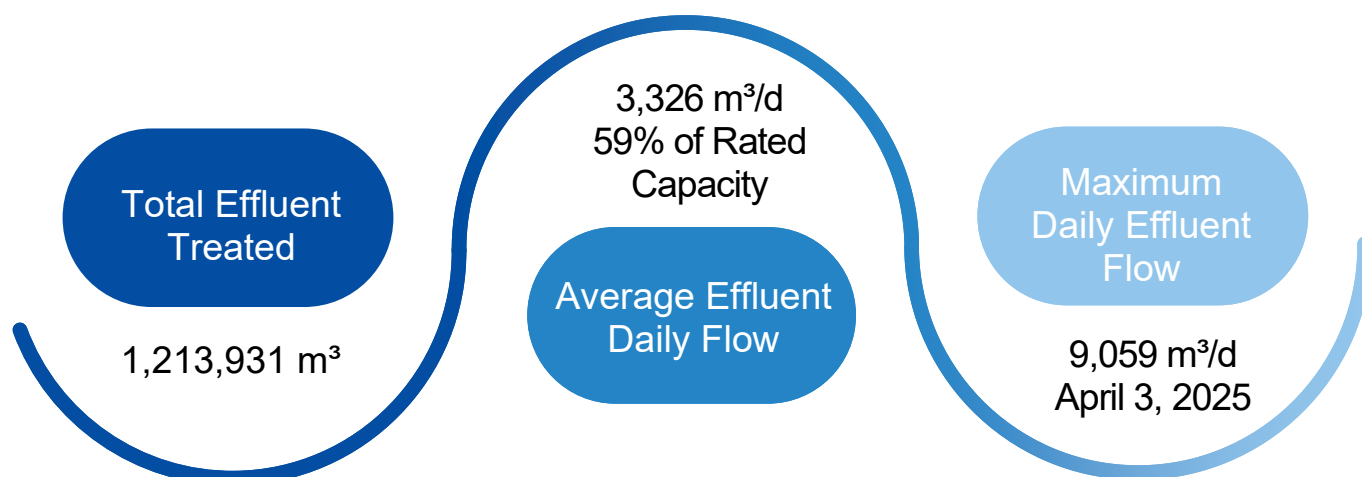
i. when any of the design objectives is not achieved more than 50% of the time in a year, or there is an increasing trend in deterioration of Final Effluent quality;

ii. when the Annual Average Daily Influent Flow reaches 80% of the Rated Capacity;

The annual influent and effluent flow summary are outlined in Figure 2.8-1. See **Appendix Acton 1** for additional details on monthly influent and effluent wastewater flows over the reporting period.

Figure 2.8-1 Plant Influent & Effluent Flow Summary





¹ Facility capacity based on the amended ECA issued December 18, 2025.

2.8.1 Analytical Results

The monthly analysis results are provided in **Appendix Acton 2**, and all analysis results are presented in **Appendix Acton 3**.

Table 2.8-1 presents the annual summary of compliance and demonstrates the adequacy of the works. This data demonstrates how the facility met compliance limits and objectives throughout the year and the percentages are calculated using the prescribed averaging calculators from the ECA.

Table 2.8-1 Annual Summary of Compliance Results

Results Within Limits*		Results Within Objectives*,**	
CBOD – 5.0 mg/L	100%	CBOD – 2.0 mg/L	100%
TSS – 5.0 mg/L	100%	TSS – 3.0 mg/L	100%
TP – 0.2 mg/L	100%	TP – 0.1 mg/L	100%
TAN – 2.0/4.0 mg/L ***	100%	TAN – 0.5/1.0 mg/L ***	100%
E.Coli – 150 CFU/100ml	100%	E.Coli – 100 CFU/100ml	100%
pH – 6.0 - 9.5	100%	pH – 6.5 - 8.5	100%
TP Loading – 0.56 kg/d	100%		

* Statistics are based on the averaging calculator from Schedule B and C of the ECA.

** The operating authority “shall use their best effort to maintain” and does not represent non-compliance

*** TAN Season: May to November – Limit: 2.0 mg/L (Objective: 0.5 mg/L), December to April – Limit: 4.0 mg/L (Objective: 1.0 mg/L)

2.9 Condition 11 4.h – Biosolids

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;

The annual biosolids production and forecast for the following year is presented in Table 2.9-1. The

biosolids are taken to the Biosolids Management Center (BMC) for temporary storage, blending and thickening prior to land application and/or dewatering.

Table 2.9-1 Acton Biosolids Production & Forecast

Material	Produced	2026 Forecasted
Biosolids (m ³)	5,647	5,500

2.10 Condition 11 4.i – Complaints

a summary of any complaints received during the reporting period, and any steps taken to address the complaints;

There were no complaints received at the plant in 2025.

2.11 Condition 11 4.j – Partial Treatment Events

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;

The occurrence of a spill, bypass or overflow result in the generation of an event report and entry into the operational log. These event(s) are listed in the following table(s).

There were no bypasses, overflows or spills in 2025. There was one false overflow, which is documented in Table 2.11-1.

Table 2.11-1 Plant Event(s)

Date	ECHO #	Type	Start Time HH:MM	Duration (Minutes)	Volume (m ³)	Disinfection (Y/N)	Cause Code
07/17/2025	1-P5T4WY	False Overflow	N/A	Unknown	2,146	N/A	8

Cause Codes for Partial Treatment Events

1 = Heavy Precipitation	4 = Equipment Maintenance	7 = Exceed Design
2 = Snow Melt	5 = Sewer Problems	8 = Other
3 = Equipment Failure	6 = Power Failure	

2.12 Condition 11 4.k – Notices of Modifications

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 modifications.

Halton Region monitors, maintains, and replaces existing assets based on condition, age, risk and/or use as part of the state of good repair program or as identified in the master plan.

There were no Notice of Modifications submitted in 2025.

2.13 Condition 11 4.I – Conformance with Procedure F-5-1

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

As a nominally separated sewer system, details about current or future projects related to the sanitary sewer system within Halton Region's Wastewater Collection System ECA (004-W601) that relates to bypass/overflow elimination can be found in the Wastewater Collection Systems Performance Report.

2.14 Condition 11 4.m – Monitoring Schedule

a summary of any deviation from the monitoring schedule and reasons for the current reporting year and a schedule for the next reporting year.

In 2025, there were no deviations from the current monitoring schedule. Table 2.14-1 shows the monitoring schedule for Acton WWTP.

Table 2.14-1 Monitoring Schedule

Sample	Minimum Frequency	Analysis Performed
Raw Sewage	Weekly	BOD5**, TSS**, TP, TKN
Final Effluent	Weekly	CBOD5**, TP, TSS**, TAN, NO ₂ ⁻ , E.Coli, pH*, Temp*

* pH and temperature of the Final Effluent shall be determined in the field at the time of sampling for Total Ammonia Nitrogen.

** The ECA minimum frequency is monthly for these parameters.

2.15 Condition 12 – Total Phosphorus (TP) Offset Implementation Program

The Owner shall implement the Total Phosphorus (TP) Offset Program, as detailed in the letter and supporting documentation entitled "Condition 12 (4) b Proposed Changes to the Total Phosphorous Offset Program Amended Environmental Compliance Approval No. 7158-CR7TWJ" dated November 18, 2024, signed by Mark Connell, Director, Water and Wastewater Treatment, the Regional Municipality of Halton. The Owner shall prepare and submit status and progress reports on the Total Phosphorus Offset Program to the Director and District Manager on an annual basis that includes the following: a. progress update on the implementation of the Halton Rural Water Quality Program and Black Creek Subwatershed Action Plan through 2029; b. in 2030, an update of "Table 1. PWQMN of Total Phosphorous in Black Creek and Silver Creek downstream to the Credit River" as included in Halton's letter dated November 18, 2024, covering the period from 2023-2030, and an analysis of receiver impacts and trends of Total Phosphorous compared to the Provincial Water Quality Objective (PWQO) beyond the mixing zone

Halton initiated funding of the Sustainable Neighborhood Action Plan (SNAP) program in advance of the amended ECA. Credit Valley Conservation (CVC) completed the draft Acton SNAP Action Plan Report in December 2025. The draft report indicates that: "CVC and the Town expect to implement this plan beginning in 2026, with support from the Region, community groups and local partners."

The draft report provides the following status updates for two potential restoration projects:

Wetlands for Cleaner Water for Fairy Lake: This technical study was carried out by CVC staff in 2025 and explored how wetlands at the inlets at Fairy Lake may help filter out phosphorus and improve water quality. Too much phosphorus in water causes excessive algae growth, which depletes oxygen and harms aquatic life. The technical study identified the requirements needed to move the project to the design stage. ...This study will be available under separate cover upon completion (anticipated Q2 2026).

Bovis Creek Restoration: A portion of Bovis Creek, which flows into Black Creek, is channelized ... Channelization may help reduce flooding in some areas but often causes more erosion downstream and poor water quality. This technical study is underway to explore the restoration of a 1.8 km stretch of Bovis Creek to improve the creek's natural flow, habitat, and water quality to create a healthier environment for both wildlife and the community. This study will be available under separate cover upon completion (anticipated Q1 2027).

The Halton Rural Water Quality Program (HRWQP) is planned to commence in 2026 and will be reported on in subsequent years.

3. Georgetown Wastewater System

3.1 System Description

The Georgetown WWTP is located at 275 Mountainview Road South in Halton Hills (Georgetown). The Georgetown WWTP is a tertiary treatment plant consisting of screening, raw sewage pumping, grit removal, primary clarification, nitrifying activated sludge, secondary clarification, tertiary filtration, and two stage anaerobic digestion. Ferric chloride is used for phosphorus removal. UV light is used for seasonal disinfection prior to the effluent discharging into Silver Creek. The Georgetown WWTP system information is provided in Table 3.1-1

Table 3.1-1 Georgetown System Information

Municipal Wastewater System Works Number		110000294
Classification		
Treatment Facility	Class 3	
Certificate #	563	
Collection System	Class 2	
Certificate #	565	
Environmental Compliance Approvals		
Type	ECA Number	Date of Issue
Sewage Works	4783-BUCP6Y	October 29, 2020
S.20.18 Order	X-1000004824	February 09, 2015
Air & Noise	2061-9TFS58	July 15, 2015

3.2 Condition 11 4.a – Influent Flow Monitoring

a summary and interpretation of all Influent monitoring data, and a review of the historical trend of the sewage characteristics and flow rates;

Influent sewage characteristics for this reporting period can be found in **Appendices: Georgetown 1, Georgetown 2 & Georgetown 3**. Historical influent flow characteristics can be found in Table 3.2-1 below.

Table 3.2-1 Historical Data

Influent Annual Average	Units	2021	2022	2023	2024	2025
Total Flow	ML	4,841.529	4,817.424	5,258.428	5,434.244	4,790.047
Average Flow	MLD	13.264	13.198	14.407	14.847	13.110
BOD5	mg/L	239	244	243	253	262
BOD5 Loading	kg/day	3,185.8	3,228.7	3,494.5	3,734.5	3,415.2
TSS	mg/L	310.8	308.3	355.0	366.7	331.7
TSS Loading	kg/day	4,127.1	4,100.4	5,096.6	5,401.9	4,355.1
TKN	mg/L	43.9	42.7	42.1	42.4	42.9
TKN Loading	kg/day	585.9	561.5	604.9	622.8	559.5
TP	mg/L	7.11	7.47	7.29	7.36	8.02
TP Loading	kg/day	93.99	98.58	104.56	107.88	104.57

Minor discrepancies may occur because of rounding.

3.3 Condition 11 4.b – Effluent Flow Monitoring

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;

Refer to **Appendices: Georgetown 1, Georgetown 2 & Georgetown 3** for comprehensive information on the monthly wastewater effluent flows, concentrations and loading rates throughout the reporting period.

3.4 Condition 11 4.c – Monitoring Schedule

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

In 2025, there were no deviations from the current monitoring schedule. Table 3.4-1 shows the monitoring schedule for Georgetown WWTP.

Table 3.4-1 Monitoring Schedule

Sample	Minimum Frequency	Analysis Performed
Raw Sewage	Weekly	BOD5, TSS, TP, TKN
Final Effluent	Weekly	CBOD5, TSS, TP, TAN, E.coli, pH*, Temp*, Unionized Ammonia**

*pH and temperature of the Final Effluent shall be determined in the field at the time of sampling for Total Ammonia Nitrogen.

**The concentration of un-ionized ammonia shall be calculated using the total ammonia concentration, pH and temperature using the methodology stipulated in "Ontario's Provincial Water Quality Objectives" dated July 1994, as amended.

3.5 Condition 11 4.d – Operating Issues & Corrective Actions

a summary of all operating issues encountered and corrective actions taken:

Table 3.5-1 illustrates the operating issues and corrective actions taken by operations.

Table 3.5-1 Operating Issues & Corrective Actions

Issue	Date	Causes	Corrective Actions
Abnormal Influent	1/5/2025 – 1/8/2025	Spill from industrial discharger	Contacted Halton Region's Industrial Waste group. IW collected samples at the source. In-house sample analysis completed, air header pressure increased to maintain DO, solids redistributed, sludge haulage increased.
Poor Filtrate and Filter Performance	2/18/2025 – 3/17/2025	Incompatible/Improper Media	Filter was isolated and drained. Vacuum truck services removed incorrect media. New media was installed. Filter was filled and tested for a 2-week period before returning to normal operation.
Decreased Raw Sludge Flow	3/5/2025	Excessive grease and grit accumulation in piping	Operational team isolated and flushed piping system. Flow meter flushed and inspected. Flushing ports were installed on the sludge line to increase flushing flexibility. Discharge flow returned to normal following all corrective actions.
Digester Foaming	3/16/2025	Back feeding of raw sludge to secondary digester	Feeding loop was traced and isolated. Sludge was cleaned from the gas system and the common gas header by contractor. Sedimentation tank cleaned and functionality confirmed. Event report completed and submitted for Spill to Air.
Power Failure	4/3/2025	Heavy Precipitation	Heavy precipitation and winds surged system. Standby power supplied equipment and flows were balanced. Samples collected and submitted for analysis. Event report submitted.
High Effluent TP and TSS Results	4/3/2025 – 4/4/2025	Heavy Precipitation/ Storm event	Heavy precipitation led to a tertiary bypass, resulting in unusually elevated TP and TSS levels in the submitted weekly sample. Additional samples were collected and sent to the Regional Lab to verify results and confirm that typical operating conditions were maintained.
Decreased Filter Removal Efficiency and Filter Blinding During High Flows	Multiple days throughout the year	Fouled Media on Filter 1, 2 and 3	Filter Media Replacement Project
Green Plastic in	7/4/2025	Industrial Discharge	Industrial Waste (IW) group notified of

Issue	Date	Causes	Corrective Actions
Scum Hopper			abnormal FOG in scum vat and on surface of Primary Clarifier. IW group traced the source and collected samples. Scum hopper cleaned by contractor. System returned to normal operation
Excessive Solids and poor air distribution in 1B Aeration Tank	8/5/2025 – 9/15/2025	Poor Mixing	Aeration tank cleaned out by Vac truck contractor, diffusers stones cleaned, O-Rings and gaskets replaced,
Power Failure (No Generator or Utility Power)	8/7/2025	Generator tripped during bi-weekly testing and PLC could not determine the proper power transfer sequence to re-establish Utility Power.	Contract electrician worked with maintenance group to reset system and restore power. Generator transfer/switch over tested again for faults.
No Disinfection	8/7/2025	Power Failure (No Generator or Utility Power)	Generator tripped during bi-weekly testing and PLC could not determine the proper power transfer sequence to re-establish Utility Power. Event report submitted
Abnormal Influent	9/24/2025	Industrial Spill	IW notified operational staff of an industrial spill at local vendor. Air header pressure was increased to ensure adequate DO was maintained in aeration basin. In-house testing was completed. No adverse effects observed.
Unable to Isolate Secondary Clarifiers	9/29/2025 – 10/3/2025	Inlet gates not sealing	Entire plant flow diverted, stop blocking installed, inlet gates re-sealed. Flow diversion equipment removed. System returned to normal operation
Primary Clarifier Off Gassing	10/14/2025	Low flow through primary clarifiers	Primary clarifier isolated and removed from service to maintain the appropriate SOR and design treatment capacity.
Excessive Amount of Grit	12/29/2025	Heavy Precipitation and Snow Melt	Due to heavy precipitation and snow melt, influent flow elevated. Large amounts of grit and sediment brought into the plant as a result. Grit bin was raked and levelled, system was run in local to clear accumulated grit. Disposal company was contacted to collect the bin.
Process Laboratory pH meter calibration	Weekly	Calibration performed in accordance with Work Instruction Q-WI-199	N/A

3.6 Condition 11 4.e – Maintenance

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;

The Water and Wastewater Treatment Division has developed a maintenance management program for plant works at the WWTP. This program is executed by treatment plant maintenance and SCADA staff. State of good repair work performed by the Plant Capital and Engineering staff is not reported.

Table 3.6-1 lists the number of normal activities, emergency repairs and maintenance activities completed by treatment plant maintenance and SCADA staff at the WWTP for the year. The Water and Wastewater Division aligns current maintenance language with ECA language, as follows:

- Normal activities are all planned or unplanned work that is not classified as a Breakdown or an Unplanned Request
- Emergency repairs are all breakdown work order types that result in downtime of a process area or the plant
- Maintenance activities are all planned and unplanned works, from all order types

Table 3.6-1 Maintenance Work

Normal Activities	Emergency Repairs	Maintenance Activities
767	0	835

Due to the volume of workorders and related transactional data for the works, this information is not included as part of this report, however, the information is provided on a weekly basis to operational staff at each plant as part of the maintenance management asset care process.

3.7 Condition 11 4.f – Quality Assurance and Control Measures

a summary of any effluent quality assurance or control measures undertaken;

3.7.1 Quality Assurance

To ensure the quality of the data collected by operations, the following criteria are in place.

- Operations perform daily in house testing on the parameters set in the ECA
- Optimization sampling at every process
- A monitoring schedule is set up by the accredited Regional Lab
- Process data is collected electronically
- SCADA collects real time data, monitors and stores data for future analysis
- Participation in the AWWA Partnership for Clean Water program

3.7.2 Control Measures

The following control measures are in place at the Georgetown WWTP

- Daily reports are used to analyze trends and determine if changes are necessary
- Online analyzers reviewed to ensure complete treatment at various process stages
- Compliance instruments are calibrated to ensure accuracy
- Equipment redundancy throughout the plant to ensure treatment can be achieved in the event

- of normal maintenance, emergencies and breakdowns
- Thin clients are stationed throughout the plant to allow operations to access SCADA to control equipment and assess real time conditions
- Work instructions and standard operating procedures are developed to aid operations
- Phosphorus precipitation is achieved through ferric chloride addition

3.8 Condition 11 4.g – Calibration & Maintenance of Monitoring Equipment

a summary of the calibration and maintenance carried out on all Influent 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;

The equipment used to monitor wastewater influent/effluent flows and key parameters must be maintained and checked throughout the year to ensure accurate readings. The equipment used for flow monitoring is calibrated yearly by Halton's Maintenance staff. Halton's Maintenance team aims to complete regulatory equipment calibrations within 12 months of the last calibration. At a minimum, regulatory equipment is calibrated at least once per calendar year and at least five months after the most recent calibration, per the Canadian Wastewater Systems Effluent Regulations (SOR/2012-139). Therefore, all the equipment was found to be within acceptable limits in 2025. The equipment used for monitoring the parameters listed in ECA Schedule D Monitoring Program, with the exception of the Final Effluent pH, is calibrated by the Region's Regional Laboratory. The Final Effluent pH is monitored by the in-plant process laboratory pH meter. This device is field calibrated weekly by Halton's Operations staff. Raw and Final Effluent Autosamplers are maintained by Operations to ensure that the samples are representative.

Table 3.8-1 shows the calibration date of the equipment below.

Table 3.8-1 Calibration

Instrument Description	SAP #	2025 Calibration	2024 Calibration
TRANSMITTER FLOW FINAL EFFLUENT	209094	08/2025	09/2024
TRANSMITTER FLOW RAW SEWAGE INLET	202411	08/2025	09/2024

3.9 Condition 11 4.h Efforts Made to Achieve Design Objective

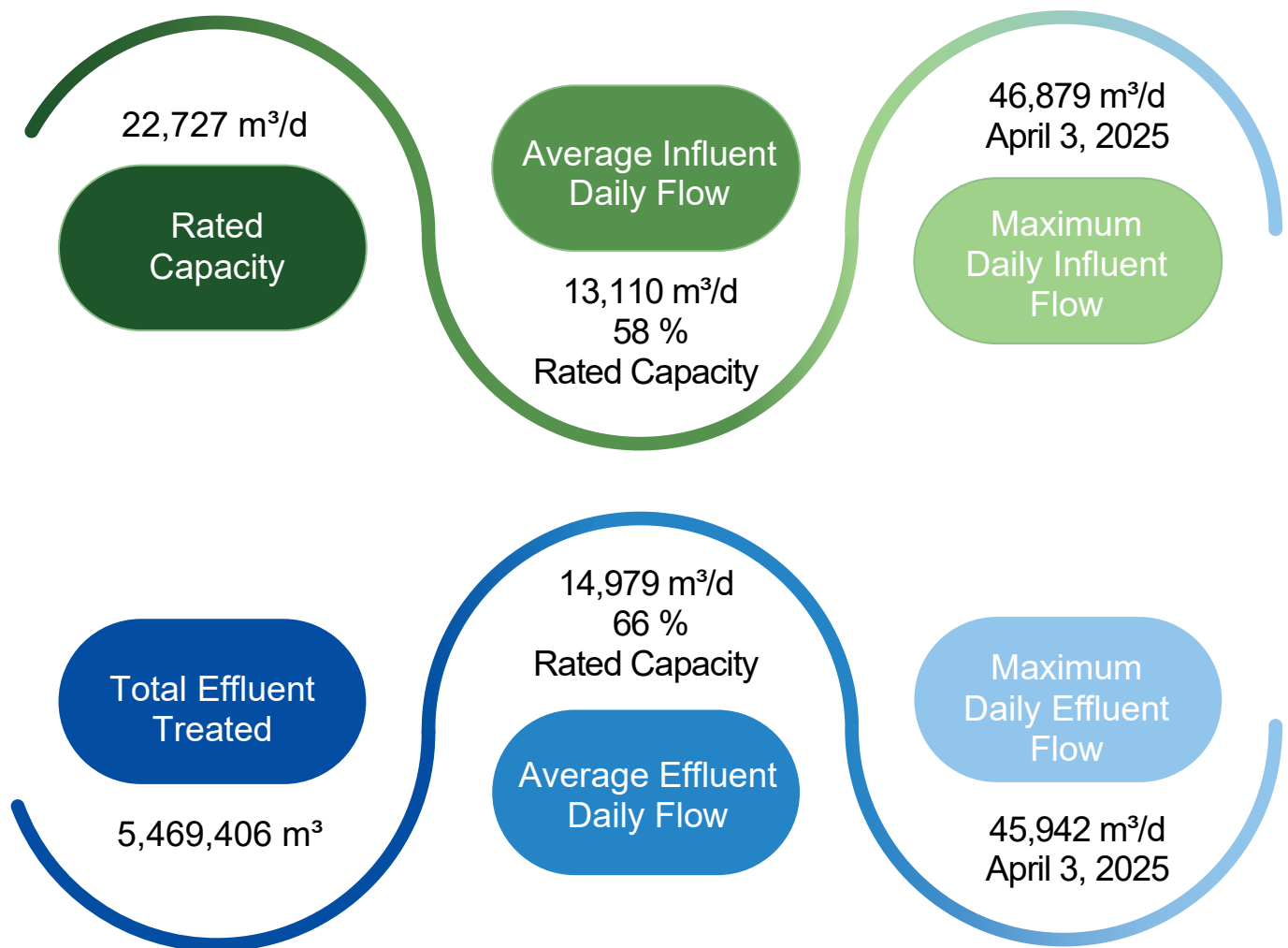
a summary of efforts made to achieve the design objectives in this Approval, including an assessment of the issues and recommendations for pro-active actions if any are required under the following situations:

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;

The annual influent and effluent flow summary are outlined in Figure 3.9-1. See **Appendix Georgetown 1** for additional details on monthly influent and effluent wastewater flows over the reporting period.

Figure 3.9-1 Plant Influent & Effluent Flow Summary



3.9.1 Analytical Results

The monthly analysis results are provided in **Appendix Georgetown 2**.

Table 3.9-1 presents the annual summary of compliance and demonstrates the adequacy of the works. This data demonstrates how the facility met the compliance limits and objectives throughout the year, and the percentages are calculated using the prescribed averaging calculators from the ECA.

Table 3.9-1 Annual Summary of Compliance Results

Results Within Limits*		Results Within Objectives*,**	
CBOD – 5.0 mg/L	100%	CBOD – 4.0 mg/L	100%
TSS – 5.0 mg/L	100%	TSS – 4.0 mg/L	92%
TP – 0.30 mg/L	100%	TP – 0.25 mg/L	100%
Un-ionized NH ₃ – 0.02 mg/L	100%	Un-ionized NH ₃ – < 0.02 mg/L	100%
E.Coli – 200 CFU/100ml***	100%	E.Coli – 150 CFU/100ml***	100%
pH – 6.0-9.5	100%	pH – 6.5-9.0	100%
CBOD Loading – 113.6 kg/d	100%		
TSS Loading – 113.6 kg/d	100%		
TP Loading – 6.8 kg/d	100%		

* Statistics are based on the averaging calculator from Schedule B and C of the ECA.

** The operating authority “shall use their best effort to maintain” and does not represent non-compliance

*** E.coli sampling and reporting occurs during the period of April 1 to October 31

3.10 - Condition 11 4.i – Biosolids

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;

The annual biosolids production and forecast for the following year is presented in Table 3.10-1. The biosolids are taken to the Region’s BMC for temporary storage, blending and thickening prior to land application and/or dewatering.

Table 3.10-1 Georgetown Annual Biosolids Production & Forecast

Material	Produced	2026 Forecasted
Biosolids (m ³)	75,573	60,000

Georgetown supplied WAS to seed the Burlington Skyway WWTP aeration during a process upset and the volume is represented in Table 3.10-2

Table 3.10-2 WAS Hauled Off Site for Process Reseeding

Material	Hauled Off-Site to Skyway	2026 Forecasted
WAS (m ³)	40	0

3.11 Condition 11 4.j – Complaints

a summary of any complaints received and any steps taken to address the complaints:

The complaints received at the Georgetown WWTP for this reporting period are summarized in Table 3.11-1 below. Plant Operations staff respond to each complaint with a thorough investigation and timely and appropriate corrective action.

Table 3.11-1 Complaints Summary

Date	Type	Description	Plant Actions
4/10/2025	Odour	Resident called 311 to report noxious odour experienced in early morning hours ECHO # 1-O5D6SM	Spoke to resident after being transferred from 311. Resident indicated they sleep with the window open and awoke to noxious smells around 3 am. Smell intensified until 5 am and dissipated around 6 am. No odour at time of call. WWTP staff starting their shift at 6:30 am and indicated no odour was detected at the facility upon arrival. Based on wind direction, the source of odour was suspected from the industrial area of Georgetown. WWTP staff reached out to the Collections and Industrial Waste staff to determine any potential sources of odour. Further investigation found odour control system at an industrial location failed and confirmed as the source of the odour.
10/4/2025	Odour	Thursday October 9th, 2025, Georgetown WWTP personnel were notified of an odour concern that was submitted to Access Halton via email Saturday October 4th, 2025, at 10:34 am. ECHO # 1-PNJAJ0	Resident submitted an odour concern to Access Halton via email, Saturday October 4, 2025. Georgetown WWTP personnel became aware of the concern Thursday October 9th, 2025. Team supervisor contacted the resident by phone, at 10:30 hrs to obtain more details regarding the odour concern. The resident indicated they have noticed an increase in foul smells over the past 6-8 weeks in the evenings and on weekends. They described the smell as being a septic, swampy smell with a dampness that was noticeable in the front and backyard of their property. They noticed it more in the evenings, Monday to Friday between 8-10 pm. Resident is near the Hungry Hollow trail and Silver Creek east of the facility. Operational staff walked around the facility perimeter October 9th, 2025, at 11:00 am and no odour was found. Staff walked the trail behind the facility across Silver Creek and could not detect any abnormal odours. Standby operator investigated the treatment plant and resident's area in the evening of Thursday October 9th (at 20:00 hrs. 9° C, 100° E to W wind at 7kn/hr., clear skies) and Friday October 10th (21:00 hrs. 16° C, 190° S to N wind at 12km/hr., Scattered showers) No abnormal conditions were observed, and no distinct odours were

Date	Type	Description	Plant Actions
			noticed. Staff noted the Resident has 2 maintenance holes, and 1 storm sewer catch basin at the end of their driveway.
			Investigation efforts and follow-up were discussed with the resident on October 14th, 2025. They were advised that, in the event the issue persists, they should contact 311 for further assistance
10/16/2025	Noise	Thursday October 16th, 2025, at 10:44 hrs., Georgetown WWTP personnel were notified that a noise complaint had been filed with 311 earlier that morning (9:40 hrs.) ECHO # 1-PNSCGH	Resident filed a noise complaint with 311 on Thursday October 16, 2025, at 9:40 hrs. Resident described the noise as a constant loud buzzing beginning Tuesday October 14th. The resident inquired about the type of work being performed and when it would be expected to end. It was noted that the noise could be heard all the way down to Argyle Road. On-call operator received the intake report at 10:44 hrs and discussed it with the team supervisor. The team supervisor contacted the resident by phone, at 12:13 hrs. to obtain further information. It was confirmed the noise could only be heard during the day between the hours of 7:30 and 15:00 hrs. and began Tuesday, October 14th, 2025. Operational staff determined the noise was the vacuum truck being used to remove the filter bed media as part of the filter building rehabilitation work. The team supervisor spoke to the contractor and informed them that a noise complaint had been filed. An estimated completion time was obtained. (Monday October 20, 2025- No Weekend work). The team supervisor contacted the resident at 13:06 hrs. and provided them with the estimated end date.

3.12 Condition 11 4.k – Partial Treatment Events

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;

The occurrence of a spill, by-pass or overflow result in the generation of an event report and entry into the operational log. These event(s) are listed in the following table(s).

Table 3.12-1 Plant Spill Event(s)

Date	ECHO #	Type	Start Time HH:MM	Duration (Minutes)	Volume (m³)	Disinfection (Y/N)	Cause Code
3/6/2025	1-ID6CKY	Spill	15:38	60	10	N/A	8
3/16/2025	1-J2JYUX	Spill	17:05	1,260	75	N/A	N/A
11/12/2025	1PRI22Y	Spill	12:40	30	3	N/A	8

Table 3.12-2 Plant Bypass Event(s)

Date	ECHO #	Type	Start Time HH:MM	Duration Mins	Volume (m ³)	Disinfection (Y/N)	Cause Code
4/3/2025	1-N7PAL0	Tertiary	07:58	1,271	41,636.5	Y	1, 2
8/7/2025	1-PAGBWF	Disinfection	10:10	10	500	N	3, 6

Table 3.12-3 Plant Overflow Event(s)

Date	ECHO #	Type	Start Time HH:MM	Duration Mins	Volume (m ³)	Disinfection (Y/N)	Cause Code
4/3/2025	1-N7D8U1	Raw Sewage	2:10	730	3,820.1	N	1, 2
12/28/2025	1-PYPU1S	Raw Sewage	21:48	52	534	N	1,2

Cause Codes for Partial Treatment Events

1 = Heavy Precipitation

4 = Equipment Maintenance

7 = Exceed Design

2 = Snow Melt

5 = Sewer Problems

8 = Other

3 = Equipment Failure

6 = Power Failure

3.13 Condition 11 4.I – Notices of Modification

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.

Halton Region monitors, maintains, and replaces existing assets based on condition, age, risk and/or use as part of the state of good repair program or as identified in the master plan.

There were no Notice of Modification submitted in 2025.

3.14 Condition 11 4.m – Conformance with Procedure F-5-1

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.

As a nominally separated sewer system, details about current or future projects related to the sanitary collection system within Halton Region's Wastewater Collection System ECA (004-W601) that relates to bypass/overflow can be found in the Wastewater Collection Systems Performance Report.

3.15 Condition 11 4.n – Construction & Commissioning Schedule Updates

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.

The following project in the Proposed Works is currently in the design phase.

- upgrade of electrical and control, including SCADA integration, replacement of related instrumentation, replacement of lighting panel, transformer and MCC, and upgrade of existing feed breaker and feeder;

4. Mid-Halton Wastewater System

4.1 System Description

The Mid-Halton WWTP is located at 2195 North Service Road in Oakville. The Mid-Halton WWTP is an advanced secondary treatment plant consisting of screening, grit removal, primary clarification, anoxic/aerobic activated sludge, final clarification, two-stage anaerobic digestion, along with solids thickening and dewatering. Ferric chloride is used for phosphorus removal. Sodium hydroxide and magnesium hydroxide are used for pH and alkalinity adjustments respectively. UV light is used for seasonal disinfection of the final effluent from Mid-Halton prior to discharge to Lake Ontario. The Mid-Halton WWTP system information is provided in Table 4.1-1.

Table 4.1-1 Mid-Halton System Information

Municipal Wastewater System Works Number		120002282
Classification		
Treatment Facility		Class 4
Certificate #		2626
Collection System		Class 3
Certificate #		554
Environmental Compliance Approvals		
Type	ECA Number	Date of Issue
Sewage Works	7714-DBKUA6	December 13, 2024
Air & Noise	5280-9V5SK9	May 25, 2015

4.2 Condition 10 6.a – Effluent Flow Monitoring

a summary and interpretation of all monitoring data and a comparison to the effluent limits outlined in Condition 7, including an overview of the success and adequacy of the Works

The annual effluent flow summary is outlined in Figure 4.7-1. See **Appendix Mid-Halton 1** for additional details on monthly effluent wastewater flows over the reporting period, and **Appendix Mid-Halton 3** for all analyses performed.

Figure 4.2-1 Plant Effluent Flow Summary

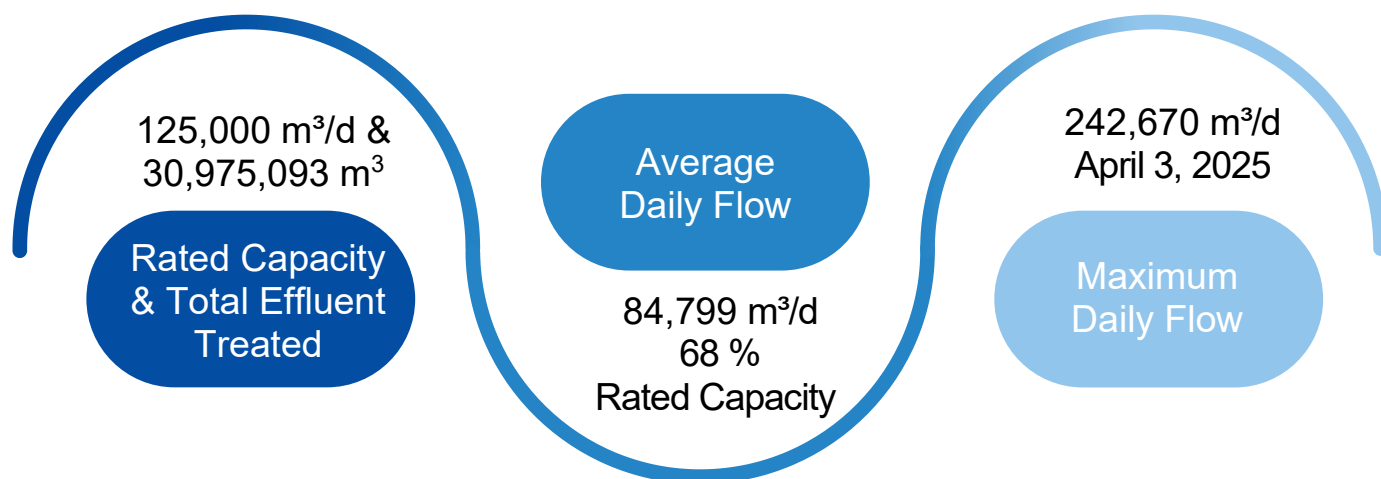


Table 4.2-1 presents the annual summary of compliance and demonstrates the adequacy of the works. This data demonstrates how the facility met the compliance limits throughout the year, and the percentages are calculated using the prescribed averaging calculators from the ECA.

Table 4.2-1 Annual Summary of Compliance Results

Results Within Limits*	
CBOD – 25 mg/L	100%
TSS – 25 mg/L	100%
TP – 0.8 mg/L	100%
TAN – 10/20 mg/L**	100%
E.Coli – 200 CFU/100ml***	100%
pH – 6.0-9.5	99%

* Statistics are based on the averaging calculator from Section 7 of the ECA.

** TAN Season: May to November – Limit: 10 mg/L, December to April – Limit: 20 mg/L

*** E.coli sampling and reporting occurs during the period of May 1 to October 31

4.3 Condition 10 6.b – Operating Issues & Corrective Actions

a description of any operating problems encountered and corrective actions taken:

Table 4.3-1 illustrates the operating issues and corrective actions taken by operations.

Table 4.3-1 Operating Issues & Corrective Actions

Issue	Date	Causes	Corrective Actions
Effluent Total Phosphorous elevated – Regional Lab	Multiple days throughout the year.	Plant loading issues to process.	Adjusted plant process and coagulant (Ferric Chloride) dosage to each train accordingly.

Issue	Date	Causes	Corrective Actions
Compliance Sampling			
Plant flow exceeded rated capacity	Multiple days throughout the year.	High precipitation and snow melt	No adverse impact. Plant processes were monitored to ensure effective treatment.
Final Effluent Low pH	Multiple days throughout the year.	Low flows due to lack of precipitation, increased dewatering activities at the plant	Increased Magnesium Hydroxide and Sodium Hydroxide dosing.
Initiation of Project for Magnesium Hydroxide System Upgrades	1/27/2025	Replacement of mixing and pumping equipment used for alkalinity and pH adjustments due to age and condition.	Alternative alkalinity addition using sodium hydroxide onsite was utilized to maintain effluent pH.
Pumping Station equipment failure: Third Line Pumping Station	3/11/2025	SLP #2 was taken out of service due to a mechanical failure with the check valve. The pump needed to be isolated as the sewage was draining back from the force main into the wet well through the faulty check valve.	Check valve was repaired and placed back in service, March 13 th , 2025.
Mechanical Bar Screen Failures	Multiple days throughout the year.	Bar screens were removed from service on various dates, due to mechanical failures and equipment damage.	Repairs were completed, and the associated bar screens were placed back into operation.
Primary and Secondary Clarifier mechanical breakdowns	Multiple tanks and days throughout the year.	Clarifiers were removed from service due to various mechanical failures on collector equipment within the tanks.	Repairs were completed, and the associated clarifiers were placed back into operation.
Emergency Generator	7/15/2025	Removed from service to repair faulty batteries on the generator.	Repairs were completed on the generator batteries and placed back in operation on July 18 th , 2025.
Aeration Tank mechanical breakdowns	Multiple tanks and days throughout the year.	Removed from service due to various mechanical failures within the aeration tanks.	Repairs completed and the associated aeration tanks were placed back into operation.
Various Power	Multiple days	Blackout/Brownouts in	Reset all equipment once power

Issue	Date	Causes	Corrective Actions
Outages in facility for short durations.	throughout the year.	Oakville from grid	restored to the facility.
Process Laboratory pH meter calibration	Weekly	Calibration performed in accordance with Work Instruction Q-WI-199	N/A

4.4 Condition 10 6.c – Maintenance

a summary of all maintenance carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Works:

The Water and Wastewater Treatment Division has developed a maintenance management program for plant works at the WWTP. This program is executed by treatment plant maintenance and SCADA staff. State of good repair work performed by the Plant Capital and Engineering staff is not reported.

Table 4.4-1 lists the number of normal activities, emergency repairs and maintenance activities completed by treatment plant maintenance and SCADA staff at the WWTP for the year. The Water and Wastewater Treatment Division aligns current maintenance language with ECA language, as follows:

- Normal activities are all planned or unplanned work that is not classified as a Breakdown or an Unplanned Request
- Emergency repairs are all breakdown work order types that result in downtime of a process area or the plant
- Maintenance activities are all planned and unplanned works, from all order types

Table 4.4-1 Maintenance Work

Normal Activities	Emergency Repairs	Maintenance Activities
1,262	4	1,723

Due to the volume of workorders and related transactional data for the works, this information is not included as part of this report, however, the information is provided on a weekly basis to operational staff at each plant as part of the maintenance management asset care process.

4.5 Condition 10 6.d – Quality Assurance and Control Measures

a summary of any effluent quality assurance or control measures undertaken in the reporting period:

4.5.1 Quality Assurance

To ensure the quality of the data collected by operations, the following criteria are in place.

- Operations perform daily in house testing on the parameters set in the ECA
- Optimization sampling at every process
- A monitoring schedule is set up by the accredited Regional Lab

- Process data is collected electronically
- SCADA collects real time data, monitors and stores data for future analysis
- Participation in the AWWA Partnership for Clean Water program

4.5.2 Control Measures

The following control measures are in place at the Mid-Halton WWTP

- Daily reports are used to analyze trends and determine if changes are necessary
- Online analyzers reviewed to ensure complete treatment at various process stages
- Compliance instruments are calibrated to ensure accuracy
- Equipment redundancy throughout the plant to ensure treatment can be achieved in the event of normal maintenance, emergencies and breakdowns
- Thin clients are stationed throughout the plant to allow operations to access SCADA as to control equipment and assess real time conditions
- Work instruction and standard operating procedures are developed to aid operations
- Phosphorous precipitation is achieved using ferric chloride
- Magnesium hydroxide and sodium hydroxide are used for pH adjustment

4.6 Condition 10 6.e – Calibration & Maintenance of Monitoring Equipment

a summary of the calibration and maintenance carried out on all effluent monitoring equipment

The equipment used to monitor wastewater influent/effluent flows and key parameters must be maintained and checked throughout the year to ensure accurate readings. The equipment used for flow monitoring is calibrated yearly by Halton's Maintenance staff. Halton's Maintenance team aims to complete regulatory equipment calibrations within 12 months of the last calibration. At a minimum, regulatory equipment is calibrated at least once per calendar year and at least five months after the most recent calibration, per the Canadian Wastewater Systems Effluent Regulations (SOR/2012-139). Therefore, all the equipment was found to be within acceptable limits in 2025. The equipment used for monitoring the parameters listed in ECA Schedule D Monitoring Program, with the exception of the Final Effluent pH, is calibrated by the Region's Regional Laboratory. The Final Effluent pH is monitored by the in-plant process laboratory pH meter. This device is field calibrated weekly by Halton's Operations staff. Raw and Final Effluent Autosamplers are maintained by Operations to ensure that the samples are representative.

Table 4.6-1 shows the calibration date of the equipment below.

Table 4.6-1 Calibration

Instrument Description	SAP #	2025 Calibration	2024 Calibration
TRANSMITTER FLOW SEC. CLAR.#1 EFFLUENT	210110	06/2025	06/2024
TRANSMITTER FLOW SEC. CLAR.#2 EFFLUENT	210111	06/2025	06/2024
TRANSMITTER FLOW SEC. CLAR.#3 EFFLUENT	210112	06/2025	06/2024
TRANSMITTER FLOW SEC. CLAR.#4 EFFLUENT	210113	06/2025	06/2024
TRANSMITTER FLOW SEC. CLAR.#5 EFFLUENT	210114	06/2025	06/2024
TRANSMITTER FLOW SEC. CLAR.#6 EFFLUENT	210115	06/2025	06/2024

Instrument Description	SAP #	2025 Calibration	2024 Calibration
TRANSMITTER FLOW SECONDARY CLARIFIER #7	221870	06/2025	06/2024
TRANSMITTER FLOW SECONDARY CLARIFIER #8	235922	06/2025	06/2024
TRANSMITTER PARSHALL FLUME SEC. TANK 9	231760	06/2025	06/2024
TRANSMITTER PARSHALL FLUME SEC. TANK 10	231761	06/2025	06/2024
TRANSMITTER PARSHALL FLUME SEC. TANK 11	231762	06/2025	06/2024
TRANSMITTER PARSHALL FLUME SEC. TANK 12	231763	06/2025	06/2024

4.7 Condition 10 6.f – Efforts Made to Achieve Effluent Objective

a description of efforts made and results achieved in meeting the Effluent Objectives of Condition 6.

See **Appendix Mid-Halton 1** for additional details on monthly effluent wastewater flows over the reporting period.

4.7.1 Analytical Results

The monthly analysis results are provided in **Appendix Mid-Halton 2**, and all analysis results are presented in **Appendix Mid-Halton 3**.

Table 4.7-1 presents the annual summary of compliance and demonstrates the adequacy of the works. This data demonstrates how the facility met the compliance objectives throughout the year, and the percentages are calculated using the prescribed averaging calculators from the ECA.

Table 4.7-1 Annual Summary of Compliance Results

Results Within Objectives*,**	
CBOD – 15 mg/L	100%
TSS – 15 mg/L	100%
TP – 0.6 mg/L	92%
TAN – 6.0/10 mg/L **	100%
E.Coli – 150 CFU/100ml***	100%
pH – 6.5-9.0	99%

* The operating authority “shall use their best effort to maintain” and does not represent non-compliance

** TAN Season: May to November – 6 mg/L, December to April – 10 mg/L

*** E.coli sampling and reporting occurs during the period of May 1 to October 31

4.8 Condition 10 6.g – Biosolids

a tabulation of the volume of sludge generated in the reporting period, 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:

The annual biosolids production and forecast for the following year is presented in Table 4.8-1. The dewatered biosolids were taken to agricultural land for crop production, sent to an approved processing facility prior to land application or sent to an approved reclamation facility.

Table 4.8-1 Mid-Halton Biosolids Production & Forecast

Material	Produced	2026 Forecasted
Biosolids (w.t.)	15,218	12,615

Mid-Halton WWTP supplied WAS to seed the Burlington Skyway WWTP during a process upset and the volume is represented in Table 4.8-2

Table 4.8-2 WAS Hauled Off Site for Process Reseeding

Material	Hauled Off-Site to Skyway	2026 Forecasted
WAS (m ³)	1,520	0

4.9 Condition 10 6.h – Complaints

a summary of any complaints received during the reporting period and any steps taken to address the complaints;

There were no complaints received at the plant in 2025.

4.10 Condition 10 6.i – Partial Treatment Events

a summary of all By-pass, spill or abnormal discharge events;

The occurrence of a spill, by-pass or overflow result in the generation of an event report and entry into the operational log. These event(s) are listed in the following table(s).

There were no bypasses, spills or overflows in 2025. There was one effluent pH ECA limit exceedance, which is captured in the table below.

Table 4.10-1 Plant Event(s)

Date	ECHO #	Type	Start Time HH:MM	Duration (Minutes)	Volume (m ³)	Disinfection (Y/N)	Cause Code
2/5/2025	1-H1EW1D	Effluent pH result outside ECA limit	14:24	2.78	N/A	N/A	N/A

Cause Codes for Partial Treatment Events

1 = Heavy Precipitation

4 = Equipment Maintenance

7 = Exceed Design

2 = Snow Melt

5 = Sewer Problems

8 = Other

Cause Codes for Partial Treatment Events	
3 = Equipment Failure	6 = Power Failure

4.11 Condition 10 6.j – Notices of Modifications

a copy of all Notice of Modifications submitted to the Water Supervisor as a result of Schedule B, Section 1, with a status report on the implementation of each modification;

Halton Region monitors, maintains, and replaces existing assets based on condition, age, risk and/or use as part of the state of good repair program or as identified in the master plan.

There were no new Notice of Modifications submitted in 2025. The status of the projects related to previously submitted Notice of Modifications are below.

Table 4.11-1 Notices of Modifications

Projects	Project ID	Approval Date	Status
Mid-Halton WWTP Magnesium Hydroxide System Upgrades Project in the Town of Oakville	PR3234E	11/17/2023	Under Construction
Mid-Halton WWTP Digester 1 Rehabilitation	S3418A	7/5/2024	Under Construction

4.12 Condition 10 6.k – Modifications

a report summarizing all modifications completed as a result of Schedule B, Section 3:

Please refer to **Section 4.4 Condition 10 6.c – Maintenance** for addition information.

4.13 Condition 10 6.l – Other Information Requests

any other information the Water Supervisor requires from time to time.

The Mid-Halton WWTP responds to any requests for information from the Water Supervisor as soon as they are brought forth.

There were no requests for additional information in 2025.

5. Oakville Southeast Wastewater System

5.1 System Description

The Oakville Southeast WWTP is located at 2477 Lakeshore Road East in the Town of Oakville. The Oakville Southeast WWTP is a secondary treatment plant consisting of screening, grit removal, primary clarification, activated sludge, final clarification, and two-stage anaerobic digestion. Ferric chloride is used for phosphorus removal and UV light for seasonal disinfection, before the final effluent is discharged into Lake Ontario. The Oakville Southeast WWTP system information is provided in Table 5.1-1.

Table 5.1-1 Oakville Southeast System Information

Municipal Wastewater System Works Number		120000998
Classification		
Treatment Facility		Class 4
Certificate #		555
Collection System		Class 2
Certificate #		554
Environmental Compliance Approvals		
Type	ECA Number	Date of Issue
Sewage Works	7905-CBGS55	April 3, 2022
Air & Noise	1189-9XUJQZ	July 27, 2015

5.2 Condition 11 4.a – Influent Flow Monitoring & Imported Sewage

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;

5.2.1 Interpretation of Influent Flow

Influent sewage characteristics for this reporting period can be found in **Appendices Southeast 1, Southeast 2 & Southeast 3**. Historical data of the characteristics of the influent flow can be seen in table 5.2-1 below.

Table 5.2-1 Historical Data

Influent Annual Average	Units	2021	2022	2023	2024	2025
Total Flow	ML	5,689.612	5,628.285	6,363.746	6,058.234	5,875.449
Average Flow	MLD	15.588	15.420	17.435	16.548	16.086
BOD5	mg/L	251	283	281	230	263
BOD5 Loading	kg/day	3,901.5	4,230.0	4,762.6	3,689.7	4,144.8
TSS	mg/L	310.0	388.3	357.5	294.3	358.3
TSS Loading	kg/day	4,796.5	5,929.6	6,246.9	4,676.7	5,663.2
TKN	mg/L	41.7	50.3	42.1	40.3	47.9
TKN Loading	kg/day	645.6	753.7	713.4	653.9	762.1
TP	mg/L	5.28	6.15	5.97	5.17	6.07
TP Loading	kg/day	81.99	91.94	101.21	84.05	96.64

Minor discrepancies may occur because of rounding.

5.2.2 Imported Sewage

The Southeast WWTP did not receive any imported sewage in 2025.

5.3 Condition 11 4.b – Effluent Flow Monitoring

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;

5.3.1 Effluent Monitoring Data

See **Appendices Southeast 1, Southeast 2 & Southeast 3** for details on monthly wastewater effluent flows, concentrations and loading rates over the reporting period.

5.4 Condition 11 4.c – Operating Issues & Corrective Actions

a summary of all operating issues encountered and corrective actions taken;

Table 5.4-1 illustrates the operating issues and corrective actions taken by operations.

Table 5.4-1 Operating Issues & Corrective Actions

Issue	Date	Causes	Corrective Actions
Uneven loading into facility: High TSS, TP and heavy FOG	Multiple days (Constant throughout the year)	Flat slope for incoming gravity sewers – heavy industrial loading	Plant Process – Open bypass gates in the Distribution Chamber two (2) days a week on average to help reduce build up. Gravity Sewers – Initiated a gravity sewer flushing program to flush both

Issue	Date	Causes	Corrective Actions
			gravity sewers on a scheduled monthly basis.
Major surfactant loading	Multiple days (Constant throughout the year). Notable Dates: March 28, June 3	Industrial loading	Plant processes were monitored to ensure effective treatment. Suppress foam by hosing. Samples collected and Industrial Waste was notified.
Biosolids Process Emission Control	1/23/2025	Unit tripping on differential pressure caused by condensation freezing around intake/filter area due to extreme cold weather.	Condensate drain was installed to prevent issue from recurring in the future.
Plant flow exceeded rated capacity	Multiple days throughout the year	High precipitation and/or snow melt	No adverse impact to final effluent quality. Step feed was implemented, and Plant processes were monitored to ensure effective treatment.
Plant #3 Secondary Collector's	9/19/2025	Chain broke in middle pass and fell off sprockets	Isolated Plant #3. Flow diverted to Plant 1S, 1N, 2S & 2N. Axiom (contractors) making repairs and replacement of broken chain and flights
Process Laboratory pH meter calibration	Weekly	Calibration performed in accordance with Work Instruction Q-WI-199	N/A

5.5 Condition 11 4.d – Maintenance

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:

The Water and Wastewater Treatment Division has developed a maintenance management program for plant works at the WWTP. This program is executed by treatment plant maintenance and SCADA staff. State of good repair work performed by the Plant Capital and Engineering staff is not reported.

Table 5.5-1 lists the number of normal activities, emergency repairs and maintenance activities completed by treatment plant maintenance and SCADA staff at the WWTP for the year. The wastewater division aligns current maintenance language with ECA language, as follows:

- Normal activities are all planned or unplanned work that is not classified as a Breakdown or an Unplanned Request
- Emergency repairs are all breakdown work order types that result in downtime of a process

- area or the plant
- Maintenance activities are all planned and unplanned works, from all order types

Table 5.5-1 Maintenance Work

Normal Activities	Emergency Repairs	Maintenance Activities
767	0	898

Due to the volume of workorders and related transactional data for the works, this information is not included as part of this report, however, the information is provided on a weekly basis to operational staff at each plant as part of the maintenance management asset care process.

5.6 Condition 11 4.e – Quality Assurance and Control Measures

a summary of any effluent quality assurance or control measures undertaken;

5.6.1 Quality Assurance

To ensure the quality of the data collected by operations, the following criteria are in place.

- Operations perform daily in house testing on the parameters set in the ECA
- Optimization sampling at every process
- A monitoring schedule is set up by the accredited Regional Lab
- Process data is collected electronically
- SCADA collects real time data, monitors and stores data for future analysis
- Participation in the AWWA Partnership for Clean Water program

5.6.2 Control Measures

The following control measures are in place at the Southeast WWTP

- Daily reports are used to analyze trends and determine if changes are necessary
- Online analyzers reviewed to ensure complete treatment at various process stages
- Compliance instruments are calibrated to ensure accuracy
- Equipment redundancy throughout the plant to ensure treatment can be achieved in the event of normal maintenance, emergencies and breakdowns
- Thin clients are stationed throughout the plant to allow operations to access SCADA as to control equipment and assess real time conditions
- Work instruction and standard operating procedures are developed to aid operations
- Phosphorous precipitation is achieved by using Ferric Chloride

5.7 Condition 11 4.f – Calibration & Maintenance of Monitoring Equipment

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

The equipment used to monitor wastewater influent/effluent flows and key parameters must be

maintained and checked throughout the year to ensure accurate readings. The equipment used for flow monitoring is calibrated yearly by Halton's Maintenance staff. Halton's Maintenance team aims to complete regulatory equipment calibrations within 12 months of the last calibration. At a minimum, regulatory equipment is calibrated at least once per calendar year and at least five months after the most recent calibration, per the Canadian Wastewater Systems Effluent Regulations (SOR/2012-139). Therefore, all the equipment was found to be within acceptable limits in 2025. The equipment used for monitoring the parameters listed in ECA Schedule D Monitoring Program, with the exception of the Final Effluent pH, is calibrated by the Region's Regional Laboratory. The Final Effluent pH is monitored by the in-plant process laboratory pH meter. This device is field calibrated weekly by Halton's Operations staff. Raw and Final Effluent Autosamplers are maintained by Operations to ensure that the samples are representative.

Table 5.7-1 shows the calibration date of the equipment below.

Table 5.7-1 Calibration

Instrument Description	SAP #	2025 Calibration	2024 Calibration
TRANSMITTER FLOW FINAL EFFLUENT PLANT #1	236243	06/2025	06/2024
TRANSMITTER FLOW FINAL EFFLUENT PLANT #2	234124	06/2025	06/2024
TRANSMITTER FLOW FINAL EFFLUENT PLANT #3	234158	06/2025	06/2024
TRANSMITTER FLOW PARSHALL FLUME FINALS	234207	06/2025	06/2024

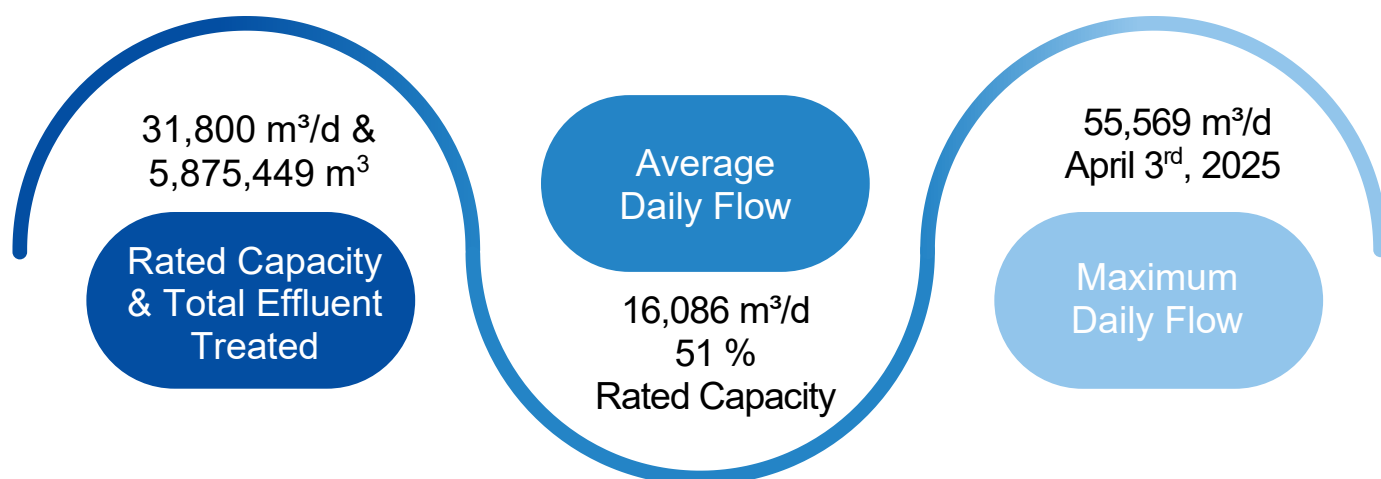
5.8 Condition 11 4.g – Efforts Made to Achieve Design Objective

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;

The annual effluent flow summary is outlined in Figure 5.8-1. See **Appendix Southeast 1** for additional details on monthly influent and effluent wastewater flows over the reporting period.

Figure 5.8-1 Effluent Flow Summary



5.8.1 Analytical Results

The monthly analysis results are provided in **Appendix Southeast 1 and 2**, and all analysis results are provided in **Appendix Southeast 3**.

Table 5.8-1 presents the annual summary of compliance and demonstrates the adequacy of the works. This data demonstrates how the facility met the compliance objectives throughout the year, and the percentages are calculated using the prescribed averaging calculators from the ECA.

Table 5.8-1 Annual Summary of Compliance Results

Results Within Limits*		Results Within Objectives*,**	
CBOD – 25 mg/L	100%	CBOD – 15 mg/L	100%
TSS – 25 mg/L	100%	TSS – 15 mg/L	100%
TP – 1.0 mg/L	100%	TP – 0.8 mg/L	92%
E.Coli – 200 CFU/100ml***	100%	E.Coli – 150 CFU/100ml***	100%
pH – 6.0-9.5	100%	pH – 6.5-9.0	87%
TP Loading – 31.8 kg/d	100%		

* Statistics are based on the averaging calculator from Schedule B and C of the ECA.

** The operating authority “shall use their best effort to maintain” and does not represent non-compliance

*** E.coli sampling and reporting occurs during the period of May 1 to October 31

5.9 Condition 11 4.h – Biosolids

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:

The annual biosolids production and forecast for the following year is presented in Table 5.9-1. The biosolids are taken to the BMC for temporary storage, blending and thickening prior to land application and/or dewatering. The volume of raw sludge hauled offsite for stabilization and the forecast for the following year are presented in Table 5.9-1

Table 5.9-1 Southeast Biosolids Production & Forecast

Material	Produced	2026 Forecasted
Biosolids (m ³)	43,188	48,000

5.10 Condition 11 4.i – Complaints

a summary of any complaints received and any steps taken to address the complaints:

The complaints received at the Southeast WWTP for this reporting period are summarized in Table 5.10-1 below. Plant Operations staff respond to each complaint with a thorough investigation and appropriate corrective action.

Table 5.10-1 Complaints Summary

Date	Type	Description	Plant Actions
Multiple days throughout the year	Odour	Multiple odour complaints from nearby resident, who typically complained of a strong sewage odour coming from the facility, usually in the evenings (ECHO # 1-PCE8XM)	Each complaint triggered an investigation to confirm temperature, wind direction and if there was anything going on at the plant that may have caused the abnormal odour conditions. All investigations determined that there were no abnormal conditions or specific causes at the plant that would have created the pungent odours described coming from the plant. The Region initiated a flushing program of the gravity mains, which varied from bi-weekly to monthly depending on time of year. The Region also continued to advance capital projects identified for the OKSE WWTP aimed at mitigating odours at the plant. In December 2025, some landscaping improvements were made in the park area just behind the resident's home to mitigate potential odours from the treatment plant with a natural wind screen. For the December event, Halton staff followed up with the Town of Oakville regarding their typical stock pile of leaves in the park (Case #918384). Town staff confirmed and removed the pile.

Date	Type	Description	Plant Actions
			Halton Region also initiated a pilot project looking at the proficiency of degrading FOG in the collection system before it gets to the plant. This trial will be completed in 2026.

5.11 Condition 11 4.j – Partial Treatment Events

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;

The occurrence of a spill, by-pass or overflow result in the generation of an event report and entry into the operational log. These event(s) are listed in the following table(s).

There were no bypasses or overflows in 2025. Spills that occurred are presented in the table below.

Table 5.11-1 Plant Spill Event(s)

Date	ECHO #	Type	Start Time HH:MM	Duration (Minutes)	Volume (m ³)	Disinfection (Y/N)	Cause Code
3/28/2025	1-MXNXHC	Spill	07:00	300 – 330	550	N/A	N/A
5/8/2025	1-O7VTEA	Spill	N/A	5	1	N/A	N/A
6/3/2025	1-OIMRN0	Spill	07:30	240	100	N/A	N/A

Cause Codes for Partial Treatment Events		
1 = Heavy Precipitation	4 = Equipment Maintenance	7 = Exceed Design
2 = Snow Melt	5 = Sewer Problems	8 = Other
3 = Equipment Failure	6 = Power Failure	

5.12 Condition 11 4.k – Notices of Modifications

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.

Halton Region monitors, maintains, and replaces existing assets based on condition, age, risk and/or use as part of the state of good repair program or as identified in the master plan.

Table 5.12-1 Notices of Modifications

Projects	Project ID	Approval Date	Status
Oakville Southeast WWTP Digester #1 and #4 Rehabilitation and Upgrades	PR3423A	5/12/2025	Under Construction

5.13 Condition 11 4.l – Conformance with Procedure F-5-1

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.

As a nominally separated sewer system, details about current or future projects related to the sanitary collection system within Halton Region's Wastewater Collection System ECA (004-W601) that relates to bypass/overflow can be found in the Wastewater Collection Systems Performance Report.

5.14 Condition 11 4.m – Completion of Construction & Commissioning

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.

The Proposed Works related to the Ninth Line Wastewater Pumping Station from the Southeast WWTP ECA are completed.

5.15 Condition 11 4.n – Monitoring Schedule

a summary of any deviation from the monitoring schedule and reasons for the current reporting year and a schedule for the next reporting year.

In 2025, there were no deviations from the current monitoring schedule. Table 5.15-1 shows the monitoring schedule for Southeast WWTP.

Table 5.15-1 Monitoring Schedule

Sample	Minimum Frequency	Analysis Performed
Raw Sewage***	Weekly	BOD5, TSS, TP, TKN
Final Effluent	Weekly	CBOD5***, TSS***, TP, TAN, E.coli, pH*, Temp*, Unionized Ammonia**
Imported Sewage	Weekly	BOD5, TSS, TP, TKN
Sludge/Biosolids†	Monthly	TS, TP, TAN, NO ₃ , Metal Scan

*pH and temperature of the Final Effluent shall be determined in the field at the time of sampling for Total Ammonia Nitrogen.

**The concentration of un-ionized ammonia shall be calculated using the total ammonia concentration, pH and temperature using the methodology stipulated in "Ontario's Provincial Water Quality Objectives" dated July 1994, as amended.

*** The ECA minimum frequency is monthly for these parameters.

† The ECA minimum frequency is annually for these parameters.

6. Oakville Southwest Wastewater System

6.1 System Description

The Oakville Southwest WWTP is located at 1385 Lakeshore Road West, in the Town of Oakville. The Oakville Southwest WWTP is a conventional secondary treatment plant consisting of screening, raw sewage pumping, grit removal, primary clarification, activated sludge, and final clarification. Ferric chloride is used for phosphorus removal. UV light provides seasonal disinfection of the final effluent from Oakville Southwest before discharge into Lake Ontario. The Oakville Southwest WWTP system information is provided in Table 6.1-1.

Table 6.1-1 Oakville Southwest System Information

Municipal Wastewater System Works Number		120001005
Classification		
Treatment Facility		Class 4
Certificate #		556
Collection System		Class 2
Certificate #		554
Environmental Compliance Approvals		
Type	ECA Number	Date of Issue
Sewage Works	4966-CKMJM5	February 8, 2023
Air & Noise	2786-D8DPM4	October 9, 2024

6.2 Condition 11 4.a – Influent Flow Monitoring & Imported Sewage

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;

6.2.1 Interpretation of Influent Flow

Influent sewage characteristics for this reporting period can be found in **Appendices Southwest 1, Southwest 2 & Southwest 3**. Historical data of the characteristics of the influent flow can be seen in table 6.2-1 below.

Table 6.2-1 Historical Data

Influent Annual Average	Units	2021	2022	2023	2024	2025
Total Flow	ML	8,604.724	7,693.766	9,173.936	8,824.683	7,545.508
Average Flow	MLD	23.575	21.079	25.134	24.101	20.657
BOD5	mg/L	112	142	148	160	176
BOD5 Loading	kg/day	2,630.3	2,953.3	3,605.8	3,775.2	3,510.9
TSS	mg/L	150.0	192.5	192.5	199.2	220.8
TSS Loading	kg/day	3,561.4	4,004.9	4,833.1	4,699.4	4,501.2
TKN	mg/L	23.2	33.0	31.0	33.1	39.1
TKN Loading	kg/day	545.7	692.6	751.9	781.2	780.3
TP	mg/L	2.75	3.83	3.72	3.86	4.30
TP Loading	kg/day	64.52	79.45	90.64	90.62	86.12

Minor discrepancies may occur because of rounding.

6.2.2 Imported Sewage

The Southwest WWTP did not receive any imported sewage in 2025.

6.3 Condition 11 4.b – Effluent Flow Monitoring

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;

6.3.1 Effluent Monitoring Data

See **Appendices Southwest 1, Southwest 2 & Southwest 3** for details on monthly wastewater effluent flows, concentrations and loading rates over the reporting period.

6.4 Condition 11 4.c – Operating Issues & Corrective Actions

a summary of all operating issues encountered and corrective actions taken;

Table 6.4-1 illustrates the operating issues and corrective actions taken by operations.

Table 6.4-1 Operating Issues & Corrective Actions

Issue	Date	Causes	Corrective Actions
High Flow Events due to rain event.	Multiple days throughout the year	High precipitation and/or snow melt	Stepfeed used to treat high lows and minimize washout. In some instances, storm water diverted into Rebecca Storage tank to prevent overflow at 4th line, and peak flows diverted into Storm Equalization tank

Issue	Date	Causes	Corrective Actions
Plugged pipe	4/9/2025	Scaling build up in the Cleaning line restrictions due to Struvite buildup	Rydlyme was used to flush and clean out pipe. Sludge was flushed out and drained. Rydlyme was fed in and recirculated for 24 hours.
Loss of power	5/7/2025 12/22/2025 12/22/2025	Ground fault- north switchgear.	Equipment causing the fault was located, one was an EQ blower, the other was a Flow splitter mixer. The power was restored when it was lost. The issues were repaired and the equipment was placed back in service.
Poor settling in clarifiers	4/21/2025 1/27/2025	Sludge bulking event reduced settling in clarifiers	SVI high, filaments in sludge. Return rates increased during event to prevent denitrification in the secondary clarifier and adapted mass temporarily. When sludge improved, process changes were returned to normal.
Struvite buildup in return WAS pipes	3/4/202	Mixing of raw sludge with heated sludge from digester is promoting scaling in the pipes.	Raw primary sludge was separated from heated sludge going to the in service digester. This will reduce struvite build up in pipes. This will also prevent raw sludge debris from plugging the heating recirculation line and increase the pumping capacity of raw sludge pumps that were struggling when struvite builds up.
Process Laboratory pH meter calibration	Weekly	Calibration performed in accordance with Work Instruction Q-WI-199	N/A

6.5 Condition 11 4.d – Maintenance

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:

The Water and Wastewater Treatment Division has developed a maintenance management program for plant works at the WWTP. This program is executed by treatment plant maintenance and SCADA staff. State of good repair work performed by the Plant Capital and Engineering staff is not reported.

Table 6.5-1 lists the number of normal activities, emergency repairs and maintenance activities completed by treatment plant maintenance and SCADA staff at the WWTP for the year. The Water and Wastewater Division aligns current maintenance language with ECA language, as follows:

- Normal activities are all planned or unplanned work that is not classified as a Breakdown or an Unplanned Request
- Emergency repairs are all breakdown work order types that result in downtime of a process area or the plant
- Maintenance activities are all planned and unplanned works, from all order types

Table 6.5-1 Maintenance Work

Normal Activities	Emergency Repairs	Maintenance Activities
918	0	1,011

Due to the volume of workorders and related transactional data for the works, this information is not included as part of this report, however, the information is provided on a weekly basis to operational staff at each plant as part of the maintenance management asset care process.

6.6 Condition 11 4.e – Quality Assurance and Control Measures

a summary of any effluent quality assurance or control measures undertaken;

6.6.1 Quality Assurance

To ensure the quality of the data collected by operations, the following criteria are in place.

- Operations perform daily in house testing on the parameters set in the ECA
- Optimization sampling at every process
- A monitoring schedule is set up by the accredited Regional Lab
- Process data is collected electronically
- SCADA collects real time data, monitors and stores data for future analysis
- Participation in the AWWA Partnership for Clean Water program

6.6.2 Control Measures

The following control measures are in place at the Southwest WWTP

- Daily reports are used to analyze trends and determine if changes are necessary
- Online analyzers reviewed to ensure complete treatment at various process stages
- Compliance instruments are calibrated to ensure accuracy
- Equipment redundancy throughout the plant to ensure treatment can be achieved in the event of normal maintenance, emergencies and breakdowns
- Thin clients are stationed throughout the plant to allow operations to access SCADA to control equipment and assess real time conditions
- Work instruction and standard operating procedures are developed to aid operations
- Phosphorous precipitation is achieved using ferric chloride

6.7 Condition 11 4.f – Calibration & Maintenance of Monitoring Equipment

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

The equipment used to monitor wastewater influent/effluent flows and key parameters must be maintained and checked throughout the year to ensure accurate readings. The equipment used for flow monitoring is calibrated yearly by Halton's Maintenance staff. Halton's Maintenance team aims to complete regulatory equipment calibrations within 12 months of the last calibration. At a minimum, regulatory equipment is calibrated at least once per calendar year and at least five months after the

most recent calibration, per the Canadian Wastewater Systems Effluent Regulations (SOR/2012-139). Therefore, all the equipment was found to be within acceptable limits in 2025. The equipment used for monitoring the parameters listed in ECA Schedule D Monitoring Program, with the exception of the Final Effluent pH, is calibrated by the Region's Regional Laboratory. The Final Effluent pH is monitored by the in-plant process laboratory pH meter. This device is field calibrated weekly by Halton's Operations staff. Raw and Final Effluent Autosamplers are maintained by Operations to ensure that the samples are representative.

Table 6.7-1 shows the calibration date of the equipment below.

Table 6.7-1 Calibration

Instrument Description	SAP #	2025 Calibration	2024 Calibration
TRANSMITTER FLOW RAW SEWAGE INFLUENT	204113	06/2025	06/2024
TRANSMITTER FLOW FINAL EFF.PLANT 3 SOUTH	207106	06/2025	06/2024
TRANSMITTER FLOW FINAL EFF.PLANT 3 NORTH	207107	06/2025	06/2024
TRANSMITTER FLOW FINAL EFF.PLANT 4 SOUTH	207109	06/2025	06/2024
TRANSMITTER FLOW FINAL EFF.PLANT 4 NORTH	207110	06/2025	06/2024
TRANSMITTER FLOW SEC CLAR PLANT 1 NORTH	223664	06/2025	06/2024
TRANSMITTER FLOW SEC CLAR PLANT 2 SOUTH	223665	06/2025	06/2024
TRANSMITTER FLOW SEC CLAR PLANT 2 NORTH	223666	06/2025	06/2024

6.8 Condition 11 4.g – Efforts Made to Achieve Design Objective

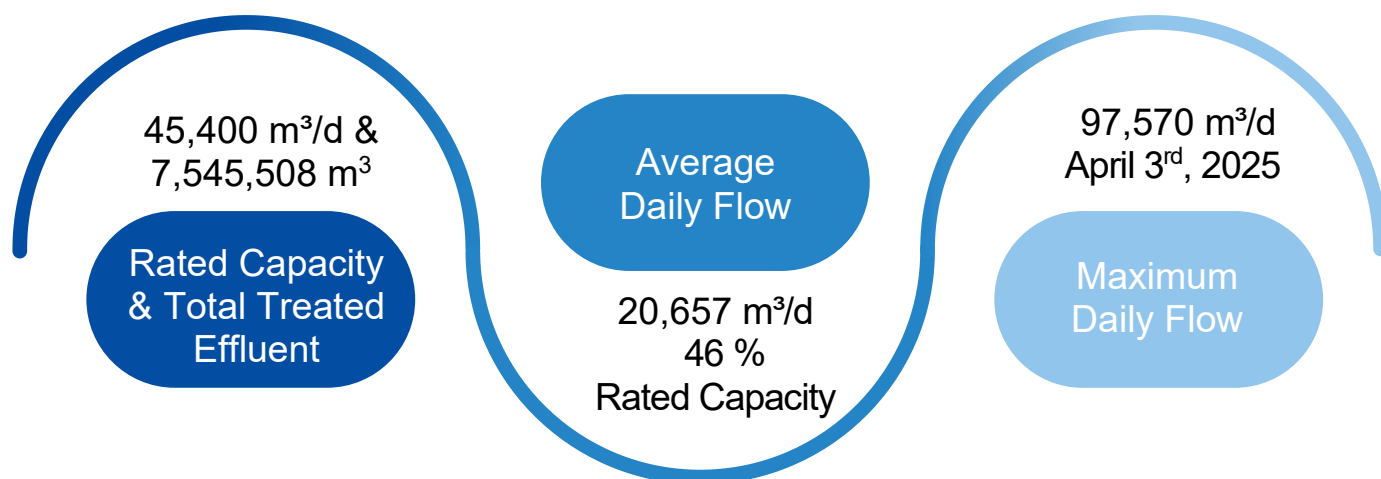
a summary of efforts made to achieve the design objectives in this Approval, including an assessment of the issues and recommendations for pro-active actions if any are required under the following situations:

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;

The annual effluent flow summary is outlined in Figure 6.8-1. See **Appendix Southwest 1** for additional details on monthly influent and effluent wastewater flows over the reporting period.

Figure 6.8-1 Effluent Flow Summary



6.8.1 Analytical Results

The monthly analysis results are provided in **Appendix Southwest 2**, and all analysis results are provided in **Appendix Southwest 3**.

Table 6.8-1 presents the annual summary of compliance and demonstrates the adequacy of the works. This data demonstrates how the facility met the compliance objectives throughout the year, and the percentages are calculated using the prescribed averaging calculators from the ECA.

Table 6.8-1 Annual Summary of Compliance Results

Results Within Limits*		Results Within Objectives*,**	
CBOD – 25 mg/L	100%	CBOD – 15 mg/L	100%
TSS – 25 mg/L	100%	TSS – 15 mg/L	100%
TP – 0.8 mg/L	100%	TP – 0.6 mg/L	100%
TAN – 10/20 mg/L***	100%	TAN – 6.0/10 mg/L***	100%
E.Coli – 200 CFU/100ml†	100%	E.Coli – 150 CFU/100ml†	100%
pH – 6.0-9.5	100%	pH – 6.5-9.0	96%
TP Loading – 27.2 kg/d	100%		

* Statistics are based on the averaging calculator from Schedule B and C of the ECA.

** The operating authority “shall use their best effort to maintain” and does not represent non-compliance

*** TAN Season: May to November – Limit: 10 mg/L(Objective: 6 mg/L), December to April – Limit: 20 mg/L (Objective: 10 mg/L)

† E.coli sampling and reporting occurs during the period of May 1 to October 31

6.9 Condition 11 4.h – Biosolids

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:

The annual biosolids production and forecast for the following year is presented in Table 6.9-1. The biosolids are taken to the BMC for temporary storage, blending and thickening prior to land application and/or dewatering.

Table 6.9-1 Annual Biosolids Productions

Material	Produced	2026 Forecasted
Biosolids (m ³)	67,696	55,000

6.10 Condition 11 4.i – Complaints

a summary of any complaints received and any steps taken to address the complaints:

There were no complaints received at the plant in 2025.

6.11 Condition 11 4.j – Partial Treatment Events

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:

The occurrence of a spill, by-pass or overflow result in the generation of an event report and entry into the operational log. These event(s) are listed in the following table(s).

There were no bypasses or spill in 2025.

Table 6.11-1 Plant Overflow Event(s)

Date	ECHO #	Type	Start Time HH:MM	Duration (Minutes)	Volume (m ³)	Disinfection (Y/N)	Cause Code
4/3/2025	1-N7MMLA	Primary Overflow	05:46	901	3,096.1	N	1

Cause Codes for Partial Treatment Events		
1 = Heavy Precipitation	4 = Equipment Maintenance	7 = Exceed Design
2 = Snow Melt	5 = Sewer Problems	8 = Other
3 = Equipment Failure	6 = Power Failure	

6.12 Condition 11 4.k – Notices of Modifications

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.

Halton Region monitors, maintains, and replaces existing assets based on condition, age, risk and/or use as part of the state of good repair program or as identified in the master plan.

Works for the Oakville Southwest WWTP for which a Notice of Modifications was completed during this reporting period are listed in table 6.12-1 below.

Table 6.12-1 Notices of Modifications

Projects	Project ID	Approval Date	Status
Oakville Southwest WWTP Digester 2 Rehabilitation and Tunnel Repair	S3423B	12/12/2024	Under Construction

6.13 Condition 11 4.I – Conformance with Procedure F-5-1

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.

As a nominally separated sewer system, details about current or future projects related to the sanitary collection system within Halton Region's Wastewater Collection System ECA (004-W601) that relates to bypass/overflow can be found in the Wastewater Collection Systems Performance Report.

7. Burlington Skyway Wastewater System

7.1 System Description

The Burlington Skyway WWTP is located at 1135 Lakeshore Road in the City of Burlington. The Skyway WWTP is a tertiary treatment plant consisting of screening, raw sewage pumping, de-gritting, primary clarification, activated sludge, final clarification, deep sand filters, two stage anaerobic digestion along with rotary drum thickening (RDT) for WAS thickening. Skyway WWTP also uses belt filter presses and centrifuge for digested sludge dewatering. The final effluent is seasonally disinfected using UV light prior to discharge into Hamilton Harbour, Lake Ontario. The Burlington Skyway WWTP system information is provided below in Table 7.1-1.

Table 7.1-1 Burlington Skyway System Information

Municipal Wastewater System Works Number		110000070
Classification		
Treatment Facility		Class 4
Certificate #		560
Collection System		Class 3
Certificate #		562
Environmental Compliance Approvals		
Type	ECA Number	Date of Issue
Sewage Works	1813-CR3S3S	October 11, 2023
Air & Noise	6119-9JEKDB	June 06, 2014

7.2 Condition 11 4.a – Influent Flow Monitoring & Imported Sewage

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;

7.2.1 Interpretation of Influent Flow

Influent sewage characteristics for this reporting period can be found in **Appendix Skyway 1, Skyway 2 & Skyway 3**. Historical characteristics of the influent flow can be seen in table 7.2-1 below.

Table 7.2-1 Historical Data

Influent Annual Average	Units	2021	2022	2023	2024	2025
Total Flow	ML	33,316.566	32,029.434	37,902.482	36,138.281	32,068.004
Average Flow	MLD	91.278	87.752	103.842	98.699	87.831
BOD5	mg/L	168	163	149	176	167
BOD5 Loading	kg/day	15,074.6	13,764.5	15,144	17,088	14,413
TSS	mg/L	195.8	183.3	191.7	229.2	202.5
TSS Loading	kg/day	17,502.5	15,714.4	19,539.8	22,303.8	17,508.2
TKN	mg/L	35.5	39.6	30.8	32.9	37.3
TKN Loading	kg/day	3,189.3	3,424.4	3,111.4	3,189.2	3,216.4
TP	mg/L	4.16	4.21	3.90	4.06	4.28
TP Loading	kg/day	373.21	360.45	395.72	395.2	369.6

Minor discrepancies may occur because of rounding.

7.2.2 Imported Sewage

Table 7.2-2 shows the volume of the Imported Sewage at the Skyway WWTP and the yearly average for the parameters under Schedule D.

Table 7.2-2 Imported Sewage Parameters

Imported Sewage Annual Average	Units	2024	2025
Total Volume	ML	10.38	10.252
BOD5	mg/L	2,100	3,000
Total Suspended Solids	mg/L	4,200	4,800
Total Phosphorus	mg/L	66	104
Total Kjeldahl Nitrogen	mg/L	648	1,370

7.3 Condition 11 4.b – Effluent Flow Monitoring

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;

7.3.1 Effluent Monitoring Data

See **Appendix Skyway 1** for details on monthly wastewater effluent flows, concentrations and loading rates over the reporting period.

7.4 Condition 11 4.c – Operating Issues & Corrective Actions

a summary of all operating issues encountered and corrective actions taken;

Table 7.4-1 illustrates the operating issues and corrective actions taken by operations.

Table 7.4-1 Operating Issues & Corrective Actions

Issues	Date	Causes	Corrective Actions
Water main break	01/11/2025	Water main break caused by cold temperatures of watermain that feeds the digesters/dewatering building.	All process units within the operating area were affected during this repair. Potable water systems in the digester/dewatering building shutdown. Dewatering equipment (centrifuge, BFP, RDT units) all turned off until the repair completed.
Tank/Equipment Out of Service - Aeration Tank #10	02/06/2025	Low flows cause process challenges.	Remove Aeration Tank #10 from service to help process control.
Influent Anomalies (excessive foam and phosphorus loading suspected to be from industry)	Multiple Days (February to April)	Foam observed in grit tanks and primary clarifiers, with elevated phosphorus. In some instances, the scent of soap was detected. Cause suspected to be industry.	Operations Staff conducted additional testing and adjustments across process tanks and chemical systems. Notified Industrial Waste to investigate source, samples submitted to Regional Lab for further analysis
Loss of treatment capabilities	02/20/2025	Microbiology in poor conditions due to cold weather and suspected industrial spill	Receiving RAS loads from Mid-Halton and Georgetown WWTP to help seed aeration system. Operations Staff conducted additional testing and adjustments across process tanks and chemical systems.
Power Outages Related to Capital Construction Activities to Replace Power Station	Multiple Days (April to August)	High voltage electrical equipment within the Power Station at the end of life and need to be replaced and refurbished. Work causes multiple power outages.	Engaged general contractor, Burlington Hydro, and Maintenance contractors as needed to restore power and address issues.
Effluent anomalies	09/17/2025	Acute Lethality test failure reported by Regional Laboratory.	Notification submitted to MECP (ECHO #1-PV764).
Overflow Monitoring Equipment – Missed Calibration	10/16/2025	Equipment was not handed over to maintenance after last major expansion so	Refer to letter dated January 10, 2026 provided to the MECP with Halton's Corrective

Issues	Date	Causes	Corrective Actions
		equipment was not in SAP for annual calibration.	Action. ECHO 1-QC1096. A Root Cause Analysis was completed to determine corrective actions to prevent future incidents.
Standby Power Failure	11/11/2025	TH 7 went down; hydro line came undone causing generator to feed tertiary building.	Standby supervisor notified. Standby electrician arranged for Romar to troubleshoot.
Digester Foam	Multiple Days (May, September, and November)	Digester #1 High Level - Recurring high level alarms; issues with gas recirculation compressor.	Shut off gas recirculation compressor. Restarted scum, raw sludge pumping, and RDT when permissive cleared. Inspected overflow.
Process Laboratory pH meter calibration	Weekly	Calibration performed in accordance with Work Instruction Q-WI-199	N/A

7.5 Condition 11 4.d – Maintenance

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:

The Water and Wastewater Treatment Division has developed a maintenance management program for plant works at the WWTP. This program is executed by treatment plant maintenance and SCADA staff. State of good repair work performed by the Plant Capital and Engineering staff is not reported.

Table 7.5-1 lists the number of normal activities, emergency repairs and maintenance activities completed by treatment plant maintenance and SCADA staff at the WWTP for the year. The Water and Wastewater Division aligns current maintenance language with ECA language, as follows:

- Normal activities are all planned or unplanned work that is not classified as a Breakdown or an Unplanned Request
- Emergency repairs are all breakdown work order types that result in downtime of a process area or the plant
- Maintenance activities are all planned and unplanned works, from all order types

Table 7.5-1 Maintenance Work

Normal Activities	Emergency Repairs	Maintenance Activities
2,133	1	2,429

Due to the volume of workorders and related transactional data for the works, this information is not included as part of this report, however, the information is provided on a weekly basis to operational staff at each plant as part of the maintenance management asset care process.

7.6 Condition 11 4.e – Quality Assurance and Control Measures

a summary of any effluent quality assurance or control measures undertaken;

7.6.1 Quality Assurance

To ensure the quality of the data collected by operations, the following criteria are in place.

- Operations perform daily in house testing on the parameters set in the ECA
- Optimization sampling at every process
- A monitoring schedule is set up by the accredited Regional Lab
- Process data is collected electronically
- SCADA collects real time data, monitors and stores data for future analysis
- Participation in the AWWA Partnership for Clean Water program

7.6.2 Control Measures

The following control measures are in place at the Skyway WWTP

- Daily reports are used to analyze trends and determine if changes are necessary
- Online analyzers reviewed to ensure complete treatment in various process stages
- Compliance instruments are calibrated to ensure accuracy
- Equipment redundancy throughout the plant to ensure treatment can be achieved in the event of normal maintenance, emergencies and breakdowns
- Thin clients are stationed throughout the plant to allow operations to access SCADA to control equipment and assess real time conditions
- Work instruction and standard operating procedures are developed to aid operations
- Phosphorous precipitation is achieved at the plant using ferric chloride
- pH adjustment is achieved by adding Sodium Hydroxide
- Overflow disinfection is achieved by using Sodium Hypochlorite

7.7 Condition 11 4.f – Calibration & Maintenance of Monitoring Equipment

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

The equipment used to monitor wastewater influent/effluent flows and key parameters must be maintained and checked throughout the year to ensure accurate readings. The equipment used for flow monitoring is calibrated yearly by the Region's maintenance staff. Halton's Treatment Plant Maintenance aims to complete regulatory equipment calibrations within 12 months of the last calibration. At a minimum, regulatory equipment is calibrated at least once per calendar year and at least five months after the most recent calibration, per the Canadian Wastewater Systems Effluent Regulations (SOR/2012-139). Therefore, all the equipment was found to be within acceptable limits in 2025. The equipment used for monitoring of the parameters listed in Schedule D Monitoring Program, with the exception of the Final Effluent pH, is calibrated by the Region's Regional Laboratory. The Final Effluent pH is monitored by the in-plant process laboratory pH meter. This device is field calibrated routinely by the Region's operations staff. Raw and Final Effluent Autosamplers are maintained by Operations to ensure that the samples are representative.

Table 7.7-1 shows the calibration date of the equipment below.

Table 7.7-1 Calibration

Instrument Description	SAP #	2025 Calibration	2024 Calibration
TRANSMITTER FLOW BANK #1 EFFLUENT	200660	05/2025* 09/2025	08/2024
XTR FLOW FINAL EFF CLAR.#13 FLUME #4	212567	05/2025* 09/2025	08/2024
TRANSMITTER FLOW FINAL EFFLUENT CLAR.#14	212581	05/2025* 09/2025	08/2024
TRANSMITTER FLOW BANK 2 EFFLUENT #5-#8	219400	09/2025	10/2024
TRANSMITTER FLOW BANK 3 EFFLUENT	224531	09/2025	10/2024
XTR PARSHALL FLOW SC 15-18 EFFLUENT	228557	09/2025	10/2024
TRANSMITTER FLOW SEPTAGE LANE #1 HSRS	234719	08/2025	11/2024
XTR FLOW TERTIARY DECANT WASTE	228664	08/2025	11/2024

* Third party flume dye testing was conducted at Skyway WWTP. These results support Halton's Maintenance team calibration results and confirm that the devices are reporting flows within +/- 15% accuracy.

7.8 Condition 11 4.g – Efforts Made to Achieve Design Objective

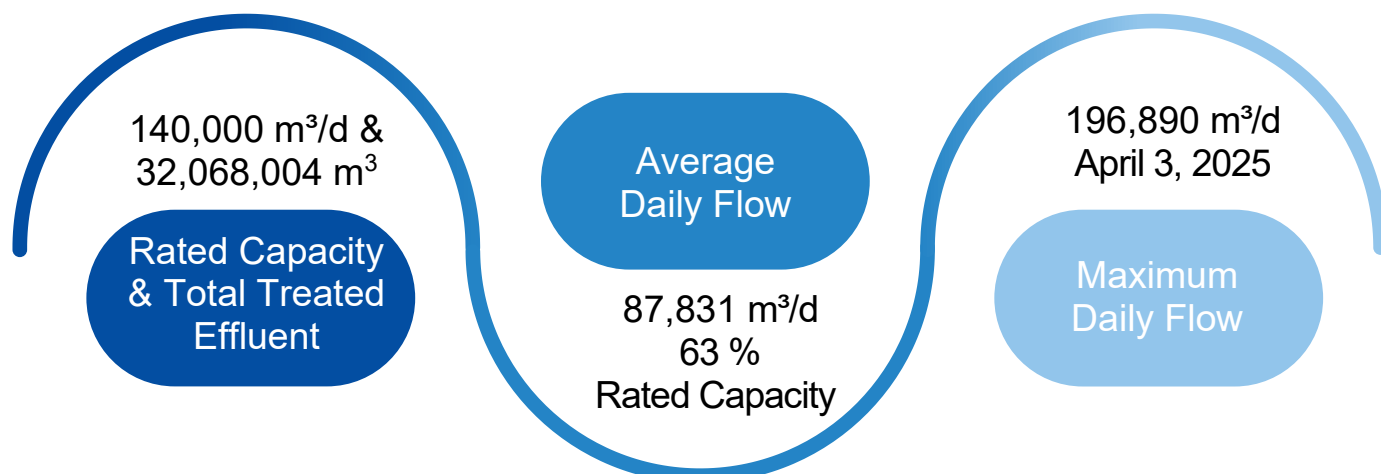
a summary of efforts made to achieve the design objectives in this Approval, including an assessment of the issues and recommendations for pro-active actions if any are required under the following situations:

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;

The annual effluent flow summary is outlined in Figure 7.8-1. See **Appendix Skyway 1** for additional details on monthly influent and effluent wastewater flows over the reporting period.

Figure 7.8-1 Effluent Flow Summary



In 2025, the total phosphorus design objective was not achieved 50% of the time. In Fall 2025, a ferric dose optimization study was initiated with support from an engineering consulting firm to optimize the dose of ferric chloride applied for purpose of alkalinity recovery. The main purpose of this study will be revisited for 2026, to consider expanding the purpose to aiding the facility more consistently meet its total phosphorus objectives.

7.8.1 Analytical Results

The monthly analysis results are provided in **Appendix Skyway 2**, and all analysis results are provided in **Appendix Skyway 3**.

Table 7.8-1 presents the annual summary of compliance and demonstrates the adequacy of the works. This data demonstrates how the facility met the compliance objectives throughout the year, and the percentages are calculated using the prescribed averaging calculators from the ECA.

Table 7.8-1 Annual Summary of Compliance Results

Results Within Limits*		Results Within Objectives*,**	
CBOD – 10 mg/L	100%	CBOD – 8.0 mg/L	100%
TSS – 10 mg/L	100%	TSS – 5.0 mg/L	100%
TP – 0.2 mg/L	92%	TP – 0.12 mg/L	42%
TAN – 2.0/4.0 mg/L ***	92%	TAN – 1.6/3.2 mg/L ***	92%
E.Coli – 200 CFU/100ml †	100%	E.Coli – 150 CFU/100ml †	100%
pH – 6.0-9.5	100%	pH – 6.5-9.0	94%
CBOD Loading – 1400 kg/d	100%		
TSS Loading – 1400 kg/d	100%		
TP Loading – 17.2 kg/d	100%		
TAN Loading – 280/560 kg/d***	92%		

* Statistics are based on the averaging calculator from Schedule B and C of the ECA.

** The operating authority “shall use their best effort to maintain” and does not represent non-compliance

*** TAN Season: May to September – Limit: 2.0 mg/L(Objective: 1.6 mg/L), October to April – Limit: 4.0 mg/L (Objective: 3.2 mg/L)

† E.coli sampling and reporting occurs during the period of April 1 to October 31

7.9 Condition 11 4.h – Biosolids

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;

The annual dewatered production and forecast for the following year is presented in Table 7.9-1. The dewatered biosolids were taken to agricultural land for crop production, sent to an approved processing facility prior to land application or sent to an approved reclamation facility.

Table 7.9-1 Skyway Dewatered Biosolids Production & Forecast

Material	Produced	2026 Forecasted
Biosolids (w.t.)	11,335	12,500

7.10 Condition 11 4.i – Complaints

a summary of any complaints received and any steps taken to address the complaints;

There were no complaints received at the Skyway WWTP in 2025.

7.11 Condition 11 4.j – Partial Treatment Events

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;

The occurrence of a spill, by-pass, overflow or irregular result in the generation of an event report and entry into the operational log. These event(s) are listed in the following table(s).

There were no spill events at the plant in 2025.

Table 7.11-1 Abnormal Discharge Event(s)

Date	ECHO #	Type	Start Time HH:MM	Duration (Minutes)	Volume (m ³)	Disinfection (Y/N)	Cause Code
3/3/2025	1-I6V8IA	Effluent lab result outside ECA limit	16:30	N/A	N/A	N/A	8

Table 7.11-2 Plant Bypass Event(s)

Date	ECHO #	Type	Start Time HH:MM	Duration (Minutes)	Volume (m ³)	Disinfection (Y/N)	Cause Code
2/27/2025	1-I11AQR	Tertiary Bypass	23:45	660	26,257	N	1, 2
12/12/2025	1-PX2H59	Tertiary Bypass	10:00	360	9,000	N	7

Table 7.11-3 Plant Overflow Event(s)

Date	ECHO #	Type	Start Time HH:MM	Duration (Minutes)	Volume (m ³)	Disinfection (Y/N)	Cause Code
2/28/2025	1-I1EPBF	Primary Overflow	12:13	451	5,103	Y	1, 2
2/28/2025	1-IO97CD	Secondary Overflow	2:05	191	17,686	N	1, 2
3/5/2025	1-IA0JNS	Primary Overflow	08:46	1372	14,478	Y	1, 2
3/16/2025	1-J2G571	Primary	13:42	579	6,685	Y	1, 2

Date	ECHO #	Type	Start Time HH:MM	Duration (Minutes)	Volume (m ³)	Disinfection (Y/N)	Cause Code
Overflow							
4/4/2025	1-N6RI1R	Primary Overflow	18:54	2403.6	107,717	Y	1, 2
5/22/2025	1-OG3LNR	Primary Overflow	07:33	977	18,919	Y	1

Cause Codes for Partial Treatment Events		
1 = Heavy Precipitation	4 = Equipment Maintenance	7 = Exceed Design
2 = Snow Melt	5 = Sewer Problems	8 = Other
3 = Equipment Failure	6 = Power Failure	

7.12 Condition 11 4.k – Notices of Modifications

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.

Halton Region monitors, maintains, and replaces existing assets based on condition, age, risk and/or use as part of the state of good repair program or as identified in the master plan.

There were no Notice of Modification submitted in 2025.

7.13 Condition 11 4.I – Conformance with Procedure F-5-1

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.

As a nominally separated sewer system, details about current or future projects related to the sanitary collection system within Halton Region's Wastewater Collection System ECA (004-W601) that relates to bypass/overflow can be found in the Wastewater Collection Systems Performance Report.

7.15 Condition 11 4.m – Monitoring Schedule

a summary of any deviation from the monitoring schedule and reasons for the current reporting year and a schedule for the next reporting year.

In 2025, there were no deviations from the current monitoring schedule. Table 7.15-1 shows the monitoring schedule for Skyway WWTP.

Table 7.15-1 Monitoring Schedule

Sample	Minimum Frequency	Analysis Performed
Raw Sewage***	Weekly	BOD5, TSS, TP, TKN

Sample	Minimum Frequency	Analysis Performed
Final Effluent	Weekly	CBOD5 ^{***} , TSS ^{***} , TP, TAN, E.Coli, pH*, Temp*, Unionized Ammonia ^{**}
Imported Sewage	Monthly	BOD5, TSS, TP, TKN
Sludge/Biosolids	Quarterly	TS, TP, TAN, NO ₃ , Metal Scan

*pH and temperature of the Final Effluent shall be determined in the field at the time of sampling for Total Ammonia Nitrogen.

**The concentration of un-ionized ammonia shall be calculated using the total ammonia concentration, pH and temperature using the methodology stipulated in "Ontario's Provincial Water Quality Objectives" dated July 1994, as amended.

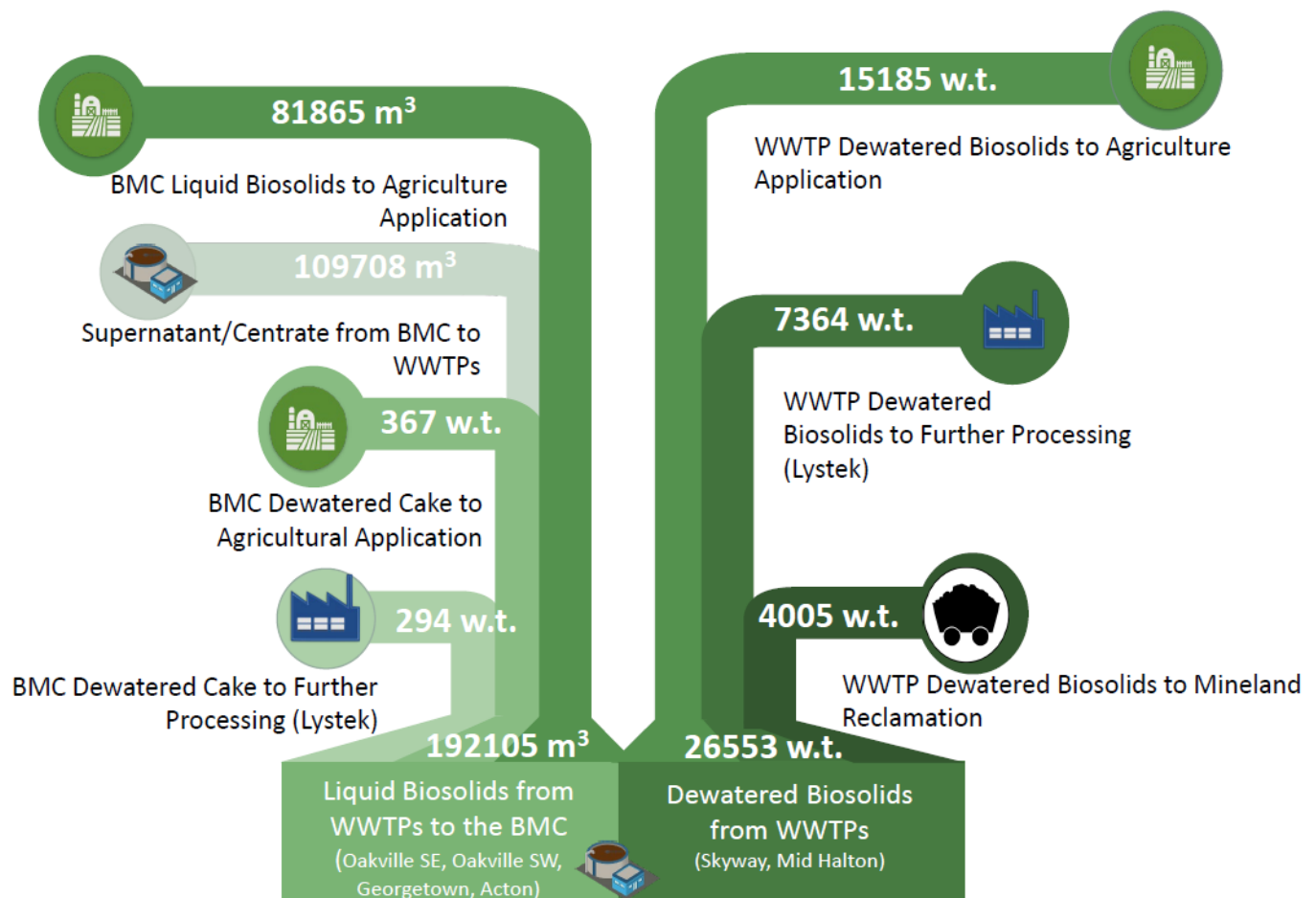
*** The ECA minimum frequency is monthly for these parameters.

8. Biosolids Management Program

8.1 Biosolids Management Summary

All WWTP biosolids produced in Halton in 2025 were directed to either temporary storage, applied to agricultural land for crop production, sent to an approved reclamation facility, or sent for further processing. The annual volume or quantity directed to each of these options is presented in Figure 8.1-1.

Figure 8.1-1 2025 Biosolids Management Program Summary



8.2 Condition 18.1.i – Summary of Biosolids Received

A monthly summary of the Biosolids received at the Site, including cubic meters, source and type;

8.2.1 Biosolids Received at the BMC

The monthly summary of the liquid biosolids received at the BMC from the WWTP's for the reporting period is provided in Table 8.2-1

Table 8.2-1 Liquid Biosolids Received by the BMC from WWTP's (m³)

Month	Acton	Georgetown	Oakville Southwest	Oakville Southeast	Totals
January	704	6,948	6,160	3,168	16,980
February	704	6,676	5,044	4,136	16,560
March	585	6,290	5,940	3,412	16,228
April	396	6,800	5,500	3,388	16,084
May	397	7,084	6,072	3,652	17,205
June	396	6,037	5,324	4,136	15,893
July	353	5,676	4,972	3,388	14,389
August	395	5,368	4,972	2,772	13,507
September	396	5,764	6,292	3,432	15,884
October	442	6,853	6,860	3,828	17,983
November	396	5,445	4,664	3,476	13,981
December	484	6,632	5,896	4,400	17,412
Total	5,647	75,573	67,696	43,188	192,105

8.2.2 Outgoing Biosolids from BMC

The blended liquid biosolids temporarily stored at the BMC is seasonally applied on agricultural fields. Storage of liquid biosolids at the BMC also permits solids settling in the tanks and allows for the removal of the supernatant and return to Halton's WWTPs for treatment. The removal of supernatant from the BMC helps to increase storage capacity throughout the year and increases the value of the product by concentrating the organic matter and nutrients in the biosolids. The BMC also has a dewatering unit onsite to help manage storage tank capacity issues, if required. The resulting dewatered biosolids are hauled to agricultural land for crop production, mine land reclamation or further processing, while the centrate is returned to Halton's WWTPs for treatment.

8.3 Condition 18.1.ii – Summary of Biosolids Transported Off-Site

A monthly summary of Biosolids transported off-site, including the quantity in cubic meters or wet tonnes, destination and type;

A summary of the biosolids, supernatant and centrate transferred off site can be found in Table 8.3-1.

Table 8.3-1 Outgoing Biosolids (Including Supernatant and Centrate) from BMC by Material Type and Destination

Month	Liquid Biosolids to Agricultural Fields (m³)	Supernatant / Centrate to WWTP (m³)	Dewatered Biosolids to Agricultural Fields (w.t.)	Dewatered Biosolids to Further Processing (w.t.)
January		2,233.06		
February		5,387.02		
March		12,517.8		
April	7,976	13,185.76		
May	13,080	10,541.0		
June	3,208	10,256.2		15.28
July	8,948	11,440.4		19
August	16,304	7,702.4		
September	8,992	8,822.3	60.75	125.85
October	15,915	11,501.5	236.81	99.33
November	7,442	10,700.8	69.66	34.15
December		5,419.3		
Totals	81,865	109,707.5	367.22	293.61

8.4 Condition 18.1.iii – Material Balance

An annual summary material balance of the waste received at and transported from the Site:

Please refer to **Figure 8.1-1** 2025 Biosolids Management Program Summary.

8.5 Condition 18.1.iv – Recommendations for Minimize Environmental Impacts

Any recommendations to minimize environmental impacts from the operation of the Site and to improve Site operations and monitoring programs in this regard:

Halton Region retains an independent third-party environmental consultant to conduct an annual environmental monitoring program for the BMC. The 2024 BMC Environmental Monitoring Report made the following recommendations for the 2025 and 2030 monitoring years:

- Groundwater monitoring well levels should continue to be taken at all eighteen (18) existing monitoring wells.
- Groundwater monitoring well samples should continue to be collected bi-monthly for analysis and QA/QC purposes at the fourteen (14) existing monitoring wells.
- QA/QC sampling should continue to occur during the June sampling event for the SWQCP and five (5) existing MMHs.

- Field measurements should continue to be taken at all sampling locations and events.
- Groundwater samples should continue to be chemically analyzed for pH, NO₂-N, NO₃-N, TKN, TAN, Organic Nitrogen, TP, Hg, As, Cd, Cr, Cu, Pb, Se, Zn, Co, Fe, Mo, Ni.
- MMH samples should continue to be chemically analyzed for pH, NO₂-N, NO₃-N, TKN, TAN, Organic Nitrogen, TP, Hg, As, Cd, Cr, Cu, Pb, Se, Zn, Co, Fe, Mo, Ni.
- SWQCP samples should continue to be chemically analyzed for BOD₅, TSS, TP.
- An additional water well reconnaissance survey should be completed in 2030, as recommended in the 2019 report. This will help identify and new residences or potable water systems that may have been constructed within a 1 km radius of the BMC.
- A copy of this report should be kept on-site.

8.6 Condition 18.1.v – Rejected Biosolids

A descriptive summary describing any rejected Biosolids including quantity, type, reasons for rejection and origin of the rejected Biosolids:

All biosolids received at the BMC in 2025 met the ECA's quality criteria for biosolids and were not rejected.

8.7 Condition 18.1.vi – Maintenance Summary

A descriptive summary of maintenance conducted during the previous calendar year:

Table 8.7-1 Maintenance Summary for the Reporting Period

2025 PM Plan	2025 Unplanned Repairs
MECHANICAL PM	UNPLANNED MECHANICAL
BIOSOLID MIXER PM	FABRICATE LADDER SHIELDS TANKS 9 , 10
MECHANICAL-BIOSOLIDS MIXER PM PLAN	SEALING INSIDE POLYMER BUILDING WINDOW
	INSTALL GARAGE FIRE EXTINGUISHERS
ELECTRICAL PM	ACCESS GATE WELD
ELECTRICAL-BIOSOLIDS MIXER PM PLAN	ADMIN TRAILER FRONT DOOR ARM
HBMC - ELECTRICAL PM PLAN	LODESTAR PUMP 1
HMBC - ESA INSPECTION	TANK 4 MIXER NOT RUNNING 3 HATCH LOCATION
ESA DEF: CONFIRM & LABEL MCC B MAIN DISC	
ESA DEF: CONFIRM & LABEL TR-B DISCONNECT	LODESTAR 2 HOIST.
ESA DEF: INSTALL LOCK ON 800 A SPLITTER.	KNIFE GATE 1 LEAKING.
INSTRUMENTATION PM	SAFETY SIGN REQUIRES INSTALLATION.
HBMC INSTRUMENT PM PLAN	TANK 2 SUPERNATANT RACK LEG SUPPORTS.

2025 PM Plan	2025 Unplanned Repairs
HVAC PM	TANK 4 SUPERNATANT SUPPORT LEGS
BMC - HVAC PM PLAN	TANK 6 SUPERNATANT SUPPORT LEGS
	PROCESS WATER TANK - MILLTRONICS
	REPLACE AUTO DIALER BATTERIES
	TANK 1 HATCH 1 LADDER BROKEN WELDS
	MEN'S BATHROOM TOILET - ADMIN BUILDING
	POLYMER BUILDING SMOKE ALARM BATTERY
	TANK 6 UNDERWATER INSPECTION.
	DAMAGED MIDDLE LANEWAY GATE
	TANK 5 UNDERWATER INSPECTION.
	MIDDLE GATE LOCK BAR AND ROAD ANCHOR.
	SEPTIC TANK PUMP NOT PUMPING.
	KITCHEN CEILING TILE WATER LEAK.
	POLYMER BUILDING 3" WATER VALVE
	POLYMER RECIRCULATION LINES
	HBMC DEWATERING WINTERIZATION.
	UNPLANNED ELECTRICAL
	TEST PLUG FOR MIXER
	SWQCP AERATOR NO POWER.
	PUMP RECEPTICLE TANK # 4.
	TANK 2 115 V RECEPTACLES NO POWER
	TANK 1 POWER TO MIXERS OR 115V.
	TANK 3 ELECTRIC CABLES MISSING CLIPS.
	TANK 5 ELECTRIC CABLE CLIPS MISSING.
	TANK 6 ELECTRIC CABLE CLIPS MISSING.
	TANK 10 POWER ISSUE HATCH # 2.
	TANK 1 PUMP RECEPTICAL.
	PUMP 5 CORD LOOSE AT MELTRIC PLUG.
	TANK 6 POWER TO MIXERS
	TANK 6 ELECTRICAL PANEL
	TANK 5, 7 POWER AT MAIN PANEL
	TANK 10 UPS FAULT
	ELECTRIC GATE STOPPING SHORT
	TANK 1 HATCH # 4 FEMALE PLUG CLIP

2025 PM Plan	2025 Unplanned Repairs
	TANK 1 HATCH # 1 MIXER PLUG
	LIGHTING ABOVE ELECTRIC GATE
	TANK 4 HATCH 5 MX PLUG NO POWER
	TANK 9 TWO MIXER HATCHES NO POWER
	TK 4 HATCH 2 NO POWER
	HBMC DEWATERING WINTERIZATION.
	TANK 5 PUMP PLUG
	MIXER 32 NOT RUNNING.
	MONITORING MANHOLE # 4 IN ALARM.
	MIXER 34 RUNNING IN REVERSE
	MIXER 9 RUNNING IN REVERSE
	MIXER 9 - FUSE
	UNPLANNED INSTRUMENTATION
	LEVEL SENSOR TANK 1
	HIGH LEVEL LIGHT TANK 4
	AUTODIALER NOT FUNCTIONING
	PUMP STATION PLC COMM DOWN.
	HBMC DEWATERING WINTERIZATION.
	BMC DISCHARGE PUMPING FLOW METER
	UNPLANNED HVAC

8.8 Condition 18.1.vii – Statement of Compliance

A statement as to compliance with all Conditions of this Approval and with the inspection and reporting requirements of the Conditions herein.

The statement of compliance letter is provided on the next page.



Public Works Department
Water and Wastewater Treatment
1151 Bronte Road
Oakville ON L6M 3L1

February 13, 2026

To: FILE

RE: 2025 Statement of Compliance - Amended Environmental Compliance Approval No. A680210 dated January 22, 2019

The following statement of compliance is an annual requirement under the **Amended Environmental Compliance Approval No. A680210** dated January 22, 2019, for Halton's W. A. Bill Johnson Biosolids Management Centre (BMC):

"With the exception of *"MECP Inspection Report dated November 27, 2025: Event 1-1559163862 Nutrient Management Act Violation at Halton Region Laboratory"* identified below, to the best of my knowledge, the Regional Municipality of Halton has complied with the terms and conditions of Amended Environmental Compliance Approval No. A680210 dated January 22, 2019, for the January 1 to December 31, 2025, operating period."

Halton provided a letter dated January 19, 2026, to Environmental Officer Valeria Spezzano providing written response acknowledging and addressing the Nutrient Management Act violation identified in the MECP Inspection report (Event 1-1559163862). The letter outlined the implementation of corrective actions to ensure that all future analytical results are fully compliant with regulatory requirements.

Halton's response letter addressed to Environmental Officer Valeria Spezzano, dated January 19, 2026, can be accessed via our document control system by clicking on the following public hyperlink:

[CORR-PW to MECP-Biosolids MDL Inspection Response-2026 \(Q-RD-6578\)](#)

Signed,

A handwritten signature in blue ink, appearing to read "Dean Iamarino".

Dean Iamarino, B.Sc., CET,
Supervisor, Wastewater Biosolids Management Ext. 4494
Dean.Iamarino@halton.ca

Appendices

2025 ACTON WWTP FLOW AND LOADING



INFLUENT FLOW		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total Effluent	10 ³ m ³	110.283	95.982	134.176	137.232	119.765	109.240	105.142	100.573	98.586	105.891	103.995	115.555
Average Daily ¹	10 ³ m ³	3.558	3.428	4.328	4.574	3.863	3.641	3.392	3.244	3.286	3.416	3.467	3.728
Maximum Daily	10 ³ m ³	4.164	3.758	6.158	9.830	4.316	4.180	3.969	3.703	3.727	4.066	3.872	5.043
INFLUENT CONCENTRATION													
BOD ₅	mg/L	170	180	120	140	180	140	190	180	170	240	200	160
TSS	mg/L	190	230	180	160	250	200	240	210	200	280	220	190
TKN	mg/L	40.2	43.1	32.8	34.0	46.5	35.8	45.9	48.0	38.2	46.3	45.1	39.9
TP	mg/L	4.41	5.14	3.77	3.38	5.28	3.87	5.25	4.75	4.83	6.50	5.34	4.42
INFLUENT LOADING													
BOD ₅	kg/day	604.86	617.04	519.36	640.36	695.34	509.74	644.48	583.92	558.62	819.84	693.40	596.48
TSS	kg/day	676.02	788.44	779.04	731.84	965.75	728.20	814.08	681.24	657.20	956.48	762.74	708.32
TKN	kg/day	143.03	147.75	141.96	155.52	179.63	130.35	155.69	155.71	125.53	158.16	156.36	148.75
TP	kg/day	15.69	17.62	16.32	15.46	20.40	14.09	17.81	15.41	15.87	22.20	18.51	16.48

EFFLUENT FLOW		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total Effluent	10 ³ m ³	106.185	92.524	130.448	135.639	118.738	102.129	80.812	80.474	78.509	86.950	93.239	108.284
Average Daily ¹	10 ³ m ³	3.425	3.304	4.208	4.521	3.830	3.404	2.607	2.596	2.617	2.805	3.108	3.493
Maximum Daily	10 ³ m ³	3.976	3.700	5.598	9.059	4.188	4.050	3.551	3.156	3.391	3.528	3.544	5.007
EFFLUENT CONCENTRATION													
CBOD ₅	mg/L	1.8	1.0	1.2	1.3	1.3	1.3	1.6	1.3	1.5	1.0	1.0	1.3
TSS	mg/L	1.2	2.1	1.1	1.4	1.0	1.6	1.6	1.5	1.7	1.2	1.0	1.4
TAN	mg/L	0.10	0.10	0.12	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.13
TP	mg/L	0.05	0.07	0.05	0.06	0.04	0.04	0.05	0.06	0.06	0.05	0.04	0.06
E. Coli	CFU/100ml	1	0	1	2	4	1	2	4	2	1	1	1
EFFLUENT LOADING													
CBOD ₅	kg/day	6.17	3.30	5.05	5.88	4.98	4.43	4.17	3.37	3.93	2.81	3.11	4.54
TSS	kg/day	4.11	6.94	4.63	6.33	3.83	5.45	4.17	3.89	4.45	3.37	3.11	4.89
TAN	kg/day	0.34	0.33	0.50	0.45	0.38	0.34	0.26	0.26	0.26	0.28	0.31	0.45
TP	kg/day	0.17	0.23	0.21	0.27	0.15	0.14	0.13	0.16	0.16	0.14	0.12	0.21

¹ "average daily flow" means the total sewage flow to the sewage works during the periods of operation upon which the report is based, divided by the number of days during the same period of time.

The calculated yearly average loadings may not correspond to the data reported in the Regional Laboratory summary. This discrepancy is due to rounding.

TAN: Total Ammonia Nitrogen



Wastewater Analysis, Monthly Averages

Regional Municipality of Halton

1135 Lakeshore Rd

Burlington, ON L7S 1A8

Phone: 905-825-6000 x 3030

Halton Regional Laboratory

Acton WWTP, 2025

Final Effluent

Sample Date (Month)	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
	mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
January 2025	189	1.8	1	16.8	0.01	<0.02	7.2	1.2	<0.10	0.9	0.05	<0.001
February 2025	200	<1.0	0	18.4	0.01	0.02	7.3	2.1	<0.10	1.1	0.07	<0.001
March 2025	233	1.2	1	16.8	0.01	0.03	7.3	1.1	0.12	0.8	0.05	<0.001
April 2025	210	1.3	2	17.8	0.01	0.03	7.2	1.4	<0.10	0.8	0.06	<0.001
May 2025	199	1.3	4	18.9	<0.01	0.03	7.1	<1.0	<0.10	0.8	0.04	<0.001
June 2025	197	1.3	1	17.8	0.02	0.02	7.2	1.6	<0.10	0.8	0.04	<0.001
July 2025	185	1.6	2	18.0	0.02	0.02	7.3	1.6	<0.10	1.0	0.05	<0.001
August 2025	163	1.3	4	17.7	<0.01	0.03	7.3	1.5	<0.10	1.0	0.06	<0.001
September 2025	185	1.5	2	17.2	<0.01	0.02	7.2	1.7	<0.10	0.7	0.06	<0.001
October 2025	186	<1.0	1	16.9	<0.01	0.03	7.1	1.2	<0.10	0.9	0.05	<0.001
November 2025	170	1.0	1	18.4	<0.01	0.03	7.3	1.0	<0.10	0.7	0.04	<0.001
December 2025	174	1.3	1	19.2	0.03	0.02	7.2	1.4	0.13	1.0	0.06	<0.001
Annual Average	191	1.3	2	17.8	0.01	0.02	7.2	1.4	0.10	0.9	0.05	<0.001
Annual Minimum	111	<1.0	0	13.5	<0.01	<0.02	7.0	<1.0	<0.10	0.5	<0.02	<0.001
Annual Maximum	304	2.4	22	21.6	0.11	0.04	7.6	2.8	0.26	1.4	0.09	<0.001
Annual Count	54	54	55	54	54	54	54	54	54	54	54	54
# Results Outside Limits	0	0	0	0	0	0	0	0	0	0	0	0
Month Average	191	1.3	2	17.8	0.01	0.03	7.2	1.4	0.10	0.9	0.05	<0.001
% Results Within Limits	100	100	100	100	100	100	100	100	100	100	100	100
Limit	-/-	-/5	-/150	-/-	-/-	-/-	6.0/9.5	-/5	-/*	-/-	-/0.2	-/-

*Ammonia Nitrogen Limits are 2.0 (May - Nov) and 4.0 (Dec - Apr)

1. The detail section of this report displays the monthly averages, which are an arithmetic mean with the exception of E.coli, which is a geometric mean.
2. In order to calculate a geometric mean for the E.coli analysis, results of zero are first replaced with one.
3. The **Annual Average** in the summary section represents an average of every result for this facility. This is an annual geometric mean for E.coli.
4. If any result is less than the **Method Detection Limit**, then the detection limit is used in calculating the average. If all results are < MDL, then the average will also be reported as < MDL.
5. The **# Results Outside Limits** and **% Results Within Limits** represent statistics comparing individual results to the ECA limit. It does not necessarily represent non-compliance.



Wastewater Analysis, Monthly Averages

Regional Municipality of Halton

1135 Lakeshore Rd

Burlington, ON L7S 1A8

Phone: 905-825-6000 x 3030

Halton Regional Laboratory

Acton WWTP, 2025

Raw Sewage

Sample Date (Month)	Alkalinity	Ortho - Phosphates	Suspended Solids	Total Ammonia Nitrogen	Total BOD	Total Kjeldahl Nitrogen	Total Phosphorus
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
January 2025	394	1.56	190	24.8	170	40.2	4.41
February 2025	390	1.80	230	26.0	180	43.1	5.14
March 2025	365	1.59	180	19.2	120	32.8	3.77
April 2025	379	1.27	160	19.2	140	34.0	3.38
May 2025	406	1.98	250	23.4	180	46.5	5.28
June 2025	400	1.38	200	22.3	140	35.8	3.87
July 2025	400	1.93	240	25.4	190	45.9	5.25
August 2025	404	1.82	210	29.7	180	48.0	4.75
September 2025	402	1.95	200	24.8	170	38.2	4.83
October 2025	404	2.21	280	26.7	240	46.3	6.50
November 2025	397	2.39	220	24.9	200	45.1	5.34
December 2025	361	1.84	190	23.1	160	39.9	4.42
Annual Average	391	1.80	210	24.0	170	41.2	4.72
Annual Minimum	283	0.74	97	13.7	75	24.3	2.46
Annual Maximum	479	4.67	430	44.0	340	77.4	10.6
Annual Count	52	52	52	52	52	52	52
# Results Outside Limits	0	0	0	0	0	0	0
Month Average	392	1.81	210	24.1	170	41.3	4.75
% Results Within Limits	100	100	100	100	100	100	100
Limit	-/-	-/-	-/-	-/-	-/-	-/-	-/-

1. The detail section of this report displays the monthly averages, which are an arithmetic mean with the exception of E.coli, which is a geometric mean.
2. In order to calculate a geometric mean for the E.coli analysis, results of zero are first replaced with one.
3. The **Annual Average** in the summary section represents an average of every result for this facility. This is an annual geometric mean for E.coli.
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Wastewater Performance Summary

2025

Regional Municipality of Halton

1135 Lakeshore Rd

Burlington, ON L7S 1A8

Phone: 905-825-6000 x 3030

Halton Regional Laboratory

Acton WWTP

Final Effluent

Sample Date	Sample ID	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
		mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
2025-01-07	255-00007-10	193	1.6		16.0	<0.01	<0.02	7.1	<1.0	<0.10	0.8	0.02	<0.001
2025-01-07	255-00007-17			1									
2025-01-14	255-00031-10	184	1.5		16.2	0.01	<0.02	7.1	<1.0	<0.10	0.9	0.05	<0.001
2025-01-14	255-00031-17			0									
2025-01-23	255-00072-02	186	1.6		18.9	0.01	<0.02	7.4	1.4	<0.10	0.8	0.05	<0.001
2025-01-23	255-00072-03			0									
2025-01-28	255-00099-02	193	2.3		16.1	0.01	<0.02	7.2	1.4	<0.10	1.0	0.06	<0.001
2025-01-28	255-00099-03			2									
2025-02-04	255-00123-02	211	<1.0		17.3	0.01	<0.02	7.2	2.8	<0.10	0.8	0.08	<0.001
2025-02-04	255-00123-03			0									
2025-02-12	255-00153-10	188	<1.0		18.9	<0.01	<0.02	7.2	2.0	<0.10	1.4	0.06	<0.001
2025-02-12	255-00153-17			0									
2025-02-20	255-00194-10	200	<1.0		20.1	0.01	0.02	7.3	1.8	<0.10	1.0	0.09	<0.001
2025-02-20	255-00194-17			0									
2025-02-25	255-00242-02	199	<1.0		17.4	0.02	<0.02	7.3	1.6	<0.10	1.3	0.06	<0.001
2025-02-25	255-00242-03			0									
2025-03-05	255-00281-02	212	<1.0		19.9	0.01	<0.02	7.2	<1.0	<0.10	0.9	0.05	<0.001
2025-03-05	255-00281-03			1									
2025-03-13	255-00333-10	304	<1.0		15.9	0.01	0.03	7.2	1.0	<0.10	0.8	0.04	<0.001
2025-03-13	255-00333-17			0									
2025-03-18	255-00367-10	203	1.1		13.5	0.01	0.03	7.6	<1.0	<0.10	0.7	0.04	<0.001
2025-03-18	255-00367-17			0									
2025-03-26	255-00419-02	214	1.5		17.7	<0.01	0.02	7.1	1.4	0.18	0.9	0.06	<0.001
2025-03-26	255-00419-03			0									
2025-04-01	255-00473-02	202	<1.0		16.4	0.01	0.03	7.0	2.4	<0.10	0.7	0.09	<0.001
2025-04-01	255-00473-03			1									
2025-04-01	255-00487-01			0									
2025-04-02	255-00490-01	192	<1.0		18.4	0.01	<0.02	7.2	1.6	<0.10	0.8	0.07	<0.001
2025-04-02	255-00490-02			0									
2025-04-03	255-00503-01	208	<1.0		17.0	0.01	<0.02	7.0	1.4	<0.10	0.9	0.07	<0.001
2025-04-03	255-00503-02			0									
2025-04-09	255-00509-10	262	1.8		18.8	0.01	0.03	7.2	1.0	<0.10	0.8	0.04	<0.001
2025-04-09	255-00509-17			0									



Wastewater Performance Summary

2025

Regional Municipality of Halton

1135 Lakeshore Rd

Burlington, ON L7S 1A8

Phone: 905-825-6000 x 3030

Halton Regional Laboratory

Acton WWTP

Final Effluent

	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
	mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
2025-04-15 25S-00557-02	200	1.2		15.9	0.01	0.02	7.4	<1.0	<0.10	0.9	0.03	<0.001
2025-04-15 25S-00557-03			6									
2025-04-24 25S-00597-02	196	1.5		20.3	<0.01	0.03	7.1	1.2	<0.10	0.9	0.05	<0.001
2025-04-24 25S-00597-03			22									
2025-04-29 25S-00642-10	210	1.9		17.6	<0.01	0.03	7.2	<1.0	<0.10	0.9	0.04	<0.001
2025-04-29 25S-00642-17			2									
2025-05-06 25S-00683-10	202	1.5		18.1	<0.01	0.03	7.1	<1.0	<0.10	0.9	0.04	<0.001
2025-05-06 25S-00683-17			0									
2025-05-14 25S-00715-02	219	<1.0		20.0	<0.01	0.03	7.1	<1.0	<0.10	0.5	0.04	<0.001
2025-05-14 25S-00715-03			3									
2025-05-22 25S-00754-02	186	<1.0		19.8	<0.01	0.03	7.2	<1.0	<0.10	0.8	0.04	<0.001
2025-05-22 25S-00754-03			5									
2025-05-27 25S-00782-10	188	1.5		17.6	<0.01	0.04	7.1	<1.0	<0.10	1.0	0.05	<0.001
2025-05-27 25S-00782-17			17									
2025-06-04 25S-00818-02	203	1.3		14.8	0.01	<0.02	7.1	1.4	<0.10	0.5	0.03	<0.001
2025-06-04 25S-00818-03			2									
2025-06-10 25S-00836-10	203	1.1		17.2	0.02	<0.02	7.2	1.2	<0.10	1.0	0.03	<0.001
2025-06-10 25S-00836-17			1									
2025-06-19 25S-00884-10	192	<1.0		21.6	0.03	0.03	7.1	1.6	<0.10	0.9	0.04	<0.001
2025-06-19 25S-00884-17			0									
2025-06-24 25S-00912-02	190	1.8		17.4	0.03	<0.02	7.2	2.2	<0.10	0.6	0.05	<0.001
2025-06-24 25S-00912-03			1									
2025-07-03 25S-00957-02	204	2.4		17.4	0.03	<0.02	7.2	1.6	<0.10	1.1	0.03	<0.001
2025-07-03 25S-00957-03			0									
2025-07-09 25S-00987-02	172	1.6		19.8	0.02	0.03	7.4	1.2	<0.10	0.8	0.04	<0.001
2025-07-09 25S-00987-03			2									
2025-07-15 25S-01021-10	181	1.7		17.9	0.01	0.02	7.2	1.8	<0.10	1.1	0.07	<0.001
2025-07-15 25S-01021-17			3									
2025-07-22 25S-01071-10	184	1.1		16.5	0.01	0.02	7.2	1.6	<0.10	0.9	0.06	<0.001
2025-07-22 25S-01071-17			2									
2025-07-30 25S-01127-02	186	<1.0		18.2	<0.01	0.03	7.3	1.6	<0.10	0.9	0.05	<0.001
2025-07-30 25S-01127-03			0									
2025-08-07 25S-01163-02	111	1.5		18.6	<0.01	0.03	7.3	1.6	<0.10	1.0	0.05	<0.001



Wastewater Performance Summary

2025

Regional Municipality of Halton

1135 Lakeshore Rd

Burlington, ON L7S 1A8

Phone: 905-825-6000 x 3030

Halton Regional Laboratory

Acton WWTP

Final Effluent

	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
	mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
2025-08-07 255-01163-03			2									
2025-08-13 255-01199-10	188	<1.0		17.9	<0.01	0.02	7.3	1.2	<0.10	0.9	0.05	<0.001
2025-08-13 255-01199-17			2									
2025-08-19 255-01242-10	174	1.7		17.0	<0.01	0.02	7.3	1.4	<0.10	0.9	0.05	<0.001
2025-08-19 255-01242-17			4									
2025-08-27 255-01288-02	179	<1.0		17.3	<0.01	0.03	7.3	1.8	<0.10	1.1	0.07	<0.001
2025-08-27 255-01288-03			12									
2025-09-04 255-01324-02	187	1.1		16.9	<0.01	0.02	7.2	1.8	<0.10	0.5	0.05	<0.001
2025-09-04 255-01324-03			2									
2025-09-09 255-01342-02	195	1.7		15.8	<0.01	0.03	7.2	1.4	<0.10	0.5	0.06	<0.001
2025-09-09 255-01342-03			2									
2025-09-17 255-01396-10	163	1.9		19.4	<0.01	0.03	7.2	1.4	<0.10	0.9	0.06	<0.001
2025-09-17 255-01396-17			4									
2025-09-25 255-01435-02	187	<1.0		18.2	<0.01	0.02	7.2	2.4	<0.10	0.9	0.06	<0.001
2025-09-25 255-01435-03			1									
2025-09-30 255-01480-10	193	1.7		15.9	<0.01	0.02	7.1	1.6	<0.10	0.6	0.07	<0.001
2025-09-30 255-01480-17			0									
2025-10-07 255-01502-10	192	<1.0		17.4	<0.01	0.03	7.2	<1.0	<0.10	1.0	0.05	<0.001
2025-10-07 255-01502-17			5									
2025-10-16 255-01539-02	185	<1.0		18.1	<0.01	0.03	7.2	1.4	<0.10	0.7	0.04	<0.001
2025-10-16 255-01539-03			0									
2025-10-22 255-01567-10	185	<1.0		16.5	<0.01	0.02	7.1	1.2	<0.10	0.9	0.05	<0.001
2025-10-22 255-01567-17			0									
2025-10-28 255-01622-02	182	<1.0		15.6	<0.01	<0.02	7.0	<1.0	<0.10	1.0	0.06	<0.001
2025-10-28 255-01622-03			0									
2025-11-05 255-01695-10	153	1.1		18.5	<0.01	0.03	7.3	<1.0	<0.10	0.5	0.05	<0.001
2025-11-05 255-01695-17			2									
2025-11-11 255-01714-02	171	<1.0		18.5	<0.01	0.04	7.4	<1.0	<0.10	0.9	0.04	<0.001
2025-11-11 255-01714-03			1									
2025-11-20 255-01760-10	166	<1.0		18.1	<0.01	<0.02	7.1	<1.0	<0.10	0.5	<0.02	<0.001
2025-11-20 255-01760-17			0									
2025-11-25 255-01800-02	190	<1.0		18.3	<0.01	0.02	7.3	1.0	<0.10	0.7	0.04	<0.001
2025-11-25 255-01800-03			1									



Wastewater Performance Summary

2025

Regional Municipality of Halton

1135 Lakeshore Rd

Burlington, ON L7S 1A8

Phone: 905-825-6000 x 3030

Halton Regional Laboratory

Acton WWTP

Final Effluent

		Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
		mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
2025-12-04 25S-01856-10		153	<1.0		18.8	<0.01	0.03	7.2	1.0	<0.10	1.0	0.04	<0.001
2025-12-04 25S-01856-17				0									
2025-12-10 25S-01884-02		191	<1.0		19.2	<0.01	<0.02	7.3	<1.0	<0.10	0.9	0.05	<0.001
2025-12-10 25S-01884-03				0									
2025-12-16 25S-01918-02		191	<1.0		18.9	<0.01	<0.02	7.3	1.2	<0.10	1.1	0.05	<0.001
2025-12-16 25S-01918-03				0									
2025-12-22 25S-01927-02		169	1.9		20.2	<0.01	<0.02	7.3	1.0	<0.10	1.0	0.05	<0.001
2025-12-22 25S-01927-03				2									
2025-12-29 25S-01938-02		166	1.5		19.0	0.11	<0.02	7.1	2.6	0.26	1.1	0.09	<0.001
2025-12-29 25S-01938-03				0									
Average		191	1.3	2	17.8	0.01	0.02	7.2	1.4	0.10	0.9	0.05	<0.001
Minimum		111	<1.0	0	13.5	<0.01	<0.02	7.0	<1.0	<0.10	0.5	<0.02	<0.001
Maximum		304	2.4	22	21.6	0.11	0.04	7.6	2.8	0.26	1.4	0.09	<0.001
Count		54	54	55	54	54	54	54	54	54	54	54	54



Wastewater Performance Summary

2025

Regional Municipality of Halton

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Halton Regional Laboratory

Acton WWTP

Raw Sewage

Sample Date	Sample ID	Alkalinity	Ortho - Phosphates	Suspended Solids	Total Ammonia Nitrogen	Total BOD	Total Kjeldahl Nitrogen	Total Phosphorus
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2025-01-07	255-00007-01	400	1.74	160	23.4	160	41.2	4.56
2025-01-14	255-00031-01	392	1.38	210	25.1	150	39.6	4.60
2025-01-23	255-00072-01	399	1.70	180	26.0	160	38.9	3.99
2025-01-28	255-00099-01	386	1.40	190	24.6	210	40.9	4.50
2025-02-04	255-00123-01	396	1.64	190	28.6	160	43.2	4.66
2025-02-12	255-00153-01	351	1.07	260	22.8	170	30.5	5.62
2025-02-20	255-00194-01	393	2.42	260	23.3	210	52.7	5.68
2025-02-25	255-00242-01	419	2.06	210	29.3	180	45.8	4.60
2025-03-05	255-00281-01	380	2.07	180	21.1	140	38.6	4.05
2025-03-13	255-00333-01	373	2.10	160	21.1	120	36.0	4.19
2025-03-18	255-00367-01	360	1.08	200	16.2	86	27.0	3.09
2025-03-26	255-00419-01	347	1.09	190	18.3	150	29.6	3.74
2025-04-01	255-00473-01	362	0.96	97	17.1	75	26.8	2.71
2025-04-09	255-00509-01	379	0.80	140	16.1	110	27.7	2.46
2025-04-15	255-00557-01	346	1.22	150	16.3	110	24.6	2.73
2025-04-24	255-00597-01	414	1.92	260	26.8	240	54.6	5.78
2025-04-29	255-00642-01	392	1.46	150	19.9	140	36.2	3.24
2025-05-06	255-00683-01	478	3.61	430	30.6	340	77.4	10.6
2025-05-14	255-00715-01	382	1.20	170	18.2	95	31.6	2.99
2025-05-22	255-00754-01	407	1.84	190	24.4	140	43.9	4.25
2025-05-27	255-00782-01	355	1.25	220	20.5	140	33.2	3.28
2025-06-04	255-00818-01	378	0.74	140	16.4	93	25.6	3.08
2025-06-10	255-00836-01	403	1.87	240	24.5	140	43.5	4.08
2025-06-19	255-00884-01	417	1.76	250	28.6	170	43.4	4.45
2025-06-24	255-00912-01	403	1.16	180	19.8	170	30.7	3.86
2025-07-03	255-00957-01	398	1.90	240	23.8	190	43.0	4.50
2025-07-09	255-00987-01	423	1.87	220	29.4	190	47.7	6.50
2025-07-15	255-01021-01	373	2.20	280	24.4	220	48.8	5.06
2025-07-22	255-01071-01	412	2.30	310	23.7	240	53.5	6.35
2025-07-30	255-01127-01	392	1.38	170	25.5	110	36.6	3.82
2025-08-07	255-01163-01	399	1.60	200	25.2	190	41.3	4.61
2025-08-13	255-01199-01	404	1.19	210	26.2	180	40.7	3.85
2025-08-19	255-01242-01	396	1.44	160	23.5	160	34.9	3.66



Wastewater Performance Summary

2025

Regional Municipality of Halton

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Halton Regional Laboratory

Acton WWTP

Raw Sewage

	Alkalinity	Ortho - Phosphates	Suspended Solids	Total Ammonia Nitrogen	Total BOD	Total Kjeldahl Nitrogen	Total Phosphorus
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2025-08-27 25S-01288-01	416	3.05	250	44.0	200	75.2	6.89
2025-09-04 25S-01324-01	363	1.89	170	23.9	150	36.7	4.00
2025-09-09 25S-01342-01	479	2.89	140	30.7	190	50.2	6.39
2025-09-17 25S-01396-01	389	1.80	230	22.5	170	33.3	4.07
2025-09-25 25S-01435-01	385	1.71	230	23.9	170	36.1	4.96
2025-09-30 25S-01480-01	396	1.48	220	23.1	160	34.5	4.71
2025-10-07 25S-01502-01	416	3.10	350	27.1	320	54.6	9.07
2025-10-16 25S-01539-01	411	2.83	310	30.8	270	52.9	7.43
2025-10-22 25S-01567-01	395	1.23	190	21.4	170	33.9	3.84
2025-10-28 25S-01622-01	393	1.66	270	27.5	200	43.8	5.66
2025-11-05 25S-01695-01	405	1.78	230	23.6	180	45.4	4.85
2025-11-11 25S-01714-01	403	4.67	320	30.3	340	54.5	9.28
2025-11-20 25S-01760-01	380	1.51	160	22.1	160	37.5	3.38
2025-11-25 25S-01800-01	400	1.59	180	23.5	130	43.0	3.85
2025-12-04 25S-01856-01	380	1.65	180	25.2	180	39.2	4.21
2025-12-10 25S-01884-01	370	2.00	170	25.3	180	42.0	4.19
2025-12-16 25S-01918-01	401	2.44	210	29.1	120	53.9	4.85
2025-12-22 25S-01927-01	371	1.90	230	22.0	160	40.2	5.72
2025-12-29 25S-01938-01	283	1.22	140	13.7	180	24.3	3.14
Average	391	1.80	210	24.0	170	41.2	4.72
Minimum	283	0.74	97	13.7	75	24.3	2.46
Maximum	479	4.67	430	44.0	340	77.4	10.6
Count	52	52	52	52	52	52	52

2025 GEORGETOWN WWTP FLOW AND LOADING



INFLUENT FLOW		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total Effluent	10 ³ m ³	378.771	293.731	467.765	449.420	419.322	431.083	401.339	382.428	398.168	420.256	386.039	361.725
Average Daily ¹	10 ³ m ³	12.218	10.490	15.089	14.981	13.527	14.369	12.946	12.336	13.272	13.557	12.868	11.669
Maximum Daily	10 ³ m ³	16.415	14.236	27.418	46.879	23.960	17.364	18.079	17.215	16.894	15.197	14.810	27.214
INFLUENT CONCENTRATION													
BOD ₅	mg/L	360	280	260	220	240	250	220	240	280	240	230	330
TSS	mg/L	420	320	380	330	330	320	290	290	350	330	290	330
TKN	mg/L	49.3	43.3	41.8	38.2	40.0	38.2	42.2	42.3	42.6	46.0	42.1	48.5
TP	mg/L	8.44	7.99	7.24	6.04	7.37	7.10	7.89	8.22	9.40	9.75	8.79	7.96
INFLUENT LOADING													
BOD ₅	kg/day	4398.48	2937.20	3923.14	3295.82	3246.48	3592.25	2848.12	2960.64	3716.16	3253.68	2959.64	3850.77
TSS	kg/day	5131.56	3356.80	5733.82	4943.73	4463.91	4598.08	3754.34	3577.44	4645.20	4473.81	3731.72	3850.77
TKN	kg/day	602.35	454.22	630.72	572.27	541.08	548.90	546.32	521.81	565.39	623.62	541.74	565.95
TP	kg/day	103.12	83.82	109.24	90.49	99.69	102.02	102.14	101.40	124.76	132.18	113.11	92.89

EFFLUENT FLOW		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total Effluent	10 ³ m ³	441.938	395.044	592.282	559.283	481.021	440.635	439.561	426.260	410.500	411.501	405.855	465.526
Average Daily ¹	10 ³ m ³	14.256	14.109	19.106	18.643	15.517	14.688	14.179	13.750	13.683	13.274	13.528	15.017
Maximum Daily	10 ³ m ³	16.790	18.247	29.699	45.942	26.226	17.973	18.784	19.797	17.349	14.896	14.728	25.704
EFFLUENT CONCENTRATION													
CBOD ₅	mg/L	2.2	1.2	1.7	3.5	1.5	1.5	1.1	1.1	1.5	1.3	1.0	1.6
TSS	mg/L	3.8	2.0	2.2	4.2	1.5	2.6	1.4	1.8	1.9	1.1	1.1	2.6
NH ₃ -N	mg/L	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.001	0.001	0.001	0.002
TP	mg/L	0.17	0.16	0.10	0.21	0.17	0.23	0.21	0.23	0.22	0.13	0.13	0.15
E. Coli	CFU/100ml				1	1	1	1	0	1	0		
EFFLUENT LOADING													
CBOD ₅	kg/day	31.36	16.93	32.48	65.25	23.28	22.03	15.60	15.13	20.52	17.26	13.53	24.03
TSS	kg/day	54.17	28.22	42.03	78.30	23.28	38.19	19.85	24.75	26.00	14.60	14.88	39.04
NH ₃ -N	kg/day	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.03	0.01	0.01	0.01	0.03
TP	kg/day	2.42	2.26	1.91	3.92	2.64	3.38	2.98	3.16	3.01	1.73	1.76	2.25

¹ "average daily flow" means the total sewage flow to the sewage works during the periods of operation upon which the report is based, divided by the number of days during the same period of time.

The calculated yearly average loadings may not correspond to the data reported in the Regional Laboratory summary. This discrepancy is due to rounding.



Wastewater Analysis, Monthly Averages

Regional Municipality of Halton

1135 Lakeshore Rd

Burlington, ON L7S 1A8

Phone: 905-825-6000 x 3030

Halton Regional Laboratory

Georgetown WWTP, 2025

Final Effluent

Sample Date (Month)	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
	mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
January 2025	181	2.2		24.4	0.01	0.09	6.9	3.8	<0.10	1.2	0.17	<0.001
February 2025	171	1.2		27.8	0.03	0.11	6.9	2.0	<0.10	1.2	0.16	<0.001
March 2025	215	1.7		21.0	0.05	0.06	7.2	2.2	<0.10	1.0	0.10	<0.001
April 2025	195	3.5	1	23.4	0.04	0.11	6.9	4.2	0.12	1.1	0.21	<0.001
May 2025	186	1.5	1	23.0	0.04	0.13	7.1	1.5	0.11	1.1	0.17	0.001
June 2025	189	1.5	1	26.7	0.03	0.18	6.9	2.6	<0.10	1.2	0.23	<0.001
July 2025	180	1.1	1	24.1	0.05	0.17	7.1	1.4	<0.10	1.2	0.21	<0.001
August 2025	159	1.1	0	25.1	0.07	0.20	7.0	1.8	0.28	1.2	0.23	0.002
September 2025	186	1.5	1	21.5	0.04	0.18	7.0	1.9	0.10	1.1	0.22	<0.001
October 2025	164	1.3	0	25.3	0.02	0.11	7.1	1.1	<0.10	1.0	0.13	<0.001
November 2025	167	<1.0		26.8	0.02	0.12	7.3	1.1	<0.10	0.8	0.13	<0.001
December 2025	180	1.6		20.0	0.07	0.10	7.3	2.6	0.18	1.2	0.15	0.002
Annual Average	181	1.7	1	24.0	0.04	0.13	7.0	2.4	0.12	1.1	0.18	0.001
Annual Minimum	122	<1.0	0	15.0	<0.01	0.04	6.6	<1.0	<0.10	0.6	0.08	<0.001
Annual Maximum	305	13	2	32.7	0.30	0.21	7.7	32	0.80	1.8	0.78	0.005
Annual Count	52	55	31	52	52	52	55	60	54	52	60	54
# Results Outside Limits	0	1	0	0	0	0	0	2	0	0	1	0
Month Average	181	1.6	1	24.1	0.04	0.13	7.1	2.2	0.12	1.1	0.18	0.001
% Results Within Limits	100	98	100	100	100	100	100	97	100	100	98	100
Limit	-/-	-/5	-/200	-/-	-/-	-/-	6.0/9.5	-/5.0	-/-	-/-	-/0.30	-/0.02

1. The detail section of this report displays the monthly averages, which are an arithmetic mean with the exception of E.coli, which is a geometric mean.
2. In order to calculate a geometric mean for the E.coli analysis, results of zero are first replaced with one.
3. The **Annual Average** in the summary section represents an average of every result for this facility. This is an annual geometric mean for E.coli.
4. If any result is less than the **Method Detection Limit**, then the detection limit is used in calculating the average. If all results are < MDL, then the average will also be reported as < MDL.
5. The **# Results Outside Limits** and **% Results Within Limits** represent statistics comparing individual results to the ECA limit. It does not necessarily represent non-compliance.



Wastewater Analysis, Monthly Averages

Regional Municipality of Halton

1135 Lakeshore Rd

Burlington, ON L7S 1A8

Phone: 905-825-6000 x 3030

Halton Regional Laboratory

Georgetown WWTP, 2025

Raw Sewage

Sample Date (Month)	Alkalinity	Carbonaceous BOD	Ortho - Phosphates	Soluble CBOD	Suspended Solids	Total Ammonia Nitrogen	Total BOD	Total Kjeldahl Nitrogen	Total Phosphorus
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
January 2025	413	220	2.71	47	420	17.2	360	49.3	8.44
February 2025	409	170	2.86	17	320	21.0	280	43.3	7.99
March 2025	363	180	2.10	17	380	14.4	260	41.8	7.24
April 2025	386	53	2.07	2.7	330	14.6	220	38.2	6.04
May 2025	408	140	2.78	9.9	330	15.7	240	40.0	7.37
June 2025	419	200	3.07	14	320	18.4	250	38.2	7.10
July 2025	421	190	3.75	13	290	17.8	220	42.2	7.89
August 2025	438	130	4.73	34	290	18.0	240	42.3	8.22
September 2025	424	140	4.72	13	350	17.1	280	42.6	9.40
October 2025	417	160	4.74	13	330	15.1	240	46.0	9.75
November 2025	436	170	4.59	9.3	290	16.8	230	42.1	8.79
December 2025	395	230	3.55	39	330	17.9	330	48.5	7.96
Annual Average	410	170	3.48	19	330	17.0	260	42.9	8.00
Annual Minimum	284	53	1.32	2.7	170	10.7	170	28.3	3.49
Annual Maximum	458	230	5.75	47	600	23.0	470	70.0	12.5
Annual Count	52	12	52	12	52	52	52	52	52
# Results Outside Limits	0	0	0	0	0	0	0	0	0
Month Average	411	170	3.47	19	330	17.0	260	42.9	8.02
% Results Within Limits	100	100	100	100	100	100	100	100	100
Limit	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-	-/-

1. The detail section of this report displays the monthly averages, which are an arithmetic mean with the exception of E.coli, which is a geometric mean.
2. In order to calculate a geometric mean for the E.coli analysis, results of zero are first replaced with one.
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Wastewater Performance Summary

2025

Regional Municipality of Halton

1135 Lakeshore Rd

Burlington, ON L7S 1A8

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Halton Regional Laboratory

Georgetown WWTP

Final Effluent

Sample Date	Sample ID	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
		mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
2025-01-07	255-00008-05	189	2.4		20.1	0.01	0.04	6.9	2.2	<0.10	1.1	0.10	<0.001
2025-01-14	255-00032-02	155	1.9		24.5	<0.01	0.08	6.8	3.6	<0.10	1.1	0.16	<0.001
2025-01-23	255-00073-05	190	1.6		27.8	<0.01	0.10	7.3	5.0	<0.10	1.3	0.19	<0.001
2025-01-28	255-00100-02	188	2.7		25.2	<0.01	0.12	6.7	4.4	<0.10	1.2	0.24	<0.001
2025-02-04	255-00124-05	172	1.6		28.3	0.02	0.13	6.8	2.8	<0.10	1.5	0.18	<0.001
2025-02-12	255-00154-05	190	<1.0		26.7	0.01	0.11	6.7	1.4	<0.10	1.2	0.15	<0.001
2025-02-20	255-00195-02	177	<1.0		29.1	0.03	0.11	6.7	1.2	<0.10	0.9	0.16	<0.001
2025-02-25	255-00243-02	146	<1.0		27.2	0.04	0.08	7.2	2.4	<0.10	1.3	0.14	<0.001
2025-03-05	255-00282-05	176	3.1		25.7	0.02	0.08	7.3	1.4	<0.10	1.2	0.11	<0.001
2025-03-13	255-00334-02	305	1.1		18.4	<0.01	0.05	6.8	2.2	<0.10	0.9	0.08	<0.001
2025-03-18	255-00368-02	202	<1.0		15.1	0.16	0.05	7.4	2.2	<0.10	1.1	0.10	<0.001
2025-03-26	255-00420-05	176	1.5		24.6	<0.01	0.07	7.4	2.8	<0.10	0.9	0.11	<0.001
2025-04-01	255-00474-05	203	<1.0		16.1	0.02	0.06	6.9	<1.0	0.21	1.0	0.14	<0.001
2025-04-01	255-00474-10			0									
2025-04-03	255-00519-01		3.0					6.7	3.4	<0.10		0.15	<0.001
2025-04-04	255-00525-01		13*					6.6	32*	<0.10		0.78*	<0.001
2025-04-09	255-00510-02	211	1.3		20.4	0.03	0.07	7.0	1.2	<0.10	1.1	0.08	<0.001
2025-04-09	255-00510-03			1									
2025-04-15	255-00558-05	190	1.7		22.0	0.05	0.10	7.4	2.2	<0.10	1.1	0.14	<0.001
2025-04-15	255-00558-10			1									
2025-04-16	255-00590-01								2.0			0.15	
2025-04-17	255-00603-01								1.4			0.14	
2025-04-21	255-00619-01								1.6			0.19	
2025-04-22	255-00622-01								1.6			0.18	
2025-04-23	255-00634-01								1.2			0.16	
2025-04-24	255-00598-02	179	1.6		32.7	0.03	0.14	6.6	1.4	<0.10	1.3	0.21	<0.001
2025-04-24	255-00598-03			1									
2025-04-29	255-00643-02	192	2.8		25.9	0.05	0.20	7.4	1.4	0.10	1.2	0.25	<0.001
2025-04-29	255-00643-03			0									
2025-05-06	255-00684-02	194	2.2		24.0	0.05	0.11	6.6	1.6	<0.10	1.0	0.14	<0.001
2025-05-06	255-00684-03			0									
2025-05-15	255-00716-05	211	<1.0		18.3	0.07	0.16	7.4	1.4	0.12	1.3	0.22	0.001
2025-05-15	255-00716-10			0									



Wastewater Performance Summary

2025

Regional Municipality of Halton

1135 Lakeshore Rd

Burlington, ON L7S 1A8

Phone: 905-825-6000 x 3030

Halton Regional Laboratory

Georgetown WWTP

Final Effluent

	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
	mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
2025-05-22 25S-00755-02	187	<1.0		25.0	0.02	0.15	7.3	1.6	<0.10	1.0	0.20	<0.001
2025-05-22 25S-00755-03			0									
2025-05-27 25S-00783-05	153	1.8		24.8	0.02	0.10	6.9	1.4	<0.10	0.9	0.11	<0.001
2025-05-27 25S-00783-10			1									
2025-06-04 25S-00819-02	187	1.8		24.0	0.03	0.20	6.7	2.0	<0.10	1.3	0.26	<0.001
2025-06-04 25S-00819-03			0									
2025-06-10 25S-00837-02	188	1.0		25.7	0.02	0.14	7.5	2.4	<0.10	1.2	0.19	<0.001
2025-06-10 25S-00837-03			0									
2025-06-19 25S-00885-05	196	<1.0		31.2	0.03	0.21	6.7	4.8	<0.10	1.6	0.26	<0.001
2025-06-19 25S-00885-10			0									
2025-06-24 25S-00913-05	183	2.1		26.0	0.03	0.18	6.7	1.0	<0.10	0.8	0.20	<0.001
2025-06-24 25S-00913-10			2									
2025-07-03 25S-00958-02	218	<1.0		20.9	0.08	0.21	7.5	1.0	<0.10	1.2	0.22	<0.001
2025-07-03 25S-00958-03			0									
2025-07-09 25S-00988-05	188	<1.0		24.7	0.05	0.18	6.8	<1.0	<0.10	1.1	0.21	<0.001
2025-07-09 25S-00988-10			0									
2025-07-16 25S-01022-02	167	<1.0		24.3	0.04	0.16	7.4	1.2	<0.10	1.0	0.20	<0.001
2025-07-16 25S-01022-03			0									
2025-07-22 25S-01072-02	159	1.6		25.8	0.03	0.14	6.8	2.0	<0.10	1.0	0.20	<0.001
2025-07-22 25S-01072-03			1									
2025-07-30 25S-01128-05	166	<1.0		25.0	0.04	0.17	6.8	1.8	<0.10	1.6	0.23	<0.001
2025-07-30 25S-01128-10			0									
2025-08-07 25S-01164-02	146	1.6		29.1	0.04	0.20	6.8	2.2	<0.10	1.3	0.24	<0.001
2025-08-07 25S-01164-03			0									
2025-08-08 25S-01211-01		<1.0					7.4	2.2			0.28	
2025-08-13 25S-01200-02	152	<1.0		27.2	0.02	0.21	6.8	2.4	<0.10	1.2	0.24	<0.001
2025-08-13 25S-01200-03			0									
2025-08-19 25S-01245-05	150	<1.0		22.6	0.19	0.17	6.9	<1.0	0.80	1.5	0.18	0.003
2025-08-19 25S-01245-10			0									
2025-08-27 25S-01289-05	187	<1.0		21.3	0.02	0.20	6.9	1.2	<0.10	0.9	0.22	<0.001
2025-08-27 25S-01289-10			0									
2025-09-04 25S-01325-02	186	<1.0		22.7	0.05	0.21	6.8	1.8	0.12	1.1	0.25	<0.001
2025-09-04 25S-01325-03			0									



Wastewater Performance Summary

2025

Regional Municipality of Halton

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Burlington, ON L7S 1A8

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Halton Regional Laboratory

Georgetown WWTP

Final Effluent

	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
	mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
2025-09-09 25S-01344-05	181	2.4		24.3	0.04	0.17	7.0	2.8	<0.10	1.0	0.24	<0.001
2025-09-09 25S-01344-10			0									
2025-09-17 25S-01397-02	190	1.9		21.6	0.03	0.21	6.9	1.4	<0.10	1.4	0.26	<0.001
2025-09-17 25S-01397-03			0									
2025-09-25 25S-01436-02	183	<1.0		17.2	0.04	0.17	7.0	1.6	<0.10	1.2	0.19	<0.001
2025-09-25 25S-01436-03			0									
2025-09-30 25S-01481-05	189	<1.0		21.7	0.02	0.16	7.2	1.8	<0.10	0.9	0.16	<0.001
2025-09-30 25S-01481-10			2									
2025-10-07 25S-01503-02	159	<1.0		24.1	0.02	0.12	7.0	1.2	<0.10	1.1	0.14	<0.001
2025-10-07 25S-01503-03			0									
2025-10-16 25S-01540-05	166	<1.0		26.3	0.02	0.11	7.0	1.2	<0.10	0.7	0.12	<0.001
2025-10-16 25S-01540-10			0									
2025-10-22 25S-01568-02	167	1.1		23.7	0.02	0.11	7.3	1.0	<0.10	1.1	0.14	<0.001
2025-10-22 25S-01568-03			0									
2025-10-28 25S-01623-05	162	2.0		27.2	0.01	0.08	7.2	1.0	<0.10	0.9	0.11	<0.001
2025-10-28 25S-01623-10			0									
2025-11-05 25S-01696-02	148	<1.0		28.4	0.02	0.13	7.3	1.0	<0.10	0.7	0.15	<0.001
2025-11-11 25S-01715-05	162	<1.0		23.9	0.01	0.09	7.3	<1.0	<0.10	1.1	0.10	<0.001
2025-11-20 25S-01761-02	181	<1.0		26.3	0.01	0.15	7.2	1.2	<0.10	0.6	0.14	<0.001
2025-11-25 25S-01801-05	177	<1.0		28.4	0.02	0.12	7.2	<1.0	<0.10	0.9	0.13	<0.001
2025-12-04 25S-01857-02	211	1.1		15.0	0.01	0.12	7.2	<1.0	<0.10	1.2	0.14	<0.001
2025-12-10 25S-01885-05	193	<1.0		21.4	<0.01	0.10	7.2	1.2	<0.10	1.0	0.14	<0.001
2025-12-16 25S-01919-02	186	1.4		21.9	0.01	0.07	7.2	1.0	<0.10	1.1	0.10	<0.001
2025-12-22 25S-01928-02	187	1.1		19.2	0.01	0.15	7.3	1.6	<0.10	1.1	0.13	<0.001
2025-12-29 25S-01939-02	122	3.2		22.5	0.30	0.06	7.7	8.4*	0.48	1.8	0.23	0.005
Average	181	1.7	1	24.0	0.04	0.13	7.0	2.4	0.12	1.1	0.18	0.001
Minimum	122	<1.0	0	15.0	<0.01	0.04	6.6	<1.0	<0.10	0.6	0.08	<0.001
Maximum	305	13	2	32.7	0.30	0.21	7.7	32	0.80	1.8	0.78	0.005
Count	52	55	31	52	52	52	55	60	54	52	60	54



Wastewater Performance Summary

2025

Regional Municipality of Halton

1135 Lakeshore Rd

Burlington, ON L7S 1A8

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Halton Regional Laboratory

Georgetown WWTP

Raw Sewage

Sample Date	Sample ID	Alkalinity	Carbonaceous BOD	Ortho - Phosphates	Soluble CBOD	Suspended Solids	Total Ammonia Nitrogen	Total BOD	Total Kjeldahl Nitrogen	Total Phosphorus
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2025-01-07	255-00008-01	396	220	3.08	47	280	12.4	370	41.1	6.21
2025-01-14	255-00032-01	389		1.98		470	16.3	300	50.5	8.29
2025-01-23	255-00073-01	419		1.98		490	18.7	400	58.1	8.37
2025-01-28	255-00100-01	446		3.81		440	21.5	380	47.6	10.9
2025-02-04	255-00124-01	430		3.33		290	21.5	240	42.1	8.67
2025-02-12	255-00154-01	390	170	2.78	17	370	20.7	290	38.5	7.31
2025-02-20	255-00195-01	427		2.78		330	23.0	350	51.5	8.59
2025-02-25	255-00243-01	390		2.53		300	18.6	250	41.1	7.39
2025-03-05	255-00282-01	369	180	3.10	17	320	17.7	250	49.1	8.56
2025-03-13	255-00334-01	370		1.72		380	12.7	260	35.0	6.92
2025-03-18	255-00368-01	350		1.86		320	10.7	240	34.6	5.34
2025-03-26	255-00420-01	364		1.71		490	16.6	290	48.4	8.13
2025-04-01	255-00474-01	356	53	1.32	2.7	170	11.2	170	28.3	4.20
2025-04-09	255-00510-01	401		1.72		260	14.8	180	32.7	4.38
2025-04-15	255-00558-01	361		1.89		390	14.4	250	38.4	6.66
2025-04-24	255-00598-01	414		3.20		490	16.6	320	56.7	9.15
2025-04-29	255-00643-01	398		2.22		320	15.8	190	34.9	5.82
2025-05-06	255-00684-01	436		2.19		290	14.0	220	35.9	6.65
2025-05-15	255-00716-01	439	140	2.59	9.9	360	15.1	230	43.1	7.58
2025-05-22	255-00755-01	385		3.47		330	16.7	290	43.8	8.52
2025-05-27	255-00783-01	371		2.85		320	16.8	220	37.1	6.72
2025-06-04	255-00819-01	413		3.19		270	16.8	290	35.7	7.17
2025-06-10	255-00837-01	421		2.57		270	17.7	230	36.2	6.17
2025-06-19	255-00885-01	429	200	3.69	14	390	21.0	290	45.3	8.58
2025-06-24	255-00913-01	414		2.84		340	18.0	200	35.4	6.47
2025-07-03	255-00958-01	410		4.02		320	15.6	230	37.8	7.60
2025-07-09	255-00988-01	431	190	2.83	13	340	17.7	250	45.2	8.47
2025-07-15	255-01022-01	400		3.12		260	14.8	170	36.7	7.01
2025-07-22	255-01072-01	435		3.32		210	19.1	200	40.0	6.48
2025-07-30	255-01128-01	428		5.45		310	21.7	240	51.3	9.89
2025-08-07	255-01164-01	416		3.37		340	18.6	270	41.0	8.61
2025-08-13	255-01200-01	457		5.21		290	19.0	210	40.1	8.00
2025-08-19	255-01245-01	424		5.25		250	16.8	290	31.6	7.88



Wastewater Performance Summary

2025

Regional Municipality of Halton

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Halton Regional Laboratory

Georgetown WWTP

Raw Sewage

	Alkalinity	Carbonaceous BOD	Ortho - Phosphates	Soluble CBOD	Suspended Solids	Total Ammonia Nitrogen	Total BOD	Total Kjeldahl Nitrogen	Total Phosphorus
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2025-08-27 25S-01289-01	454	130	5.10	34	270	17.6	190	56.6	8.37
2025-09-04 25S-01325-01	414		4.72		180	18.6	230	37.9	8.11
2025-09-09 25S-01344-01	452	140	4.88	13	280	17.8	210	35.2	8.84
2025-09-17 25S-01397-01	403		4.49		350	13.6	250	38.6	8.67
2025-09-25 25S-01436-01	429		5.37		360	20.2	330	47.8	10.2
2025-09-30 25S-01481-01	423		4.13		600	15.1	400	53.5	11.2
2025-10-07 25S-01503-01	401		3.99		320	12.3	220	43.3	9.54
2025-10-16 25S-01540-01	413	160	5.18	13	410	16.7	280	58.8	10.9
2025-10-22 25S-01568-01	423		5.10		300	14.6	250	42.8	9.29
2025-10-28 25S-01623-01	432		4.69		270	16.9	210	39.1	9.25
2025-11-05 25S-01696-01	439		4.95		290	16.2	230	42.7	9.16
2025-11-11 25S-01715-01	433		2.85		250	17.8	190	36.3	6.58
2025-11-20 25S-01761-01	414	170	4.81	9.3	300	17.2	240	43.0	9.13
2025-11-25 25S-01801-01	458		5.75		330	16.0	260	46.2	10.3
2025-12-05 25S-01857-01	451		5.43		480	22.6	470	70.0	12.5
2025-12-10 25S-01885-01	404	230	4.76	39	250	19.3	280	47.4	8.85
2025-12-16 25S-01919-01	428		4.15		350	18.0	400	45.6	8.12
2025-12-22 25S-01928-01	407		1.89		360	17.8	290	48.0	6.82
2025-12-29 25S-01939-01	284		1.52		190	11.9	190	31.3	3.49
Average	410	170	3.48	19	330	17.0	260	42.9	8.00
Minimum	284	53	1.32	2.7	170	10.7	170	28.3	3.49
Maximum	458	230	5.75	47	600	23.0	470	70.0	12.5
Count	52	12	52	12	52	52	52	52	52

2025 MID HALTON WWTP FLOW AND LOADING



EFFLUENT FLOW		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total Effluent	10 ³ m ³	2478.107	2117.963	3246.760	2851.204	2723.836	2393.988	2455.281	2565.860	2598.369	2529.102	2451.112	2563.511
Average Daily ¹	10 ³ m ³	79.939	75.642	104.734	95.040	87.866	79.800	79.203	82.770	86.612	81.584	81.704	82.694
Maximum Daily	10 ³ m ³	110.351	102.894	154.321	242.670	146.644	113.378	97.834	111.759	125.498	97.834	91.848	169.882
EFFLUENT CONCENTRATION													
CBOD ₅	mg/L	1.7	1.4	1.4	2.8	1.5	1.8	1.7	2.8	2.0	1.8	1.6	1.4
TSS	mg/L	6.1	7.3	6.6	5.5	5.7	6.7	7.0	7.0	7.5	8.6	5.0	5.2
TAN	mg/L	0.89	0.63	0.71	0.47	0.12	0.53	0.55	1.66	1.06	0.44	0.35	0.38
TP	mg/L	0.46	0.60	0.49	0.50	0.49	0.59	0.54	0.50	0.46	0.53	0.37	0.43
E. Coli	CFU/100ml					17	22	22	45	98	48		
EFFLUENT LOADING													
CBOD ₅	kg/day	135.90	105.90	146.63	266.11	131.80	143.64	134.65	231.76	173.22	146.85	130.73	115.77
TSS	kg/day	487.63	552.19	691.24	522.72	500.84	534.66	554.42	579.39	649.59	701.62	408.52	430.01
TAN	kg/day	71.15	47.65	74.36	44.67	10.54	42.29	43.56	137.40	91.81	35.90	28.60	31.42
TP	kg/day	36.77	45.39	51.32	47.52	43.05	47.08	42.77	41.39	39.84	43.24	30.23	35.56

¹ "average daily flow" means the total sewage flow to the sewage works during the periods of operation upon which the report is based, divided by the number of days during the same period of time.

The calculated yearly average loadings may not correspond to the data reported in the Regional Laboratory summary. This discrepancy is due to rounding.

TAN: Total Ammonia Nitrogen



Wastewater Analysis, Monthly Averages

Regional Municipality of Halton

1135 Lakeshore Rd

Burlington, ON L7S 1A8

Phone: 905-825-6000 x 3030

Halton Regional Laboratory

Mid-Halton WWTP, 2025

Final Effluent

Sample Date (Month)	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
	mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
January 2025	37.2	1.7		29.5	0.47	0.12	6.8	6.1	0.89	1.6	0.46	0.002
February 2025	31.1	1.4		31.5	0.50	0.17	6.7	7.3	0.63	2.3	0.60	0.001
March 2025	74.6	1.4		24.9	0.28	0.11	6.9	6.6	0.71	1.8	0.49	0.002
April 2025	61.7	2.8		28.2	0.22	0.19	6.9	5.5	0.47	1.8	0.50	0.001
May 2025	61.7	1.5	17	27.3	0.16	0.22	6.8	5.7	0.12	1.5	0.49	<0.001
June 2025	53.7	1.8	22	30.8	0.52	0.30	6.9	6.7	0.53	1.9	0.59	0.002
July 2025	66.4	1.7	22	29.2	0.59	0.24	6.9	7.0	0.55	1.9	0.54	0.002
August 2025	61.8	2.8	45	28.5	0.59	0.23	7.0	7.0	1.66	2.7	0.50	0.009
September 2025	50.2	2.0	98	30.6	0.46	0.20	6.9	7.5	1.06	2.2	0.46	0.004
October 2025	55.5	1.8	48	27.9	0.17	0.18	6.9	8.6	0.44	1.7	0.53	0.002
November 2025	63.4	1.6		28.6	0.34	0.12	7.0	5.0	0.35	1.4	0.37	0.002
December 2025	65.0	1.4		24.2	0.31	0.16	7.1	5.2	0.38	1.8	0.43	0.002
Annual Average	57.3	1.8	35	28.4	0.38	0.19	6.9	6.5	0.63	1.9	0.50	0.002
Annual Minimum	20.6	<1.0	10	20.1	0.06	0.07	6.7	2.8	<0.10	0.8	0.33	<0.001
Annual Maximum	89.4	14	392	35.1	1.22	0.35	7.2	14	5.82	6.6	0.72	0.031
Annual Count	52	157	26	52	52	52	52	157	52	52	52	52
# Results Outside Limits	0	0	1	0	0	0	0	0	0	0	0	0
Month Average	56.9	1.8	42	28.4	0.38	0.19	6.9	6.5	0.65	1.9	0.50	0.003
% Results Within Limits	100	100	96	100	100	100	100	100	100	100	100	100
Limit	-/-	-/25	-/200	-/-	-/-	-/-	6.0/9.5	-/25	-/*	-/-	-/0.8	-/-

*Ammonia Nitrogen Limits are 10 (May - Nov) and 20 (Dec - Apr)

1. The detail section of this report displays the monthly averages, which are an arithmetic mean with the exception of E.coli, which is a geometric mean.
2. In order to calculate a geometric mean for the E.coli analysis, results of zero are first replaced with one.
3. The **Annual Average** in the summary section represents an average of every result for this facility. This is an annual geometric mean for E.coli.
4. If any result is less than the **Method Detection Limit**, then the detection limit is used in calculating the average. If all results are < MDL, then the average will also be reported as < MDL.
5. The **# Results Outside Limits** and **% Results Within Limits** represent statistics comparing individual results to the ECA limit. It does not necessarily represent non-compliance.



Wastewater Analysis, Monthly Averages

Regional Municipality of Halton

1135 Lakeshore Rd

Burlington, ON L7S 1A8

Phone: 905-825-6000 x 3030

Halton Regional Laboratory

Mid-Halton WWTP, 2025

Raw Sewage

Sample Date (Month)	Alkalinity	Ortho - Phosphates	Suspended Solids	Total Ammonia Nitrogen	Total BOD	Total Kjeldahl Nitrogen	Total Phosphorus
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
January 2025	261	2.24	230	33.8	220	52.1	5.46
February 2025	272	2.25	190	34.1	190	54.4	5.22
March 2025	256	1.63	190	26.3	160	42.8	4.43
April 2025	285	2.19	210	32.2	200	51.1	5.06
May 2025	303	2.62	240	33.9	210	56.0	5.60
June 2025	303	2.55	250	36.4	230	53.1	5.43
July 2025	303	2.38	230	36.2	230	57.5	5.36
August 2025	290	2.21	240	35.4	200	56.4	5.27
September 2025	312	2.54	230	35.9	200	56.0	5.60
October 2025	329	2.67	260	39.6	220	60.7	6.99
November 2025	305	2.30	240	38.5	220	61.2	5.61
December 2025	286	2.29	220	34.8	200	57.7	5.67
Annual Average	293	2.33	230	34.8	210	55.1	5.50
Annual Minimum	235	1.06	120	19.4	85	30.5	3.02
Annual Maximum	362	3.02	300	44.0	310	71.8	10.6
Annual Count	52	52	52	52	52	52	52
# Results Outside Limits	0	0	0	0	0	0	0
Month Average	292	2.32	230	34.8	210	54.9	5.48
% Results Within Limits	100	100	100	100	100	100	100
Limit	-/-	-/-	-/-	-/-	-/-	-/-	-/-

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4. If any result is less than the **Method Detection Limit**, then the detection limit is used in calculating the average. If all results are < MDL, then the average will also be reported as < MDL.
5. The **# Results Outside Limits** and **% Results Within Limits** represent statistics comparing individual results to the ECA limit. It does not necessarily represent non-compliance.



Wastewater Performance Summary

2025

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Mid-Halton WWTP

Final Effluent

Sample Date	Sample ID	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
		mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
2025-01-01	255-00001-01		1.8						5.2				
2025-01-03	255-00003-01		2.5						6.0				
2025-01-06	255-00005-01		2.4						5.2				
2025-01-08	255-00009-02	44.0	1.7		31.1	0.83	0.13	6.8	6.0	1.25	3.2	0.53	0.002
2025-01-10	255-00013-01		1.9						6.8				
2025-01-13	255-00029-01		2.1						6.4				
2025-01-15	255-00033-02	21.7	<1.0		32.2	0.47	0.14	6.7	5.2	0.49	1.1	0.47	<0.001
2025-01-17	255-00037-01		1.4						6.8				
2025-01-20	255-00066-01		<1.0						6.8				
2025-01-22	255-00070-08	42.1	1.2		26.3	0.23	0.09	6.9	5.2	0.21	1.0	0.39	<0.001
2025-01-24	255-00074-01		1.9						7.2				
2025-01-27	255-00097-01		2.4						5.2				
2025-01-29	255-00103-08	41.0	1.4		28.5	0.36	0.12	6.7	6.8	1.60	1.1	0.44	0.002
2025-01-31	255-00105-01		<1.0						7.2				
2025-02-03	255-00121-01		<1.0						5.6				
2025-02-05	255-00125-02	33.3	<1.0		30.9	0.39	0.10	6.7	6.4	0.94	2.7	0.43	0.001
2025-02-07	255-00129-01		1.1						6.4				
2025-02-10	255-00149-01		<1.0						6.0				
2025-02-12	255-00155-02	29.8	1.2		32.2	0.83	0.13	6.7	6.4	0.76	2.9	0.54	<0.001
2025-02-14	255-00157-01		1.1						6.4				
2025-02-18	255-00188-01		1.9						6.4				
2025-02-20	255-00190-08	20.6	1.3		34.0	0.23	0.19	6.7	8.0	0.23	1.5	0.69	<0.001
2025-02-22	255-00196-01		2.1						13				
2025-02-24	255-00240-01		2.0						8.4				
2025-02-26	255-00246-08	40.6	1.4		29.0	0.56	0.26	6.8	6.8	0.58	1.9	0.72	0.001
2025-02-28	255-00248-01		1.4						7.6				
2025-03-03	255-00278-01		2.6						7.6				
2025-03-05	255-00283-02	55.6	1.4		28.6	0.35	0.07	6.7	11	0.47	2.1	0.58	<0.001
2025-03-07	255-00288-01		<1.0						6.0				
2025-03-10	255-00326-01		<1.0						5.2				
2025-03-12	255-00331-02	89.4	<1.0		20.1	0.31	0.10	6.8	5.6	0.37	1.6	0.43	<0.001
2025-03-14	255-00335-01		1.6						6.0				
2025-03-17	255-00365-01		2.1						7.6				



Wastewater Performance Summary

2025

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Mid-Halton WWTP

Final Effluent

	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
	mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
2025-03-19 25S-00369-08	84.2	1.2		22.7	0.22	0.10	7.0	8.0	0.55	1.5	0.46	0.001
2025-03-21 25S-00373-01		2.2						6.4				
2025-03-24 25S-00415-01		1.0						5.6				
2025-03-26 25S-00421-08	69.2	1.1		28.0	0.23	0.15	6.9	6.0	1.43	2.0	0.49	0.003
2025-03-28 25S-00423-01		1.5						5.6				
2025-03-31 25S-00460-01		1.1						4.8				
2025-04-02 25S-00478-02	77.5	1.0		23.7	0.09	0.14	7.1	3.6	0.40	1.7	0.44	0.001
2025-04-04 25S-00482-01		2.7						8.8				
2025-04-07 25S-00504-01		2.2						4.0				
2025-04-09 25S-00511-02	81.4	1.5		25.7	0.20	0.10	7.2	5.6	0.52	1.6	0.39	0.002
2025-04-11 25S-00513-01		2.0						6.8				
2025-04-14 25S-00555-01		2.1						5.6				
2025-04-16 25S-00561-08	50.1	1.4		29.7	0.34	0.23	6.8	5.6	0.55	1.7	0.57	<0.001
2025-04-18 25S-00563-01		1.8						3.6				
2025-04-21 25S-00592-01		2.1						5.2				
2025-04-23 25S-00595-02	53.5	2.3		29.5	0.28	0.23	6.7	6.8	0.68	2.1	0.56	0.001
2025-04-25 25S-00601-01		1.1						4.8				
2025-04-28 25S-00640-01		2.2						4.8				
2025-04-30 25S-00644-08	46.0	14		32.2	0.18	0.24	6.8	6.0	0.22	1.9	0.55	<0.001
2025-05-02 25S-00679-01		1.9						5.6				
2025-05-05 25S-00681-01		2.0						4.4				
2025-05-07 25S-00686-02	61.8	2.9		29.3	0.13	0.24	6.7	4.4	<0.10	1.2	0.49	<0.001
2025-05-07 25S-00686-03			16									
2025-05-09 25S-00690-01		1.6						5.6				
2025-05-12 25S-00710-01		1.2						5.2				
2025-05-14 25S-00717-02	45.0	1.2		32.5	0.25	0.32	6.7	6.0	0.17	1.9	0.65	<0.001
2025-05-14 25S-00717-03			10									
2025-05-16 25S-00719-01		1.1						6.8				
2025-05-19 25S-00747-01		1.2						5.6				
2025-05-21 25S-00750-08	69.4	<1.0		24.1	0.20	0.18	6.8	6.8	<0.10	1.6	0.44	<0.001
2025-05-21 25S-00750-09			24									
2025-05-23 25S-00756-01		<1.0						8.8				
2025-05-26 25S-00780-01		1.9						5.6				



Wastewater Performance Summary

2025

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Final Effluent

	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
	mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
2025-05-28 25S-00786-08	70.7	1.1		23.3	0.06	0.14	6.8	4.8	<0.10	1.4	0.37	<0.001
2025-05-28 25S-00786-09			20									
2025-05-30 25S-00790-01		1.1						4.4				
2025-06-02 25S-00814-01		1.5						7.6				
2025-06-04 25S-00820-02	65.2	1.8		30.5	0.84	0.21	6.8	6.4	1.22	2.4	0.49	0.003
2025-06-04 25S-00820-03			22									
2025-06-06 25S-00824-01		<1.0						12				
2025-06-09 25S-00834-01		1.4						5.6				
2025-06-11 25S-00842-02	48.1	1.9		31.5	0.41	0.32	6.9	5.6	0.22	2.8	0.61	<0.001
2025-06-11 25S-00842-03			26									
2025-06-13 25S-00844-01		1.6						6.8				
2025-06-16 25S-00876-01		1.5						6.4				
2025-06-18 25S-00880-08	40.9	2.1		33.5	0.47	0.31	6.8	6.0	0.34	1.4	0.63	<0.001
2025-06-18 25S-00880-09			16									
2025-06-20 25S-00886-01		1.8						6.8				
2025-06-23 25S-00910-01		2.4						4.8				
2025-06-25 25S-00916-08	60.7	2.0		27.7	0.35	0.35	6.9	6.0	0.32	1.1	0.61	0.001
2025-06-25 25S-00916-09			28									
2025-06-27 25S-00920-01		1.7						8.4				
2025-06-30 25S-00949-01		2.1						4.8				
2025-07-02 25S-00951-08	83.4	1.8		22.9	0.32	0.20	7.2	7.2	0.35	1.7	0.50	0.002
2025-07-02 25S-00951-09			18									
2025-07-04 25S-00959-01		2.3						6.8				
2025-07-07 25S-00981-01		1.5						5.2				
2025-07-09 25S-00989-02	48.8	1.4		32.0	0.52	0.26	6.9	5.2	0.48	1.5	0.54	0.002
2025-07-09 25S-00989-03			16									
2025-07-11 25S-00991-01		1.1						8.8				
2025-07-14 25S-01019-01		2.3						6.4				
2025-07-16 25S-01025-02	67.9	1.5		25.3	0.50	0.22	6.8	7.2	0.35	1.6	0.50	<0.001
2025-07-16 25S-01025-03			24									
2025-07-18 25S-01029-01		1.3						6.4				
2025-07-21 25S-01069-01		2.0						8.0				
2025-07-23 25S-01075-08	61.5	2.5		34.0	0.79	0.23	6.8	6.8	0.82	2.1	0.53	0.002



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2025

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Final Effluent

	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
	mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
2025-07-23 255-01075-09			32									
2025-07-25 255-01079-01		2.3						8.4				
2025-07-28 255-01121-01		1.3						7.2				
2025-07-30 255-01129-02	70.4	1.0		32.0	0.82	0.27	6.8	7.6	0.77	2.6	0.65	0.002
2025-07-30 255-01129-03			24									
2025-08-01 255-01131-01		2.0						7.6				
2025-08-04 255-01157-01		3.0						6.0				
2025-08-06 255-01161-08	52.5	1.9		24.8	0.38	0.26	7.0	6.8	0.27	1.8	0.54	0.001
2025-08-06 255-01161-09			22									
2025-08-08 255-01167-01		7.9						7.6				
2025-08-11 255-01193-01		1.1						6.0				
2025-08-13 255-01201-02	81.0	2.4		26.8	1.22	0.29	7.0	7.2	5.82	6.6	0.60	0.031
2025-08-13 255-01201-03			46									
2025-08-15 255-01203-01		7.6						7.2				
2025-08-18 255-01240-01		2.1						9.2				
2025-08-20 255-01246-02	55.6	1.6		31.0	0.37	0.18	6.9	8.4	0.32	1.1	0.42	0.001
2025-08-20 255-01246-03			26									
2025-08-22 255-01250-01		1.8						6.0				
2025-08-25 255-01282-01		2.0						7.2				
2025-08-27 255-01290-08	58.2	1.4		31.3	0.37	0.19	6.9	6.8	0.24	1.3	0.43	<0.001
2025-08-27 255-01290-09			162									
2025-08-29 255-01292-01		1.2						5.6				
2025-09-01 255-01316-01		1.7						6.0				
2025-09-03 255-01320-08	46.7	1.8		29.0	0.33	0.21	6.8	6.4	0.55	2.0	0.46	0.002
2025-09-03 255-01320-09			102									
2025-09-05 255-01326-01		1.9						7.6				
2025-09-08 255-01340-01		2.7						7.6				
2025-09-10 255-01347-02	38.9	1.4		35.1	0.48	0.16	6.8	7.2	0.39	0.9	0.43	0.001
2025-09-10 255-01347-03			52									
2025-09-12 255-01351-01		2.0						7.6				
2025-09-15 255-01392-01		2.6						6.8				
2025-09-17 255-01398-02	56.9	1.1		30.8	0.57	0.20	6.9	6.8	2.67	3.6	0.38	0.010
2025-09-17 255-01398-03			44									



Wastewater Performance Summary

2025

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Final Effluent

	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
	mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
2025-09-19 255-01402-01		2.1						6.4				
2025-09-22 255-01427-01		2.4						8.4				
2025-09-24 255-01433-08	58.3	1.8		27.6	0.47	0.22	7.0	10	0.63	2.3	0.57	0.003
2025-09-24 255-01433-09			392*									
2025-09-26 255-01437-01		2.1						8.4				
2025-09-29 255-01477-01		2.7						8.0				
2025-10-01 255-01491-02	44.5	1.7		31.6	0.07	0.17	6.9	7.6	0.12	1.2	0.44	<0.001
2025-10-01 255-01491-03			34									
2025-10-03 255-01495-01		1.4						7.2				
2025-10-06 255-01500-01		1.4						6.0				
2025-10-08 255-01508-02	45.5	1.3		32.1	0.14	0.26	6.8	7.6	0.36	1.9	0.63	0.001
2025-10-08 255-01508-03			112									
2025-10-10 255-01510-01		2.0						6.8				
2025-10-15 255-01534-08	68.0	2.1		26.3	0.29	0.20	6.8	5.6	1.51	2.7	0.49	0.004
2025-10-15 255-01534-09			40									
2025-10-17 255-01542-01		<1.0						13				
2025-10-19 255-01562-01		1.7						7.6				
2025-10-21 255-01569-08	60.6	1.5		25.5	0.26	0.19	7.0	6.4	<0.10	1.4	0.53	<0.001
2025-10-21 255-01569-09			80									
2025-10-23 255-01574-01		1.5						9.6				
2025-10-25 255-01576-01		2.5						8.0				
2025-10-27 255-01620-01		2.8						12				
2025-10-29 255-01629-02	58.7	2.1		24.2	0.08	0.09	6.8	14	<0.10	1.5	0.55	<0.001
2025-10-29 255-01629-03			20									
2025-10-31 255-01631-01		2.3						9.6				
2025-11-03 255-01689-01		1.7						7.2				
2025-11-05 255-01697-02	59.6	1.6		31.2	0.72	0.14	6.9	5.2	0.89	1.5	0.42	0.003
2025-11-07 255-01699-01		1.4						5.0				
2025-11-10 255-01712-01		1.4						4.8				
2025-11-12 255-01718-02	60.2	4.7		31.4	0.32	0.11	6.9	4.4	0.17	1.6	0.35	<0.001
2025-11-14 255-01722-01		<1.0						4.8				
2025-11-17 255-01749-01		1.5						4.8				
2025-11-19 255-01758-08	63.4	2.1		26.1	0.15	0.10	7.0	5.2	0.12	0.8	0.38	<0.001



Wastewater Performance Summary

2025

Regional Municipality of Halton

1135 Lakeshore Rd

Burlington, ON L7S 1A8

Phone: 905-825-6000 x 3030

Halton Regional Laboratory

Mid-Halton WWTP

Final Effluent

	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
	mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
2025-11-21 255-01762-01		<1.0						5.2				
2025-11-24 255-01798-01		1.2						5.6				
2025-11-26 255-01804-08	70.2	<1.0		25.5	0.16	0.12	7.0	5.2	0.20	1.7	0.33	<0.001
2025-11-28 255-01808-01		<1.0						2.8				
2025-12-01 255-01849-01		1.0						5.6				
2025-12-03 255-01854-02	67.9	1.8		24.2	0.11	0.14	7.0	4.4	0.11	1.4	0.37	<0.001
2025-12-05 255-01858-01		<1.0						4.0				
2025-12-08 255-01882-01		1.1						4.8				
2025-12-10 255-01886-02	64.8	<1.0		26.2	0.15	0.11	7.2	8.4	<0.10	1.7	0.36	<0.001
2025-12-12 255-01890-01		<1.0						4.8				
2025-12-15 255-01916-01		2.0						4.8				
2025-12-17 255-01923-08	54.3	1.0		26.7	0.18	0.10	7.1	5.2	<0.10	1.6	0.33	<0.001
2025-12-19 255-01925-01		<1.0						4.4				
2025-12-22 255-01929-02	69.5	<1.0		22.5	0.23	0.34	7.2	5.2	0.37	1.9	0.63	0.002
2025-12-24 255-01934-01		<1.0						5.4				
2025-12-26 255-01936-01		2.5						4.6				
2025-12-29 255-01940-02	68.6	2.9		21.6	0.87	0.13	7.1	5.8	1.22	2.6	0.45	0.004
2025-12-31 255-01944-01		1.8						4.8				
Average	57.3	1.8	35	28.4	0.38	0.19	6.9	6.5	0.63	1.9	0.50	0.002
Minimum	20.6	<1.0	10	20.1	0.06	0.07	6.7	2.8	<0.10	0.8	0.33	<0.001
Maximum	89.4	14	392	35.1	1.22	0.35	7.2	14	5.82	6.6	0.72	0.031
Count	52	157	26	52	52	52	52	157	52	52	52	52



Wastewater Performance Summary

2025

Regional Municipality of Halton

1135 Lakeshore Rd

Burlington, ON L7S 1A8

Phone: 905-825-6000 x 3030

Halton Regional Laboratory

Mid-Halton WWTP

Raw Sewage

Sample Date	Sample ID	Alkalinity	Ortho - Phosphates	Suspended Solids	Total Ammonia Nitrogen	Total BOD	Total Kjeldahl Nitrogen	Total Phosphorus
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2025-01-09	255-00009-01	266	2.04	200	32.9	210	48.3	4.97
2025-01-15	255-00033-01	256	2.15	250	33.6	210	48.5	5.40
2025-01-22	255-00070-01	260	2.17	230	32.0	250	52.5	5.69
2025-01-29	255-00103-01	263	2.58	240	36.6	220	59.0	5.76
2025-02-05	255-00125-01	297	2.46	200	36.0	210	54.6	5.57
2025-02-12	255-00155-01	258	2.62	160	36.7	180	47.8	5.20
2025-02-19	255-00190-01	287	2.36	230	38.5	240	70.8	6.19
2025-02-26	255-00246-01	244	1.55	170	25.3	140	44.3	3.93
2025-03-05	255-00283-01	253	2.24	270	31.8	240	55.4	5.90
2025-03-12	255-00331-01	235	1.06	120	19.4	85	30.5	3.02
2025-03-19	255-00369-01	247	1.19	160	22.2	130	33.9	3.54
2025-03-26	255-00421-01	289	2.04	210	31.7	180	51.4	5.25
2025-04-02	255-00478-01	268	1.68	140	25.3	140	46.2	4.13
2025-04-09	255-00511-01	297	1.68	210	28.2	150	43.9	4.57
2025-04-16	255-00561-01	265	2.22	200	31.7	180	43.0	4.67
2025-04-23	255-00595-01	297	2.49	220	35.9	210	57.5	5.70
2025-04-30	255-00644-01	296	2.90	270	39.9	310	65.1	6.21
2025-05-07	255-00686-01	311	2.48	220	34.9	230	53.0	5.37
2025-05-14	255-00717-01	323	2.86	260	35.1	190	66.0	5.90
2025-05-21	255-00750-01	304	2.83	270	35.1	230	57.7	5.89
2025-05-28	255-00786-01	273	2.30	210	30.6	200	47.2	5.23
2025-06-04	255-00820-01	307	2.51	220	34.2	260	51.0	5.27
2025-06-11	255-00842-01	315	2.51	290	37.9	240	55.7	5.49
2025-06-18	255-00880-01	298	2.60	240	37.2	220	58.5	5.38
2025-06-25	255-00916-01	291	2.57	260	36.4	210	47.0	5.56
2025-07-02	255-00951-01	262	1.83	180	27.3	160	45.7	4.06
2025-07-09	255-00989-01	303	2.49	250	35.3	220	58.2	6.17
2025-07-16	255-01025-01	271	2.30	250	33.9	230	54.1	5.21
2025-07-23	255-01075-01	352	2.59	240	44.0	260	68.3	5.14
2025-07-30	255-01129-01	326	2.67	240	40.6	270	61.3	6.22
2025-08-06	255-01161-01	322	2.44	240	39.6	240	60.0	6.09
2025-08-13	255-01201-01	300	2.20	250	37.0	210	60.4	5.23
2025-08-20	255-01246-01	257	1.91	210	31.5	170	45.5	4.34



Wastewater Performance Summary

2025

Regional Municipality of Halton

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Halton Regional Laboratory

Mid-Halton WWTP

Raw Sewage

	Alkalinity	Ortho - Phosphates	Suspended Solids	Total Ammonia Nitrogen	Total BOD	Total Kjeldahl Nitrogen	Total Phosphorus
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2025-08-27 255-01290-01	282	2.27	240	33.4	190	59.8	5.41
2025-09-03 255-01320-01	329	2.73	230	36.7	220	60.0	6.06
2025-09-10 255-01347-01	339	2.92	210	36.2	180	58.5	5.43
2025-09-17 255-01398-01	286	2.91	250	40.6	210	58.6	6.23
2025-09-24 255-01433-01	292	1.60	230	29.9	170	46.9	4.68
2025-10-01 255-01491-01	307	2.45	240	35.3	210	50.7	5.67
2025-10-08 255-01508-01	322	2.72	300	41.9	200	61.4	6.35
2025-10-15 255-01534-01	362	3.02	290	42.1	250	71.8	10.6
2025-10-22 255-01569-01	325	2.41	250	37.9	210	61.3	5.35
2025-10-29 255-01629-01	328	2.75	220	40.9	230	58.4	6.97
2025-11-05 255-01697-01	297	2.38	240	38.4	230	61.5	5.50
2025-11-12 255-01718-01	313	2.24	210	38.7	230	57.2	5.41
2025-11-19 255-01758-01	285	2.11	220	38.2	190	60.7	5.53
2025-11-26 255-01804-01	326	2.47	270	38.5	240	65.3	6.01
2025-12-03 255-01854-01	300	2.16	240	36.7	200	57.0	5.71
2025-12-10 255-01886-01	302	2.42	250	38.3	200	66.0	6.34
2025-12-17 255-01923-01	286	2.58	250	34.7	240	60.8	6.52
2025-12-22 255-01929-01	296	2.39	200	35.9	180	59.2	5.32
2025-12-29 255-01940-01	247	1.92	180	28.5	200	45.5	4.45
Average	293	2.33	230	34.8	210	55.1	5.50
Minimum	235	1.06	120	19.4	85	30.5	3.02
Maximum	362	3.02	300	44.0	310	71.8	10.6
Count	52	52	52	52	52	52	52

2025 SOUTHEAST WWTP FLOW AND LOADING



INFLUENT

CONCENTRATION		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
BOD ₅	mg/L	250	280	160	170	280	280	310	300	300	230	300	300
TSS	mg/L	340	400	260	230	410	380	410	370	430	290	380	400
TKN	mg/L	47.6	51.4	36.7	40.2	47.0	52.5	51.2	49.1	52.8	44.4	51.5	50.8
TP	mg/L	5.25	6.94	4.54	5.68	5.89	6.17	6.63	6.08	6.92	6.54	6.25	5.89

INFLUENT LOADING

BOD ₅	kg/day	3613.75	3824.52	3255.36	3654.32	4615.52	4432.40	4855.53	4283.70	4675.20	3423.78	4339.80	4763.70
TSS	kg/day	4914.70	5463.60	5289.96	4944.08	6758.44	6015.40	6421.83	5283.23	6701.12	4316.94	5497.08	6351.60
TKN	kg/day	688.06	702.07	746.70	864.14	774.75	831.08	801.95	701.10	822.84	660.94	745.00	806.65
TP	kg/day	75.89	94.79	92.37	122.10	97.09	97.67	103.85	86.82	107.84	97.35	90.41	93.53

EFFLUENT FLOW		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total Effluent	10 ³ m ³	448.090	382.443	630.715	644.867	511.001	474.888	485.564	442.641	467.506	461.481	433.992	492.261
Average Daily ¹	10 ³ m ³	14.455	13.659	20.346	21.496	16.484	15.830	15.663	14.279	15.584	14.886	14.466	15.879
Maximum Daily	10 ³ m ³	36.113	20.130	31.838	55.569	32.897	19.131	30.843	21.717	26.255	17.102	16.650	33.393

EFFLUENT CONCENTRATION

CBOD ₅	mg/L	3.7	4.4	4.3	3.2	2.3	3.1	3.2	3.6	4.0	2.5	3.1	4.8
TSS	mg/L	0.0	7.1	6.4	5.4	6.9	5.8	5.9	8.0	13.0	4.6	5.9	7.8
TAN	mg/L	0.73	1.17	0.63	0.42	0.37	0.45	0.35	2.14	0.91	0.98	0.42	2.48
TP	mg/L	0.55	0.95	0.39	0.60	0.52	0.43	0.41	0.41	0.54	0.42	0.38	0.41
E. Coli	CFU/100ml					14	78	31	81	55	35		

EFFLUENT LOADING

CBOD ₅	kg/day	53.48	60.10	87.49	68.79	37.91	49.07	50.12	51.40	62.34	37.22	44.84	76.22
TSS	kg/day	0.00	96.98	130.21	116.08	113.74	91.81	92.41	114.23	202.59	68.48	85.35	123.86
TAN	kg/day	10.55	15.98	12.82	9.03	6.10	7.12	5.48	30.56	14.18	14.59	6.08	39.38
TP	kg/day	7.95	12.98	7.93	12.90	8.57	6.81	6.42	5.85	8.42	6.25	5.50	6.51

¹ "average daily flow" means the total sewage flow to the sewage works during the periods of operation upon which the report is based, divided by the number of days during the same period of time.

The calculated yearly average loadings may not correspond to the data reported in the Regional Laboratory summary. This discrepancy is due to rounding.

TAN: Total Ammonia Nitrogen



Wastewater Analysis, Monthly Averages

Regional Municipality of Halton

1135 Lakeshore Rd

Burlington, ON L7S 1A8

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Halton Regional Laboratory

S.E.Oakville WWTP, 2025

Final Effluent

Sample Date (Month)	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
	mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
January 2025	60.5	3.7		23.8	0.56	0.11	6.9	7.4	0.73	2.4	0.55	0.001
February 2025	40.9	4.4		26.6	0.45	0.30	6.7	7.1	1.17	2.9	0.95	0.002
March 2025	111	4.3		18.2	0.36	0.14	7.1	6.4	0.63	2.0	0.39	0.002
April 2025	104	3.2		20.6	0.58	0.12	7.0	5.4	0.42	1.9	0.60	0.001
May 2025	75.7	2.3	14	24.1	0.26	0.20	6.9	6.9	0.37	2.1	0.52	0.001
June 2025	69.4	3.1	78	25.7	0.73	0.16	6.5	5.8	0.45	1.9	0.43	<0.001
July 2025	69.3	3.2	31	22.7	0.82	0.17	6.9	5.9	0.35	2.0	0.41	0.001
August 2025	63.4	3.6	81	22.6	0.84	0.14	7.2	8.0	2.14	4.0	0.41	0.022
September 2025	56.7	4.0	55	23.8	0.58	0.15	6.5	13	0.91	2.8	0.54	0.002
October 2025	63.3	2.5	35	24.1	0.72	0.19	6.7	4.6	0.98	2.3	0.42	0.002
November 2025	49.0	3.1		27.2	0.61	0.13	6.8	5.9	0.42	2.2	0.38	0.001
December 2025	60.4	4.8		23.0	0.83	0.14	6.6	7.8	2.48	4.2	0.41	0.002
Annual Average	69.1	3.5	41	23.5	0.62	0.16	6.8	6.9	0.93	2.6	0.50	0.003
Annual Minimum	28.6	<1.0	2	13.4	0.08	0.05	6.3	2.4	<0.10	1.1	0.24	<0.001
Annual Maximum	144	8.6	740	29.9	1.83	0.57	7.5	18	7.64	9.3	2.12	0.039
Annual Count	52	52	26	52	52	52	52	52	52	52	53	52
# Results Outside Limits	0	0	3	0	0	0	0	0	0	0	3	0
Month Average	68.6	3.5	49	23.5	0.61	0.16	6.8	7.0	0.92	2.6	0.50	0.003
% Results Within Limits	100	100	88	100	100	100	100	100	100	100	94	100
Limit	-/-	-/25	-/200	-/-	-/-	-/-	6.0/9.5	-/25	-/-	-/-	-/1	-/-

1. The detail section of this report displays the monthly averages, which are an arithmetic mean with the exception of E.coli, which is a geometric mean.
2. In order to calculate a geometric mean for the E.coli analysis, results of zero are first replaced with one.
3. The **Annual Average** in the summary section represents an average of every result for this facility. This is an annual geometric mean for E.coli.
4. If any result is less than the **Method Detection Limit**, then the detection limit is used in calculating the average. If all results are < MDL, then the average will also be reported as < MDL.
5. The **# Results Outside Limits** and **% Results Within Limits** represent statistics comparing individual results to the ECA limit. It does not necessarily represent non-compliance.



Wastewater Analysis, Monthly Averages

Regional Municipality of Halton

1135 Lakeshore Rd

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Halton Regional Laboratory

S.E.Oakville WWTP, 2025

Raw Sewage

Sample Date (Month)	Alkalinity	Ortho - Phosphates	Suspended Solids	Total Ammonia Nitrogen	Total BOD	Total Kjeldahl Nitrogen	Total Phosphorus
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
January 2025	269	1.78	340	27.1	250	47.6	5.25
February 2025	261	2.96	400	29.4	280	51.4	6.94
March 2025	272	1.60	260	20.2	160	36.7	4.54
April 2025	310	2.96	230	22.8	170	40.2	5.68
May 2025	289	2.08	410	25.3	280	47.0	5.89
June 2025	297	2.49	380	27.9	280	52.5	6.17
July 2025	292	2.57	410	24.1	310	51.2	6.63
August 2025	283	2.31	370	26.6	300	49.1	6.08
September 2025	269	2.79	430	27.4	300	52.8	6.92
October 2025	276	2.50	290	26.1	230	44.4	6.54
November 2025	278	2.72	380	29.0	300	51.5	6.25
December 2025	248	2.21	400	24.6	300	50.8	5.89
Annual Average	279	2.42	360	25.8	260	47.8	6.07
Annual Minimum	220	0.72	60	14.2	100	29.1	3.01
Annual Maximum	336	4.24	810	33.0	500	68.2	9.83
Annual Count	52	52	52	52	52	52	52
# Results Outside Limits	0	0	0	0	0	0	0
Month Average	279	2.41	360	25.9	260	47.9	6.07
% Results Within Limits	100	100	100	100	100	100	100
Limit	-/-	-/-	-/-	-/-	-/-	-/-	-/-

1. The detail section of this report displays the monthly averages, which are an arithmetic mean with the exception of E.coli, which is a geometric mean.
2. In order to calculate a geometric mean for the E.coli analysis, results of zero are first replaced with one.
3. The **Annual Average** in the summary section represents an average of every result for this facility. This is an annual geometric mean for E.coli.
4. If any result is less than the **Method Detection Limit**, then the detection limit is used in calculating the average. If all results are < MDL, then the average will also be reported as < MDL.
5. The **# Results Outside Limits** and **% Results Within Limits** represent statistics comparing individual results to the ECA limit. It does not necessarily represent non-compliance.



Wastewater Performance Summary

2025

Regional Municipality of Halton

1135 Lakeshore Rd

Burlington, ON L7S 1A8

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Halton Regional Laboratory

S.E.Oakville WWTP

Final Effluent

Sample Date	Sample ID	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
		mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
2025-01-08	255-00011-04	82.0	2.9		23.3	0.46	0.14	7.0	4.4	0.21	2.3	0.36	<0.001
2025-01-16	255-00035-04	59.8	4.0		23.3	0.44	0.05	6.9	12	0.29	1.7	0.43	<0.001
2025-01-22	255-00068-02	54.8	3.3		23.7	0.76	0.16	6.7	5.6	1.01	2.8	1.02*	0.001
2025-01-28	255-00101-02	45.4	4.4		24.9	0.59	0.10	6.8	7.6	1.40	2.7	0.37	0.001
2025-02-05	255-00127-02	50.0	7.3		24.5	0.49	0.17	6.6	7.2	0.75	2.8	0.69	<0.001
2025-02-11	255-00151-04	34.5	2.4		25.9	0.33	0.57	6.5	6.8	0.51	1.7	1.92*	<0.001
2025-02-19	255-00192-04	28.6	3.6		29.9	0.47	0.16	7.0	7.2	1.32	3.5	0.54	0.002
2025-02-25	255-00244-02	50.5	4.3		26.0	0.49	0.30	6.7	7.2	2.11	3.7	0.64	0.002
2025-03-05	255-00285-02	70.2	3.6		23.5	0.39	0.08	6.8	7.2	0.37	2.1	0.34	<0.001
2025-03-11	255-00328-04	144	6.9		13.4	0.35	0.13	7.1	4.0	1.44	2.6	0.37	0.004
2025-03-20	255-00371-04	129	2.2		15.8	0.40	0.10	7.3	6.4	0.35	1.9	0.32	0.002
2025-03-25	255-00417-02	102	4.3		19.9	0.28	0.23	7.0	8.0	0.36	1.3	0.53	<0.001
2025-04-02	255-00480-02	115	1.9		16.8	1.12	0.31	7.1	3.2	0.26	1.2	2.12*	<0.001
2025-04-08	255-00506-04	141	4.5		16.9	1.22	0.06	6.9	6.8	1.33	2.4	0.26	0.002
2025-04-10	255-00553-01											0.24	
2025-04-15	255-00559-02	105	2.8		21.3	0.14	0.07	7.1	4.8	0.12	1.5	0.27	<0.001
2025-04-24	255-00599-04	85.5	2.8		23.7	0.11	0.07	7.1	4.8	<0.10	2.0	0.34	<0.001
2025-04-30	255-00646-02	75.8	3.9		24.1	0.31	0.07	6.7	7.6	0.31	2.4	0.35	<0.001
2025-05-07	255-00688-02	76.7	2.6		23.4	0.12	0.36	7.2	6.0	<0.10	1.8	0.68	<0.001
2025-05-07	255-00688-03			10									
2025-05-13	255-00712-04	68.3	2.2		22.7	0.73	0.16	6.8	6.4	1.16	3.4	0.53	0.002
2025-05-13	255-00712-11			12									
2025-05-21	255-00752-04	64.6	1.7		29.1	0.08	0.20	6.7	8.0	<0.10	1.7	0.51	<0.001
2025-05-21	255-00752-11			12									
2025-05-28	255-00788-02	93.1	2.6		21.1	0.11	0.06	6.8	7.2	<0.10	1.6	0.34	<0.001
2025-05-28	255-00788-03			28									
2025-06-04	255-00822-04	86.8	4.8		24.1	0.57	0.14	6.7	8.4	0.36	2.1	0.46	<0.001
2025-06-04	255-00822-11			290*									
2025-06-10	255-00838-02	74.0	2.3		24.7	0.40	0.18	6.7	2.4	<0.10	1.6	0.39	<0.001
2025-06-10	255-00838-03			14									
2025-06-18	255-00882-04	63.6	3.2		27.7	1.09	0.22	6.4	6.8	0.69	2.0	0.51	<0.001
2025-06-18	255-00882-11			28									
2025-06-26	255-00918-02	53.3	2.2		26.4	0.87	0.08	6.3	5.6	0.64	1.9	0.35	<0.001



Wastewater Performance Summary

2025

Regional Municipality of Halton

1135 Lakeshore Rd

Burlington, ON L7S 1A8

Phone: 905-825-6000 x 3030

Halton Regional Laboratory

S.E.Oakville WWTP

Final Effluent

	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
	mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
2025-06-26 25S-00918-03			328*									
2025-07-02 25S-00953-02	87.2	1.9		19.9	0.32	0.31	7.3	6.0	0.15	1.7	0.47	0.001
2025-07-02 25S-00953-03			16									
2025-07-08 25S-00983-02	62.6	1.1		22.9	0.26	0.18	6.7	4.8	0.13	1.9	0.43	<0.001
2025-07-08 25S-00983-03			28									
2025-07-17 25S-01027-04	83.1	7.3		20.7	1.83	0.10	6.9	5.2	0.72	2.2	0.33	0.003
2025-07-17 25S-01027-11			62									
2025-07-23 25S-01077-02	63.3	4.2		25.5	0.75	0.15	6.9	7.2	0.48	2.1	0.42	0.001
2025-07-23 25S-01077-03			30									
2025-07-29 25S-01123-04	50.1	1.5		24.6	0.95	0.12	6.6	6.4	0.27	2.0	0.40	<0.001
2025-07-29 25S-01123-11			32									
2025-08-07 25S-01165-02	72.5	3.6		22.2	1.13	0.18	7.4	8.8	3.69	5.5	0.51	0.039
2025-08-07 25S-01165-03			102									
2025-08-12 25S-01197-04	51.2	3.8		23.0	0.83	0.12	7.3	8.4	2.70	4.2	0.39	0.023
2025-08-12 25S-01197-11			72									
2025-08-20 25S-01248-04	67.4	4.4		21.6	0.87	0.13	7.5	8.4	2.05	4.1	0.40	0.025
2025-08-20 25S-01248-11			118									
2025-08-26 25S-01284-02	62.4	2.7		23.4	0.51	0.14	6.6	6.4	0.12	2.2	0.35	<0.001
2025-08-26 25S-01284-03			50									
2025-09-03 25S-01322-04	57.6	5.8		22.7	0.97	0.15	6.4	14	1.52	3.8	0.52	0.002
2025-09-03 25S-01322-11			740*									
2025-09-10 25S-01349-02	45.3	3.3		27.8	0.47	0.16	6.3	10	0.47	2.3	0.47	<0.001
2025-09-10 25S-01349-03			58									
2025-09-18 25S-01400-04	46.4	1.9		27.0	0.44	0.14	6.5	8.0	0.11	1.7	0.44	<0.001
2025-09-18 25S-01400-11			2									
2025-09-23 25S-01431-02	77.4	5.0		17.7	0.44	0.14	6.6	18	1.54	3.4	0.71	0.003
2025-09-23 25S-01431-03			108									
2025-10-01 25S-01493-04	85.0	3.0		22.1	0.33	0.22	6.9	4.8	0.17	1.5	0.46	<0.001
2025-10-01 25S-01493-11			92									
2025-10-07 25S-01504-02	87.4	4.1		19.6	1.79	0.27	6.6	4.0	2.56	4.3	0.52	0.004
2025-10-07 25S-01504-03			12									
2025-10-15 25S-01536-02	42.2	2.7		26.8	0.71	0.24	6.6	4.0	0.87	2.5	0.48	0.001
2025-10-15 25S-01536-03			84									



Wastewater Performance Summary

2025

Regional Municipality of Halton

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Burlington, ON L7S 1A8

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S.E.Oakville WWTP

Final Effluent

	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
	mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
2025-10-23 25S-01572-02	62.5	1.9		25.4	0.42	0.14	6.8	4.8	0.26	2.2	0.36	<0.001
2025-10-23 25S-01572-03			24									
2025-10-28 25S-01624-04	39.2	<1.0		26.7	0.36	0.07	6.4	5.6	1.06	1.1	0.27	<0.001
2025-10-28 25S-01624-11			22									
2025-11-04 25S-01691-04	43.6	2.5		29.3	0.57	0.14	6.9	4.0	0.17	2.1	0.36	<0.001
2025-11-12 25S-01720-02	47.2	3.0		26.3	0.69	0.10	7.1	6.0	0.30	2.0	0.40	0.001
2025-11-18 25S-01751-04	63.9	4.2		23.3	0.78	0.12	6.6	7.2	0.87	2.7	0.34	<0.001
2025-11-26 25S-01806-02	41.3	2.8		29.9	0.41	0.15	6.7	6.4	0.32	2.1	0.41	<0.001
2025-12-02 25S-01851-04	57.1	4.4		24.4	0.90	0.16	6.5	8.0	0.63	2.3	0.45	<0.001
2025-12-10 25S-01888-02	42.6	3.8		27.4	0.83	0.18	6.9	7.2	1.12	2.5	0.48	0.002
2025-12-16 25S-01920-02	38.0	4.0		27.5	0.75	0.08	6.3	7.2	0.48	3.0	0.32	<0.001
2025-12-22 25S-01932-02	95.5	3.2		16.4	0.94	0.07	6.4	4.4	7.64	9.3	0.25	0.004
2025-12-29 25S-01942-02	69.0	8.6		19.3	0.74	0.22	6.7	12	2.51	4.1	0.56	0.003
Average	69.1	3.5	41	23.5	0.62	0.16	6.8	6.9	0.93	2.6	0.50	0.003
Minimum	28.6	<1.0	2	13.4	0.08	0.05	6.3	2.4	<0.10	1.1	0.24	<0.001
Maximum	144	8.6	740	29.9	1.83	0.57	7.5	18	7.64	9.3	2.12	0.039
Count	52	52	26	52	52	52	52	52	52	52	53	52



Wastewater Performance Summary

2025

Regional Municipality of Halton

1135 Lakeshore Rd

Burlington, ON L7S 1A8

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Halton Regional Laboratory

S.E.Oakville WWTP

Raw Sewage

Sample Date	Sample ID	Alkalinity	Ortho - Phosphates	Suspended Solids	Total Ammonia Nitrogen	Total BOD	Total Kjeldahl Nitrogen	Total Phosphorus
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2025-01-08	255-00011-01	273	2.30	290	28.4	250	49.3	3.63
2025-01-16	255-00035-01	301	2.13	250	28.5	230	48.8	5.68
2025-01-21	255-00068-01	258	1.98	550	28.8	330	52.1	7.80
2025-01-28	255-00101-01	244	0.72	280	22.6	200	40.0	3.88
2025-02-05	255-00127-01	263	2.84	450	26.1	290	49.4	6.02
2025-02-11	255-00151-01	260	4.10	230	30.8	190	38.7	8.12
2025-02-19	255-00192-01	266	2.48	430	33.0	300	68.2	6.80
2025-02-25	255-00244-01	254	2.40	470	27.8	320	49.3	6.81
2025-03-05	255-00285-01	286	2.16	340	27.4	200	41.7	5.34
2025-03-11	255-00328-01	244	1.08	210	14.2	130	29.1	3.75
2025-03-20	255-00371-01	278	1.52	190	18.0	110	38.3	4.01
2025-03-25	255-00417-01	281	1.63	290	21.1	180	37.8	5.07
2025-04-02	255-00480-01	311	4.24	130	20.7	100	35.9	6.98
2025-04-08	255-00506-01	336	3.13	210	19.7	130	32.8	5.70
2025-04-15	255-00559-01	281	3.01	490	25.3	270	46.3	6.53
2025-04-24	255-00599-01	293	1.48	250	24.0	240	45.6	4.76
2025-04-30	255-00646-01	327	2.92	60	24.4	120	40.3	4.42
2025-05-07	255-00688-01	290	2.10	410	26.6	260	45.5	5.30
2025-05-13	255-00712-01	305	2.35	380	28.8	250	52.3	5.92
2025-05-21	255-00752-01	291	2.13	470	24.3	310	52.9	6.70
2025-05-28	255-00788-01	269	1.75	390	21.4	280	37.1	5.63
2025-06-04	255-00822-01	311	2.20	150	24.9	220	47.0	5.43
2025-06-10	255-00838-01	290	2.50	450	27.4	290	54.8	6.28
2025-06-18	255-00882-01	298	2.39	420	27.6	290	54.3	5.99
2025-06-26	255-00918-01	287	2.88	500	31.6	330	53.7	6.98
2025-07-02	255-00953-01	279	3.20	810	22.4	500	66.0	9.83
2025-07-08	255-00983-01	285	1.97	350	24.7	250	43.5	5.64
2025-07-17	255-01027-01	317	3.46	110	27.3	190	38.4	5.15
2025-07-23	255-01077-01	315	3.46	590	29.1	410	64.5	7.55
2025-07-29	255-01123-01	266	0.74	210	16.9	180	43.8	4.98
2025-08-07	255-01165-01	283	2.66	350	28.7	350	51.9	7.20
2025-08-12	255-01197-01	302	2.12	430	26.7	330	54.2	6.28
2025-08-20	255-01248-01	268	2.21	280	24.1	220	39.5	4.98



Wastewater Performance Summary

2025

Regional Municipality of Halton

1135 Lakeshore Rd

Burlington, ON L7S 1A8

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Halton Regional Laboratory

S.E.Oakville WWTP

Raw Sewage

		Alkalinity	Ortho - Phosphates	Suspended Solids	Total Ammonia Nitrogen	Total BOD	Total Kjeldahl Nitrogen	Total Phosphorus
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2025-08-26 255-01284-01		279	2.25	420	26.7	280	50.9	5.86
2025-09-03 255-01322-01		270	3.34	600	25.9	350	53.3	8.72
2025-09-10 255-01349-01		288	2.56	450	30.7	320	63.9	6.82
2025-09-18 255-01400-01		274	2.81	430	29.6	330	55.0	6.70
2025-09-23 255-01431-01		244	2.44	240	23.5	200	39.1	5.43
2025-10-01 255-01493-01		281	1.83	350	23.8	200	36.2	4.75
2025-10-07 255-01504-01		264	2.60	300	26.7	210	42.5	5.96
2025-10-15 255-01536-01		266	2.99	340	26.5	300	55.9	7.28
2025-10-23 255-01572-01		268	1.97	210	22.6	200	37.7	5.15
2025-10-28 255-01624-01		301	3.12	270	30.9	250	49.5	9.54
2025-11-04 255-01691-01		288	2.77	420	31.4	290	53.6	6.19
2025-11-12 255-01720-01		284	2.84	250	25.4	270	43.3	5.98
2025-11-18 255-01751-01		246	2.35	380	26.6	270	49.0	5.37
2025-11-26 255-01806-01		292	2.93	480	32.4	350	59.9	7.46
2025-12-02 255-01851-01		259	1.05	180	20.1	180	33.8	3.01
2025-12-10 255-01888-01		265	2.62	440	27.8	330	59.8	6.67
2025-12-16 255-01920-01		267	2.44	530	25.8	340	61.8	6.47
2025-12-22 255-01932-01		220	2.24	280	27.7	230	45.7	5.54
2025-12-29 255-01942-01		227	2.68	570	21.7	430	53.0	7.77
Average		279	2.42	360	25.8	260	47.8	6.07
Minimum		220	0.72	60	14.2	100	29.1	3.01
Maximum		336	4.24	810	33.0	500	68.2	9.83
Count		52	52	52	52	52	52	52

2025 SOUTHWEST WWTP FLOW AND LOADING



INFLUENT CONCENTRATION		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
BOD ₅	mg/L	190	220	97	150	180	180	180	180	150	180	220	190
TSS	mg/L	200	300	170	220	260	180	210	270	200	220	230	190
TKN	mg/L	38.7	48.8	25.0	32.9	39.2	38.3	38.9	52.7	37.5	38.9	39.8	38.5
TP	mg/L	4.24	6.04	3.02	3.42	4.52	3.90	4.03	5.18	4.01	4.72	4.55	3.97

INFLUENT LOADING		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
BOD ₅	kg/day	3601.45	3990.36	3290.92	4465.50	4564.08	3456.18	2978.64	2839.50	2774.70	2895.12	3709.64	3565.35
TSS	kg/day	3791.00	5441.40	5767.59	6549.40	6592.56	3456.18	3475.08	4259.25	3699.60	3538.48	3878.26	3565.35
TKN	kg/day	733.56	885.13	848.18	979.43	993.96	735.40	643.72	831.34	693.68	625.67	671.11	722.45
TP	kg/day	80.37	109.55	102.46	101.81	114.61	74.88	66.69	81.71	74.18	75.92	76.72	74.50

EFFLUENT FLOW		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total Effluent	10 ³ m ³	587.604	507.861	1051.743	893.095	786.040	576.020	512.989	489.014	554.946	498.599	505.868	581.729
Average Daily ¹	10 ³ m ³	18.955	18.138	33.927	29.770	25.356	19.201	16.548	15.775	18.498	16.084	16.862	18.765
Maximum Daily	10 ³ m ³	34.427	35.763	60.532	97.570	76.116	34.430	22.621	27.862	41.634	25.669	20.649	57.935

EFFLUENT CONCENTRATION		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CBOD ₅	mg/L	2.0	2.4	1.5	2.1	2.0	2.7	2.3	2.8	2.4	1.9	1.8	2.8
TSS	mg/L	5.3	4.9	4.3	4.7	5.7	5.6	7.0	11.0	6.8	5.2	4.8	7.3
TAN	mg/L	0.27	0.27	0.25	0.12	0.10	0.91	0.14	0.22	0.13	0.14	0.10	0.40
TP	mg/L	0.29	0.36	0.17	0.29	0.27	0.41	0.50	0.35	0.24	0.26	0.29	0.32
E. Coli	CFU/100ml					15	92	90	49	35	26		

EFFLUENT LOADING		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
CBOD ₅	kg/day	37.91	43.53	50.89	62.52	50.71	51.84	38.06	44.17	44.40	30.56	30.35	52.54
TSS	kg/day	100.46	88.88	145.89	139.92	144.53	107.53	115.84	173.53	125.79	83.64	80.94	136.98
TAN	kg/day	5.12	4.90	8.48	3.57	2.54	17.47	2.32	3.47	2.40	2.25	1.69	7.51
TP	kg/day	5.50	6.53	5.77	8.63	6.85	7.87	8.27	5.52	4.44	4.18	4.89	6.00

¹ "average daily flow" means the total sewage flow to the sewage works during the periods of operation upon which the report is based, divided by the number of days during the same period of time.

The calculated yearly average loadings may not correspond to the data reported in the Regional Laboratory summary. This discrepancy is due to rounding.

TAN: Total Ammonia Nitrogen



Wastewater Analysis, Monthly Averages

Regional Municipality of Halton

1135 Lakeshore Rd

Burlington, ON L7S 1A8

Phone: 905-825-6000 x 3030

Halton Regional Laboratory

S.W.Oakville WWTP, 2025

Final Effluent

Sample Date (Month)	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
	mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
January 2025	80.6	2.0		23.2	0.02	0.16	7.2	5.3	0.27	1.2	0.29	0.001
February 2025	48.7	2.4		25.9	0.07	0.20	7.1	4.9	0.27	1.4	0.36	0.001
March 2025	138	1.5		15.5	0.03	0.07	7.1	4.3	0.25	1.1	0.17	0.002
April 2025	132	2.1		18.0	0.01	0.18	7.2	4.7	0.12	1.1	0.29	0.001
May 2025	97.9	2.0	15	21.7	0.04	0.15	7.0	5.7	<0.10	1.1	0.27	<0.001
June 2025	96.6	2.7	92	21.7	1.04	0.23	6.7	5.6	0.91	2.3	0.41	0.002
July 2025	79.1	2.3	90	21.6	0.21	0.38	7.2	7.0	0.14	1.8	0.50	0.001
August 2025	61.9	2.8	49	21.8	0.08	0.13	7.1	11	0.22	1.7	0.35	0.002
September 2025	66.9	2.4	35	21.2	0.13	0.10	7.2	6.8	0.13	1.3	0.24	0.001
October 2025	76.3	1.9	26	22.6	0.10	0.37	7.2	5.2	0.14	1.3	0.26	0.001
November 2025	82.2	1.8		21.1	0.07	0.16	7.3	4.8	<0.10	1.2	0.29	<0.001
December 2025	69.9	2.8		21.8	0.09	0.14	7.2	7.3	0.40	1.9	0.32	0.002
Annual Average	86.1	2.2	43	21.3	0.15	0.19	7.1	6.0	0.25	1.5	0.31	0.001
Annual Minimum	44.3	<1.0	2	11.5	<0.01	0.05	6.2	2.8	<0.10	0.8	0.12	<0.001
Annual Maximum	167	6.1	284	27.8	1.46	1.26	7.8	14	2.63	4.1	0.66	0.008
Annual Count	52	52	26	52	52	52	52	52	52	52	52	52
# Results Outside Limits	0	0	1	0	0	0	0	0	0	0	0	0
Month Average	85.8	2.2	51	21.3	0.16	0.19	7.1	6.1	0.25	1.5	0.31	0.001
% Results Within Limits	100	100	96	100	100	100	100	100	100	100	100	100
Limit	-/-	-/25	-/200	-/-	-/-	-/-	6.0/9.5	-/25	-/*	-/-	-/0.8	-/-

* Ammonia Nitrogen Limits are 10 (May - Nov) and 20 (Dec - Apr)

1. The detail section of this report displays the monthly averages, which are an arithmetic mean with the exception of E.coli, which is a geometric mean.
2. In order to calculate a geometric mean for the E.coli analysis, results of zero are first replaced with one.
3. The **Annual Average** in the summary section represents an average of every result for this facility. This is an annual geometric mean for E.coli.
4. If any result is less than the **Method Detection Limit**, then the detection limit is used in calculating the average. If all results are < MDL, then the average will also be reported as < MDL.
5. The **# Results Outside Limits** and **% Results Within Limits** represent statistics comparing individual results to the ECA limit. It does not necessarily represent non-compliance.



Wastewater Analysis, Monthly Averages

Regional Municipality of Halton

1135 Lakeshore Rd

Burlington, ON L7S 1A8

Phone: 905-825-6000 x 3030

Halton Regional Laboratory

S.W.Oakville WWTP, 2025

Raw Sewage

Sample Date (Month)	Alkalinity	Ortho - Phosphates	Suspended Solids	Total Ammonia Nitrogen	Total BOD	Total Kjeldahl Nitrogen	Total Phosphorus
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
January 2025	269	1.66	200	23.7	190	38.7	4.24
February 2025	260	1.83	300	27.1	220	48.8	6.04
March 2025	260	0.69	170	14.7	97	25.0	3.02
April 2025	279	1.01	220	17.0	150	32.9	3.42
May 2025	277	1.51	260	20.7	180	39.2	4.52
June 2025	267	1.61	180	24.5	180	38.3	3.90
July 2025	264	1.64	210	24.2	180	38.9	4.03
August 2025	257	1.79	270	24.6	180	52.7	5.18
September 2025	272	1.60	200	23.5	150	37.5	4.01
October 2025	268	1.72	220	21.5	180	38.9	4.72
November 2025	272	1.76	230	22.1	220	39.8	4.55
December 2025	242	1.60	190	21.5	190	38.5	3.97
Annual Average	265	1.53	220	22.0	180	39.0	4.28
Annual Minimum	176	0.31	38	9.44	32	14.3	1.92
Annual Maximum	293	2.86	440	33.3	330	81.8	7.45
Annual Count	51	51	51	51	51	51	51
# Results Outside Limits	0	0	0	0	0	0	0
Month Average	266	1.54	220	22.1	180	39.1	4.30
% Results Within Limits	100	100	100	100	100	100	100
Limit	-/-	-/-	-/-	-/-	-/-	-/-	-/-

1. The detail section of this report displays the monthly averages, which are an arithmetic mean with the exception of E.coli, which is a geometric mean.
2. In order to calculate a geometric mean for the E.coli analysis, results of zero are first replaced with one.
3. The **Annual Average** in the summary section represents an average of every result for this facility. This is an annual geometric mean for E.coli.
4. If any result is less than the **Method Detection Limit**, then the detection limit is used in calculating the average. If all results are < MDL, then the average will also be reported as < MDL.
5. The **# Results Outside Limits** and **% Results Within Limits** represent statistics comparing individual results to the ECA limit. It does not necessarily represent non-compliance.



Wastewater Performance Summary

2025

Regional Municipality of Halton

1135 Lakeshore Rd

Burlington, ON L7S 1A8

Phone: 905-825-6000 x 3030

Halton Regional Laboratory

S.W.Oakville WWTP

Final Effluent

Sample Date	Sample ID	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
		mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
2025-01-08	255-00012-02	112	2.2		20.5	0.02	0.09	7.6	4.6	<0.10	1.0	0.22	<0.001
2025-01-16	255-00036-04	79.1	1.2		23.9	0.01	0.15	7.1	5.6	<0.10	1.0	0.32	<0.001
2025-01-21	255-00069-04	73.3	2.1		22.8	0.02	0.18	6.8	6.0	0.10	1.2	0.33	<0.001
2025-01-28	255-00102-02	57.9	2.5		25.4	0.02	0.22	7.2	4.8	0.79	1.5	0.29	0.002
2025-02-05	255-00128-04	57.7	3.6		26.1	0.01	0.22	7.3	3.6	<0.10	1.1	0.38	<0.001
2025-02-11	255-00152-02	46.0	1.6		24.1	0.03	0.17	7.5	4.4	<0.10	0.9	0.31	<0.001
2025-02-19	255-00193-02	44.3	1.9		27.8	0.05	0.12	6.5	5.2	<0.10	1.7	0.24	<0.001
2025-02-25	255-00245-04	46.7	2.5		25.6	0.17	0.29	6.9	6.4	0.78	1.8	0.50	0.001
2025-03-05	255-00286-04	91.6	1.5		20.7	0.02	0.08	6.7	4.8	<0.10	1.2	0.21	<0.001
2025-03-11	255-00329-02	159	1.0		11.5	0.04	0.07	6.6	2.8	<0.10	1.0	0.14	<0.001
2025-03-20	255-00372-04	159	<1.0		13.9	0.03	0.05	7.4	4.0	0.20	1.0	0.12	0.001
2025-03-25	255-00418-02	142	2.5		16.0	0.01	0.09	7.8	5.6	0.59	1.2	0.19	0.006
2025-04-02	255-00481-04	161	1.3		13.8	0.02	0.12	7.4	5.2	0.18	1.2	0.23	0.001
2025-04-08	255-00507-02	167	2.5		13.8	0.02	0.07	7.2	3.6	<0.10	0.9	0.14	<0.001
2025-04-15	255-00560-02	136	2.6		17.6	<0.01	0.19	7.3	5.6	<0.10	1.0	0.30	<0.001
2025-04-24	255-00600-04	109	2.2		21.3	<0.01	0.29	7.3	3.6	<0.10	1.1	0.42	<0.001
2025-04-30	255-00647-02	87.0	1.8		23.5	<0.01	0.23	6.9	5.6	<0.10	1.3	0.35	<0.001
2025-05-07	255-00689-04	93.5	1.2		21.5	0.01	0.10	7.2	4.8	<0.10	0.8	0.18	<0.001
2025-05-07	255-00689-05			17									
2025-05-13	255-00713-02	87.5	1.6		23.1	0.01	0.25	7.0	3.2	<0.10	1.2	0.37	<0.001
2025-05-13	255-00713-03			25									
2025-05-21	255-00753-04	88.5	2.7		23.4	0.09	0.14	6.9	8.0	<0.10	1.3	0.33	<0.001
2025-05-21	255-00753-05			2									
2025-05-28	255-00789-02	122	2.3		18.9	0.04	0.09	6.9	6.8	<0.10	1.2	0.20	<0.001
2025-05-28	255-00789-03			66									
2025-06-04	255-00823-02	129	2.1		17.3	1.18	0.10	7.0	5.2	0.82	2.1	0.26	0.002
2025-06-04	255-00823-03			90									
2025-06-10	255-00839-04	110	4.4		19.7	1.46	0.26	6.3	7.2	2.63	4.1	0.51	0.002
2025-06-10	255-00839-05			71									
2025-06-18	255-00883-02	70.5	1.8		26.4	0.30	0.34	6.2	5.6	<0.10	1.8	0.48	<0.001
2025-06-18	255-00883-03			40									
2025-06-26	255-00919-04	76.7	2.4		23.2	1.22	0.23	7.2	4.4	<0.10	1.3	0.38	<0.001
2025-06-26	255-00919-05			284*									



Wastewater Performance Summary

2025

Regional Municipality of Halton

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Burlington, ON L7S 1A8

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Halton Regional Laboratory

S.W.Oakville WWTP

Final Effluent

	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
	mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
2025-07-02 25S-00954-02	90.1	1.9		18.1	0.73	0.15	7.3	4.4	0.25	2.0	0.27	0.002
2025-07-02 25S-00954-03			82									
2025-07-08 25S-00984-04	87.5	2.2		20.7	0.16	0.31	7.1	4.0	0.13	1.8	0.42	<0.001
2025-07-08 25S-00984-05			98									
2025-07-17 25S-01028-02	83.6	3.8		21.7	0.05	0.40	7.5	5.6	<0.10	1.4	0.55	<0.001
2025-07-17 25S-01028-03			60									
2025-07-23 25S-01078-02	68.6	2.1		24.7	0.03	0.52	6.9	7.2	<0.10	1.6	0.66	<0.001
2025-07-23 25S-01078-03			123									
2025-07-29 25S-01124-04	65.5	1.5		22.8	0.06	0.51	7.0	14	<0.10	2.1	0.58	<0.001
2025-07-29 25S-01124-05			97									
2025-08-07 25S-01166-04	50.3	1.8		24.2	0.09	0.15	7.1	13	<0.10	1.7	0.46	<0.001
2025-08-07 25S-01166-05			73									
2025-08-12 25S-01198-04	46.7	3.5		22.9	0.07	0.14	7.1	10	<0.10	1.5	0.38	<0.001
2025-08-12 25S-01198-05			41									
2025-08-20 25S-01249-02	74.3	2.9		20.5	0.13	0.12	7.1	11	0.56	2.1	0.35	0.003
2025-08-20 25S-01249-03			188									
2025-08-26 25S-01285-02	76.1	3.1		19.4	0.03	0.09	7.1	9.6	<0.10	1.6	0.21	<0.001
2025-08-26 25S-01285-03			10									
2025-09-03 25S-01323-02	52.1	2.1		23.3	0.09	0.09	7.1	7.6	0.14	1.3	0.24	<0.001
2025-09-03 25S-01323-03			20									
2025-09-10 25S-01350-04	81.5	1.7		20.7	0.07	0.08	7.0	6.4	<0.10	1.4	0.21	<0.001
2025-09-10 25S-01350-05			30									
2025-09-18 25S-01401-02	56.8	3.0		23.3	0.13	0.12	7.1	7.6	<0.10	1.3	0.29	<0.001
2025-09-18 25S-01401-03			54									
2025-09-23 25S-01432-04	77.1	2.8		17.5	0.21	0.10	7.5	5.6	0.19	1.3	0.23	0.001
2025-09-23 25S-01432-05			46									
2025-10-01 25S-01494-02	86.7	2.2		22.1	0.10	0.10	7.6	4.8	<0.10	1.2	0.20	<0.001
2025-10-01 25S-01494-03			16									
2025-10-07 25S-01505-04	74.5	1.5		23.3	0.08	0.14	7.2	4.4	0.13	1.4	0.24	<0.001
2025-10-07 25S-01505-05			42									
2025-10-15 25S-01537-02	62.1	1.6		25.2	0.07	0.22	6.9	5.6	<0.10	1.5	0.36	<0.001
2025-10-15 25S-01537-03			15									
2025-10-23 25S-01573-02	89.4	2.0		19.0	0.10	1.26	7.2	6.4	<0.10	1.2	0.25	<0.001



Wastewater Performance Summary

2025

Regional Municipality of Halton

1135 Lakeshore Rd

Burlington, ON L7S 1A8

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Halton Regional Laboratory

S.W.Oakville WWTP

Final Effluent

	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
	mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
2025-10-23 25S-01573-03			54									
2025-10-28 25S-01625-04	68.6	2.0		23.3	0.14	0.12	7.1	4.8	0.25	1.3	0.25	0.001
2025-10-28 25S-01625-05			22									
2025-11-04 25S-01692-02	84.9	1.4		24.0	0.05	0.16	7.1	3.2	<0.10	1.3	0.25	<0.001
2025-11-12 25S-01721-04	81.2	1.4		21.0	0.11	0.11	7.5	5.6	<0.10	1.2	0.24	<0.001
2025-11-18 25S-01755-04	97.8	2.4		14.5	0.04	0.12	7.3	5.2	<0.10	0.9	0.25	<0.001
2025-11-26 25S-01807-02	64.9	1.9		25.0	0.06	0.25	7.3	5.2	<0.10	1.4	0.41	<0.001
2025-12-03 25S-01852-02	86.6	2.1		16.8	0.04	0.14	7.1	4.0	<0.10	1.3	0.24	<0.001
2025-12-10 25S-01889-04	61.8	1.4		25.4	0.07	0.16	7.0	6.4	<0.10	1.4	0.34	<0.001
2025-12-16 25S-01921-02	65.4	2.6		23.1	0.08	0.11	7.4	6.4	<0.10	1.7	0.29	<0.001
2025-12-22 25S-01933-02	58.6	1.7		25.0	0.08	0.22	7.2	6.8	<0.10	1.7	0.37	<0.001
2025-12-29 25S-01943-02	77.2	6.1		18.8	0.18	0.08	7.3	13	1.61	3.3	0.34	0.008
Average	86.1	2.2	43	21.3	0.15	0.19	7.1	6.0	0.25	1.5	0.31	0.001
Minimum	44.3	<1.0	2	11.5	<0.01	0.05	6.2	2.8	<0.10	0.8	0.12	<0.001
Maximum	167	6.1	284	27.8	1.46	1.26	7.8	14	2.63	4.1	0.66	0.008
Count	52	52	26	52	52	52	52	52	52	52	52	52



Wastewater Performance Summary

2025

Regional Municipality of Halton

1135 Lakeshore Rd

Burlington, ON L7S 1A8

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Halton Regional Laboratory

S.W.Oakville WWTP

Raw Sewage

Sample Date	Sample ID	Alkalinity	Ortho - Phosphates	Suspended Solids	Total Ammonia Nitrogen	Total BOD	Total Kjeldahl Nitrogen	Total Phosphorus
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2025-01-08	255-00012-01	292	1.50	170	20.9	140	38.0	3.45
2025-01-16	255-00036-01	255	1.62	200	22.4	210	35.7	4.10
2025-01-21	255-00069-01	266	1.37	220	23.9	200	39.2	4.64
2025-01-28	255-00102-01	261	2.15	190	27.6	200	42.0	4.77
2025-02-05	255-00128-01	259	1.22	270	23.5	280	50.4	5.75
2025-02-11	255-00152-01	278	2.45	350	33.3	220	48.6	7.45
2025-02-19	255-00193-01	259	1.80	320	29.5	210	55.1	6.00
2025-02-25	255-00245-01	245	1.83	240	21.9	180	41.2	4.97
2025-03-05	255-00286-01	231	0.85	160	15.4	130	28.9	3.06
2025-03-11	255-00329-01	255	0.52	87	9.44	32	14.3	1.92
2025-03-20	255-00372-01	280	0.89	220	18.6	94	30.8	4.19
2025-03-25	255-00418-01	273	0.51	200	15.4	130	26.1	2.92
2025-04-02	255-00481-01	290	0.40	150	13.7	99	22.4	2.39
2025-04-08	255-00507-01	269	0.47	110	12.0	85	22.7	2.09
2025-04-15	255-00560-01	274	1.40	220	17.4	180	30.4	3.67
2025-04-24	255-00600-01	293	1.18	180	19.3	150	40.8	3.80
2025-04-30	255-00647-01	270	1.58	440	22.6	250	48.0	5.15
2025-05-07	255-00689-01	260	1.23	230	18.3	180	32.9	3.87
2025-05-13	255-00713-01	276	1.47	280	21.5	180	47.8	5.11
2025-05-21	255-00753-01	286	2.30	310	25.5	220	45.9	5.93
2025-05-28	255-00789-01	285	1.04	210	17.4	140	30.1	3.17
2025-06-04	255-00823-01	271	1.03	38	20.7	120	30.5	2.29
2025-06-10	255-00839-01	288	1.75	220	24.3	190	41.3	4.17
2025-06-18	255-00883-01	258	1.92	250	29.2	210	45.9	4.96
2025-06-26	255-00919-01	249	1.72	220	23.8	180	35.4	4.19
2025-07-02	255-00954-01	243	1.63	150	19.7	140	37.3	3.41
2025-07-08	255-00984-01	270	1.46	120	23.9	130	35.2	3.51
2025-07-17	255-01028-01	278	1.47	190	23.7	150	35.8	3.75
2025-07-23	255-01078-01	293	2.50	310	28.9	330	48.6	5.33
2025-07-29	255-01124-01	236	1.13	270	25.0	140	37.8	4.13
2025-08-07	255-01166-01	284	2.30	270	30.2	200	81.8	6.49
2025-08-12	255-01198-01	273	2.86	280	29.8	180	53.3	6.07
2025-08-20	255-01249-01	201	0.31	290	14.5	140	28.9	3.60



Wastewater Performance Summary

2025

Regional Municipality of Halton

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S.W.Oakville WWTP

Raw Sewage

		Alkalinity	Ortho - Phosphates	Suspended Solids	Total Ammonia Nitrogen	Total BOD	Total Kjeldahl Nitrogen	Total Phosphorus
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2025-08-26 255-01285-01		270	1.69	230	23.8	200	46.7	4.57
2025-09-10 255-01350-01		284	1.62	190	25.5	160	37.5	4.06
2025-09-18 255-01401-01		267	2.29	230	28.0	180	46.1	4.96
2025-09-23 255-01432-01		264	0.88	180	16.9	120	29.0	3.01
2025-10-01 255-01494-01		289	1.53	200	21.8	180	32.3	4.14
2025-10-07 255-01505-01		271	1.69	200	23.9	160	37.7	4.54
2025-10-15 255-01537-01		270	2.12	270	19.7	220	48.6	5.12
2025-10-23 255-01573-01		246	1.25	210	18.1	170	36.5	4.25
2025-10-28 255-01625-01		266	2.03	210	23.9	180	39.2	5.53
2025-11-04 255-01692-01		285	1.79	180	23.5	200	40.8	4.60
2025-11-12 255-01721-01		275	1.45	180	20.2	180	30.8	3.72
2025-11-18 255-01755-01		276	2.07	350	22.7	280	45.3	5.60
2025-11-26 255-01807-01		253	1.71	220	21.9	210	42.1	4.26
2025-12-03 255-01852-01		267	1.60	230	22.7	220	40.0	4.23
2025-12-10 255-01889-01		241	1.94	200	26.2	250	44.8	4.26
2025-12-16 255-01921-01		284	2.01	180	23.1	160	42.1	4.28
2025-12-22 255-01933-01		244	1.81	190	24.4	180	41.9	4.26
2025-12-29 255-01943-01		176	0.64	170	11.0	140	23.5	2.82
Average		265	1.53	220	22.0	180	39.0	4.28
Minimum		176	0.31	38	9.44	32	14.3	1.92
Maximum		293	2.86	440	33.3	330	81.8	7.45
Count		51	51	51	51	51	51	51

2025 SKYWAY WWTP FLOW AND LOADING



INFLUENT

CONCENTRATION		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
BOD ₅	mg/L	180	190	93	150	150	200	170	180	120	160	230	180
TSS	mg/L	160	250	100	190	230	240	240	220	180	150	270	200
TKN	mg/L	36.9	37.4	25.6	32.9	31.5	31.2	41.8	39.4	46.6	39.3	44.2	40.6
TP	mg/L	4.34	4.22	2.83	3.75	4.39	4.09	4.32	4.53	3.97	5.39	5.09	4.40

INFLUENT LOADING

BOD ₅	kg/day	15037.02	16032.77	11056.40	16417.95	14633.85	16399.80	13198.46	13503.96	9219.96	11940.32	19269.63	16245.90
TSS	kg/day	13366.24	21095.75	11888.60	20796.07	22438.57	19679.76	18633.12	16504.84	13829.94	11194.05	22620.87	18051.00
TKN	kg/day	3082.59	3155.92	3043.48	3601.00	3073.11	2558.37	3245.27	2955.87	3580.42	2932.84	3703.12	3664.35
TP	kg/day	362.56	356.10	336.45	410.45	428.28	335.38	335.40	339.85	305.03	402.24	426.45	397.12

EFFLUENT FLOW		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Total Effluent	10 ³ m ³	2589.707	2362.715	3685.474	3283.599	3024.327	2459.976	2406.767	2325.684	2304.990	2313.427	2513.435	2797.903
Average Daily ¹	10 ³ m ³	83.539	84.383	118.886	109.453	97.559	81.999	77.638	75.022	76.833	74.627	83.781	90.255
Maximum Daily	10 ³ m ³	124.159	157.117	178.550	196.890	188.258	110.098	91.781	100.925	106.521	93.115	95.145	168.065

EFFLUENT CONCENTRATION

CBOD ₅	mg/L	2.2	8.0	2.1	1.4	1.2	1.5	1.2	1.5	1.7	1.3	1.1	3.9
TSS	mg/L	2.1	8.9	3.9	1.0	1.3	2.5	1.8	2.4	3.2	2.7	2.2	5.2
TAN	mg/L	1.17	8.60	0.43	0.11	0.10	0.65	0.26	0.76	1.04	1.30	1.30	2.67
TP	mg/L	0.08	0.28	0.19	0.06	0.08	0.13	0.11	0.16	0.15	0.15	0.08	0.16
E. Coli	CFU/100ml				0	1	9	1	3	68	6		

EFFLUENT LOADING

CBOD ₅	kg/day	183.79	675.06	249.66	153.23	117.07	123.00	93.17	112.53	130.62	97.02	92.16	351.99
TSS	kg/day	175.43	751.01	463.66	109.45	126.83	205.00	139.75	180.05	245.87	201.49	184.32	469.33
TAN	kg/day	97.74	725.69	51.12	12.04	9.76	53.30	20.19	57.02	79.91	97.02	108.92	240.98
TP	kg/day	6.68	23.63	22.59	6.57	7.80	10.66	8.54	12.00	11.52	11.19	6.70	14.44

¹ "average daily flow" means the total sewage flow to the sewage works during the periods of operation upon which the report is based, divided by the number of days during the same period of time.

The calculated yearly average loadings may not correspond to the data reported in the Regional Laboratory summary. This discrepancy is due to rounding.

TAN: Total Ammonia Nitrogen



Wastewater Analysis, Monthly Averages

Regional Municipality of Halton

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Halton Regional Laboratory

Skyway WWTP, 2025

Final Effluent

Sample Date (Month)	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
	mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
January 2025	25.2	2.2		31.6	1.26	0.03	7.1	2.1	1.17	1.9	0.08	0.005
February 2025	75.9	8.0		9.85	11.6	0.08	7.1	8.9	8.60	9.8	0.28	0.026
March 2025	98.8	2.1		19.9	0.25	0.02	7.2	3.9	0.43	1.7	0.19	0.002
April 2025	71.7	1.4	0	26.2	0.01	0.03	7.0	1.0	0.11	0.9	0.06	<0.001
May 2025	47.8	1.2	1	30.1	0.02	0.05	6.9	1.3	<0.10	0.8	0.08	<0.001
June 2025	28.3	1.5	9	32.3	0.16	0.06	6.9	2.5	0.65	1.4	0.13	0.003
July 2025	20.1	1.2	1	33.1	0.06	0.07	7.1	1.8	0.26	1.0	0.11	0.010
August 2025	9.4	1.5	3	34.9	0.06	0.09	7.0	2.4	0.76	1.8	0.16	0.019
September 2025	8.9	1.7	68	35.2	0.13	0.06	7.7	3.2	1.04	1.7	0.15	0.069
October 2025	12.0	1.3	6	35.7	0.15	0.09	7.2	2.7	1.30	2.2	0.15	0.023
November 2025	8.3	1.1		36.3	0.11	0.04	7.1	2.2	1.30	2.1	0.08	0.008
December 2025	45.1	3.9		20.7	6.08	0.04	7.7	5.2	2.67	4.2	0.16	0.059
Annual Average	37.6	2.2	4	28.8	1.65	0.05	7.2	3.1	1.50	2.4	0.14	0.019
Annual Minimum	<6.0	<1.0	0	6.80	<0.01	<0.02	6.3	<1.0	<0.10	0.5	0.04	<0.001
Annual Maximum	135	15	8500	39.7	15.5	0.18	8.9	43	11.4	11.4	0.64	0.180
Annual Count	52	159	32	52	52	52	54	159	54	53	60	54
# Results Outside Limits	0	2	1	0	0	0	0	6	6	0	9	0
Month Average	37.6	2.3	13	28.8	1.66	0.06	7.2	3.1	1.53	2.5	0.14	0.019
% Results Within Limits	100	99	97	100	100	100	100	96	89	100	85	100
Limit	-/-	-/10	-/200	-/-	-/-	-/-	6.0/9.5	-/10	-/*	-/-	-/0.2	-/-

* Ammonia Nitrogen Limits are 2.0 (May - Nov) and 4.0 (Dec - Apr)

1. The detail section of this report displays the monthly averages, which are an arithmetic mean with the exception of E.coli, which is a geometric mean.
2. In order to calculate a geometric mean for the E.coli analysis, results of zero are first replaced with one.
3. The **Annual Average** in the summary section represents an average of every result for this facility. This is an annual geometric mean for E.coli.
4. If any result is less than the **Method Detection Limit**, then the detection limit is used in calculating the average. If all results are < MDL, then the average will also be reported as < MDL.
5. The **# Results Outside Limits** and **% Results Within Limits** represent statistics comparing individual results to the ECA limit. It does not necessarily represent non-compliance.



Wastewater Analysis, Monthly Averages

Regional Municipality of Halton

1135 Lakeshore Rd

Burlington, ON L7S 1A8

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Halton Regional Laboratory

Skyway WWTP, 2025

Raw Sewage

Sample Date (Month)	Alkalinity	Ortho - Phosphates	Suspended Solids	Total Ammonia Nitrogen	Total BOD	Total Kjeldahl Nitrogen	Total Phosphorus
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
January 2025	231	1.93	160	22.5	180	36.9	4.34
February 2025	217	1.72	250	20.6	190	37.4	4.22
March 2025	243	1.37	100	14.2	93	25.6	2.83
April 2025	251	1.41	190	16.3	150	32.9	3.75
May 2025	256	1.61	230	17.0	150	31.5	4.39
June 2025	226	1.78	240	16.9	200	31.2	4.09
July 2025	217	1.99	240	18.6	170	41.8	4.32
August 2025	219	1.80	220	18.6	180	39.4	4.53
September 2025	223	1.81	180	21.2	120	46.6	3.97
October 2025	251	2.18	150	25.1	160	39.3	5.39
November 2025	235	2.33	270	24.2	230	44.2	5.09
December 2025	238	2.13	200	23.1	180	40.6	4.42
Annual Average	234	1.85	200	19.9	170	37.4	4.29
Annual Minimum	189	0.77	29	10.3	23	16.3	0.96
Annual Maximum	269	2.74	310	29.2	290	78.7	9.14
Annual Count	52	52	52	52	52	52	52
# Results Outside Limits	0	0	0	0	0	0	0
Month Average	234	1.84	200	19.9	170	37.3	4.28
% Results Within Limits	100	100	100	100	100	100	100
Limit	-/-	-/-	-/-	-/-	-/-	-/-	-/-

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Wastewater Performance Summary

2025

Regional Municipality of Halton

1135 Lakeshore Rd

Burlington, ON L7S 1A8

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Halton Regional Laboratory

Skyway WWTP

Final Effluent

Sample Date	Sample ID	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
		mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
2025-01-01	255-00002-01		2.3						1.4				
2025-01-03	255-00004-01		2.2						1.4				
2025-01-06	255-00006-01		2.1						<1.0				
2025-01-08	255-00010-02	44.7	<1.0		29.8	0.53	<0.02	6.9	1.2	0.55	1.8	0.04	0.001
2025-01-10	255-00014-01		<1.0						1.4				
2025-01-13	255-00030-01		1.8						1.4				
2025-01-15	255-00034-02	21.7	<1.0		32.2	0.75	<0.02	7.4	1.4	1.36	1.7	0.06	0.009
2025-01-17	255-00038-01		1.1						2.0				
2025-01-20	255-00067-01		1.7						2.2				
2025-01-22	255-00071-05	19.8	1.4		33.2	0.34	<0.02	7.0	2.0	0.63	1.0	0.08	0.001
2025-01-24	255-00075-01		1.6						2.0				
2025-01-27	255-00098-01		3.9						2.8				
2025-01-29	255-00104-05	14.6	3.7		31.0	3.43	0.04	7.1	4.4	2.14	3.2	0.15	0.007
2025-01-31	255-00106-01		6.0						4.6				
2025-02-03	255-00122-01		11*						6.0				
2025-02-05	255-00126-02	48.3	15*		13.9	13.5	0.08	7.0	8.2	6.99*	7.9	0.27*	0.018
2025-02-07	255-00130-01		9.6						4.6				
2025-02-10	255-00150-01		7.0						5.2				
2025-02-12	255-00156-02	82.6	9.5		7.77	13.6	0.07	7.2	6.8	11.4*	10.7	0.31*	0.042
2025-02-14	255-00158-01		9.6						4.4				
2025-02-17	255-00189-01		7.0						3.6				
2025-02-19	255-00191-05	83.5	3.6		8.78	15.5	0.09	7.1	3.8	9.06*	11.4	0.21*	0.025
2025-02-21	255-00197-01		4.4						2.4				
2025-02-24	255-00241-01		6.6						4.2				
2025-02-26	255-00247-05	89.3	4.2		8.94	3.64	0.06	7.1	15*	6.93*	9.0	0.32*	0.019
2025-02-28	255-00249-01		8.2						43*				
2025-03-01	255-00303-01		9.6					7.2	33*	1.23	3.8	0.64*	0.004
2025-03-03	255-00279-01		6.2						2.6				
2025-03-05	255-00284-02	64.6	<1.0		22.5	0.84	0.02	7.2	2.4	<0.10	1.1	0.08	<0.001
2025-03-07	255-00289-01		<1.0						5.0				
2025-03-10	255-00327-01		<1.0						1.4				
2025-03-12	255-00332-02	135	<1.0		15.3	0.12	0.03	7.4	1.2	0.43	1.3	0.08	0.002
2025-03-14	255-00336-01		1.4						1.8				



Wastewater Performance Summary

2025

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Skyway WWTP

Final Effluent

	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
	mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
2025-03-17 25S-00366-01		1.3						1.2				
2025-03-19 25S-00370-05	127	<1.0		16.3	0.03	0.02	7.2	1.2	0.29	1.1	0.11	0.001
2025-03-21 25S-00374-01		1.5						1.0				
2025-03-24 25S-00416-01		1.6						1.0				
2025-03-26 25S-00422-05	68.6	1.3		25.3	<0.01	0.02	7.1	1.0	<0.10	1.1	0.05	<0.001
2025-03-28 25S-00424-01		<1.0						<1.0				
2025-03-31 25S-00461-01		<1.0						1.0				
2025-04-02 25S-00479-02	82.6	1.4		22.0	<0.01	<0.02	6.7	<1.0	<0.10	1.0	0.06	<0.001
2025-04-02 25S-00479-04			0									
2025-04-04 25S-00483-01		<1.0						<1.0				
2025-04-07 25S-00505-01		1.8						<1.0				
2025-04-09 25S-00512-02	111	<1.0		22.1	0.01	0.03	7.2	<1.0	<0.10	0.8	0.05	<0.001
2025-04-09 25S-00512-04			0									
2025-04-11 25S-00514-01		<1.0						<1.0				
2025-04-14 25S-00556-01		2.1						1.0				
2025-04-16 25S-00562-05	72.9	<1.0		25.0	<0.01	<0.02	7.2	1.0	<0.10	0.8	0.05	<0.001
2025-04-16 25S-00562-09			0									
2025-04-18 25S-00564-01		<1.0						1.2				
2025-04-21 25S-00593-01		1.5						1.0				
2025-04-23 25S-00596-02	57.9	1.2		28.0	<0.01	0.03	7.1	1.2	<0.10	1.2	0.06	<0.001
2025-04-23 25S-00596-03			0									
2025-04-25 25S-00602-01		<1.0						1.0				
2025-04-28 25S-00641-01		2.5						<1.0				
2025-04-30 25S-00645-05	33.9	1.6		33.8	0.03	0.07	6.7	<1.0	0.14	0.7	0.10	<0.001
2025-04-30 25S-00645-09			0									
2025-05-02 25S-00680-01		1.7						1.6				
2025-05-05 25S-00682-01		1.3						<1.0				
2025-05-07 25S-00687-02	46.2	1.2		28.7	0.01	0.04	6.8	1.2	<0.10	0.5	0.06	<0.001
2025-05-07 25S-00687-04			1									
2025-05-09 25S-00691-01		1.3						<1.0				
2025-05-12 25S-00711-01		1.1						<1.0				
2025-05-14 25S-00718-02	34.6	<1.0		32.6	0.02	0.05	6.8	1.2	<0.10	0.6	0.08	<0.001
2025-05-14 25S-00718-04			0									



Wastewater Performance Summary

2025

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Final Effluent

	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
	mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
2025-05-16 25S-00720-01		<1.0						1.4				
2025-05-19 25S-00748-01		<1.0						1.2				
2025-05-21 25S-00751-05	38.5	<1.0		31.9	0.02	0.05	6.8	1.8	<0.10	1.1	0.10	<0.001
2025-05-21 25S-00751-09			0									
2025-05-23 25S-00757-01		<1.0						1.6				
2025-05-26 25S-00781-01		1.7						1.4				
2025-05-28 25S-00787-05	71.8	<1.0		27.1	0.03	0.04	7.1	<1.0	<0.10	1.0	0.07	<0.001
2025-05-28 25S-00787-09			0									
2025-05-30 25S-00791-01		1.7						<1.0				
2025-06-02 25S-00815-01		1.2						1.4				
2025-06-04 25S-00821-02	40.1	1.1		32.0	0.02	0.04	7.0	1.8	<0.10	0.6	0.08	<0.001
2025-06-04 25S-00821-04			3									
2025-06-06 25S-00825-01		<1.0						2.0				
2025-06-09 25S-00835-01		1.3						1.8				
2025-06-11 25S-00843-02	44.3	1.6		29.4	0.09	0.06	6.8	3.0	0.35	1.6	0.12	<0.001
2025-06-11 25S-00843-04			3									
2025-06-13 25S-00845-01		1.8						3.0				
2025-06-16 25S-00877-01		1.5						2.4				
2025-06-18 25S-00881-05	7.2	1.9		36.6	0.17	0.06	7.2	5.0	1.37	2.6	0.17	0.008
2025-06-18 25S-00881-09			12									
2025-06-20 25S-00887-01		1.7						3.6				
2025-06-23 25S-00911-01		2.4						1.6				
2025-06-25 25S-00917-05	21.6	<1.0		31.1	0.35	0.08	6.5	2.2	0.79	0.8	0.16	<0.001
2025-06-25 25S-00917-09			51									
2025-06-27 25S-00921-01		1.2						2.8				
2025-06-29 25S-00977-01											0.12	
2025-06-30 25S-00950-01		1.5						1.4			0.10	
2025-07-02 25S-00952-05	38.8	1.4		29.1	0.02	0.05	6.6	1.6	<0.10	1.1	0.10	<0.001
2025-07-02 25S-00952-09			0									
2025-07-04 25S-00960-01		1.7						1.8				
2025-07-07 25S-00982-01		<1.0						1.6				
2025-07-09 25S-00990-02	13.6	<1.0		34.7	0.14	0.08	8.6	1.4	0.33	1.0	0.11	0.045
2025-07-09 25S-00990-04			0									



Wastewater Performance Summary

2025

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Final Effluent

	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
	mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
2025-07-11 25S-00992-01		<1.0						1.6				
2025-07-14 25S-01020-01		1.6						1.8				
2025-07-16 25S-01026-02	30.6	<1.0		31.7	0.04	0.06	7.0	1.2	<0.10	0.8	0.11	<0.001
2025-07-16 25S-01026-04			1									
2025-07-18 25S-01030-01		<1.0						1.4				
2025-07-21 25S-01070-01		<1.0						1.4				
2025-07-23 25S-01076-05	9.1	<1.0		37.5	0.09	0.07	6.4	1.8	0.32	0.8	0.11	<0.001
2025-07-23 25S-01076-09			0									
2025-07-25 25S-01080-01		1.5						2.8				
2025-07-28 25S-01122-01		1.0						2.0				
2025-07-30 25S-01130-02	8.6	<1.0		32.6	0.03	0.07	6.7	2.8	0.45	1.4	0.13	0.001
2025-07-30 25S-01130-03			4									
2025-08-01 25S-01132-01		1.3						1.6				
2025-08-04 25S-01158-01		2.4						2.0				
2025-08-06 25S-01162-05	8.7	2.0		32.5	0.01	0.07	6.4	2.6	<0.10	1.1	0.13	<0.001
2025-08-06 25S-01162-09			0									
2025-08-08 25S-01168-01		1.5						3.4				
2025-08-11 25S-01194-01		1.2						3.2				
2025-08-13 25S-01202-02	7.1	2.1		36.7	0.10	0.08	7.9	3.4	1.90	3.3	0.17	0.072
2025-08-13 25S-01202-04			25									
2025-08-15 25S-01204-01		2.3						3.4				
2025-08-18 25S-01241-01		1.2						2.4				
2025-08-20 25S-01247-02	6.3	<1.0		36.7	0.09	0.09	6.3	2.2	0.92	1.9	0.16	<0.001
2025-08-20 25S-01247-04			4									
2025-08-22 25S-01251-01		1.0						1.8				
2025-08-25 25S-01283-01		1.0						2.0				
2025-08-27 25S-01291-05	15.6	<1.0		33.5	0.04	0.12	7.3	1.6	0.12	1.0	0.17	0.001
2025-08-27 25S-01291-09			0									
2025-08-29 25S-01293-01		<1.0						1.6				
2025-09-01 25S-01317-01		<1.0						1.8				
2025-09-03 25S-01321-05	7.8	2.3		33.8	0.09	0.06	8.4	2.0	1.13	1.2	0.13	0.117
2025-09-03 25S-01321-09			21									
2025-09-05 25S-01327-01		1.8						4.2				



Wastewater Performance Summary

2025

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Skyway WWTP

Final Effluent

	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
	mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
2025-09-08 25S-01341-01		1.5						2.6				
2025-09-10 25S-01348-02	<6.0	1.4		37.4	0.13	0.06	8.6	3.2	1.06	1.6	0.14	0.153
2025-09-10 25S-01348-04			25									
2025-09-12 25S-01352-01		1.5						3.6				
2025-09-15 25S-01393-01		2.0						2.6				
2025-09-17 25S-01399-02	8.6	2.2		36.4	0.16	0.05	6.6	3.6	1.70	2.7	0.11	0.003
2025-09-17 25S-01399-04			65									
2025-09-19 25S-01403-01		1.7						3.4				
2025-09-22 25S-01428-01		1.7						4.2				
2025-09-24 25S-01434-05	13.2	1.6		33.2	0.15	0.06	7.2	5.6	0.26	1.1	0.23*	0.002
2025-09-24 25S-01434-09			8500*									
2025-09-26 25S-01438-01		1.8						3.4				
2025-09-29 25S-01478-01		1.5						1.8				
2025-09-29 25S-01489-01			5									
2025-10-01 25S-01492-02	13.5	2.0		38.1	0.04	0.18	7.0	3.8	0.29	1.2	0.26*	0.001
2025-10-01 25S-01492-04			45									
2025-10-03 25S-01496-01		<1.0						2.6				
2025-10-06 25S-01501-01		1.0						2.8				
2025-10-08 25S-01509-02	9.7	<1.0		36.2	0.13	0.12	7.8	2.2	0.29	0.6	0.19	0.008
2025-10-08 25S-01509-04			4									
2025-10-10 25S-01511-01		1.5						2.4				
2025-10-13 25S-01530-01		1.3						2.8				
2025-10-15 25S-01535-05	9.8	1.4		34.1	0.15	0.06	6.5	3.2	2.15	3.6	0.18	0.003
2025-10-15 25S-01535-09			0									
2025-10-17 25S-01543-01		1.7						4.6				
2025-10-20 25S-01563-01		2.2						3.2				
2025-10-22 25S-01570-05	20.8	<1.0		32.4	0.29	0.05	8.1	2.6	1.90	3.0	0.14	0.097
2025-10-22 25S-01570-09			31									
2025-10-24 25S-01575-01		<1.0						2.2				
2025-10-24 25S-01657-01											0.10	
2025-10-25 25S-01663-01											0.12	
2025-10-26 25S-01664-01											0.12	
2025-10-27 25S-01621-01		1.6						1.6				



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Final Effluent

	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
	mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
2025-10-27 25S-01665-01											0.11	
2025-10-29 25S-01630-02	6.3	<1.0		37.6	0.16	0.05	6.8	2.4	1.85	2.4	0.11	0.004
2025-10-29 25S-01630-03			2									
2025-10-31 25S-01632-01		1.1						1.8				
2025-11-03 25S-01690-01		<1.0						2.0				
2025-11-05 25S-01698-02	8.4	<1.0		39.5	0.19	0.06	6.9	2.0	0.81	1.4	0.10	0.002
2025-11-07 25S-01700-01		<1.0						1.8				
2025-11-10 25S-01713-01		1.6						3.4				
2025-11-12 25S-01719-02	8.2	<1.0		33.0	0.09	0.04	7.4	1.6	0.30	0.9	0.07	0.003
2025-11-14 25S-01723-01		<1.0						1.6				
2025-11-17 25S-01750-01		<1.0						2.0				
2025-11-19 25S-01759-05	9.5	<1.0		32.9	0.05	<0.02	6.7	2.4	0.38	1.4	0.07	<0.001
2025-11-21 25S-01763-01		<1.0						1.8				
2025-11-24 25S-01799-01		1.1						2.8				
2025-11-26 25S-01805-05	6.9	<1.0		39.7	0.12	0.02	7.3	2.6	3.72	4.8	0.09	0.025
2025-11-28 25S-01809-01		<1.0						2.4				
2025-12-01 25S-01850-01		<1.0						1.6				
2025-12-03 25S-01855-02	7.7	1.8		32.8	0.05	0.03	8.1	1.6	0.38	1.0	0.07	0.015
2025-12-05 25S-01859-01		<1.0						2.4				
2025-12-08 25S-01883-01		1.4						2.8				
2025-12-10 25S-01887-02	8.4	<1.0		34.7	0.33	0.02	8.9	2.8	0.95	1.2	0.10	0.180
2025-12-12 25S-01891-01		3.3						12*				
2025-12-13 25S-01946-01		5.6					7.0	13*	0.37		0.30*	0.001
2025-12-15 25S-01917-01		2.0						2.4				
2025-12-17 25S-01924-05	46.3	5.2		19.1	8.91	0.03	8.0	3.2	4.55*	6.1	0.13	0.131
2025-12-19 25S-01926-01		7.0						4.0				
2025-12-22 25S-01931-02	73.0	4.5		9.95	10.4	0.07	7.4	5.8	3.05	5.0	0.21*	0.019
2025-12-24 25S-01935-01		5.3						5.2				
2025-12-26 25S-01937-01		8.9						13*				
2025-12-29 25S-01941-02	89.9	5.4		6.80	10.7	0.03	6.7	4.0	6.73*	7.9	0.15	0.008
2025-12-31 25S-01945-01		4.8						3.6				
Average	37.6	2.2	4	28.8	1.65	0.05	7.2	3.1	1.50	2.4	0.14	0.019
Minimum	<6.0	<1.0	0	6.80	<0.01	<0.02	6.3	<1.0	<0.10	0.5	0.04	<0.001



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2025

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Final Effluent

	Alkalinity	Carbonaceous BOD	E.Coli	Nitrate Nitrogen	Nitrite Nitrogen	Ortho - Phosphates	pH (Field Result)	Suspended Solids	Total Ammonia Nitrogen	Total Kjeldahl Nitrogen	Total Phosphorus	Unionized Ammonia (ECA)
	mg/L	mg/L	CFU/100mL	mg/L	mg/L	mg/L	-	mg/L	mg/L	mg/L	mg/L	mg/L
Maximum	135	15	8500	39.7	15.5	0.18	8.9	43	11.4	11.4	0.64	0.180
Count	52	159	32	52	52	52	54	159	54	53	60	54



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Raw Sewage

Sample Date	Sample ID	Alkalinity	Ortho - Phosphates	Suspended Solids	Total Ammonia Nitrogen	Total BOD	Total Kjeldahl Nitrogen	Total Phosphorus
		mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2025-01-08	255-00010-01	249	1.82	98	21.9	130	36.3	3.63
2025-01-15	255-00034-01	218	1.73	200	24.2	190	37.1	4.64
2025-01-22	255-00071-01	224	1.91	250	20.9	260	38.8	4.92
2025-01-29	255-00104-01	234	2.27	110	23.1	130	35.5	4.18
2025-02-05	255-00126-01	225	2.10	250	23.0	190	32.7	4.68
2025-02-12	255-00156-01	228	1.86	220	23.4	200	49.1	4.41
2025-02-19	255-00191-01	217	1.80	270	23.7	240	43.9	5.06
2025-02-26	255-00247-01	196	1.10	240	12.2	130	23.8	2.73
2025-03-05	255-00284-01	237	1.59	170	16.6	170	31.8	3.96
2025-03-12	255-00332-01	239	0.77	29	10.3	23	16.3	0.96
2025-03-19	255-00370-01	242	0.95	73	11.9	50	18.6	2.20
2025-03-26	255-00422-01	253	2.15	140	17.9	130	35.6	4.21
2025-04-02	255-00479-01	251	0.85	150	13.1	130	28.1	2.92
2025-04-09	255-00512-01	268	1.45	200	16.5	120	31.7	3.37
2025-04-16	255-00562-01	232	1.38	220	14.9	120	29.4	3.84
2025-04-23	255-00596-01	257	1.42	190	18.5	150	34.6	4.00
2025-04-30	255-00645-01	248	1.97	210	18.5	210	40.9	4.60
2025-05-07	255-00687-01	264	1.37	250	15.6	130	29.6	3.90
2025-05-14	255-00718-01	251	1.45	280	17.5	160	35.6	4.67
2025-05-21	255-00751-01	268	2.31	240	19.8	180	37.2	5.79
2025-05-28	255-00787-01	242	1.32	160	15.1	140	23.6	3.18
2025-06-04	255-00821-01	213	1.61	190	15.4	180	29.2	3.69
2025-06-11	255-00843-01	250	1.70	280	18.2	200	33.9	4.11
2025-06-18	255-00881-01	229	1.87	300	18.0	280	32.9	4.40
2025-06-25	255-00917-01	211	1.92	190	16.0	130	28.8	4.15
2025-07-02	255-00952-01	206	1.82	240	15.8	170	33.9	4.37
2025-07-09	255-00990-01	206	1.96	310	16.5	150	68.0	4.83
2025-07-17	255-01026-01	232	1.77	170	18.5	110	29.5	3.59
2025-07-23	255-01076-01	220	2.35	210	21.1	210	39.9	4.13
2025-07-30	255-01130-01	219	2.03	290	21.1	200	37.8	4.67
2025-08-06	255-01162-01	222	1.96	220	19.3	200	38.2	4.92
2025-08-13	255-01202-01	208	1.84	140	19.9	140	37.5	3.82
2025-08-20	255-01247-01	225	1.68	250	16.0	150	30.4	4.44



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Raw Sewage

	Alkalinity	Ortho - Phosphates	Suspended Solids	Total Ammonia Nitrogen	Total BOD	Total Kjeldahl Nitrogen	Total Phosphorus
	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
2025-08-27 25S-01291-01	220	1.72	270	19.3	210	51.3	4.95
2025-09-03 25S-01321-01	210	1.71	50	18.2	83	78.7	3.17
2025-09-10 25S-01348-01	236	1.75	270	21.2	180	36.8	4.67
2025-09-17 25S-01399-01	220	2.22	280	25.7	160	39.6	4.81
2025-09-24 25S-01434-01	224	1.55	100	19.6	39	31.2	3.23
2025-10-01 25S-01492-01	259	2.12	180	24.2	150	35.3	4.07
2025-10-08 25S-01509-01	261	2.05	100	24.8	110	36.5	9.14
2025-10-15 25S-01535-01	228	2.46	70	26.0	210	40.6	4.58
2025-10-22 25S-01570-01	269	1.82	140	25.8	140	39.7	3.82
2025-10-29 25S-01630-01	239	2.47	260	24.5	200	44.5	5.35
2025-11-05 25S-01698-01	227	2.65	280	24.2	200	39.7	5.21
2025-11-12 25S-01719-01	226	2.10	240	21.9	210	39.2	4.56
2025-11-19 25S-01759-01	224	1.92	250	21.6	200	43.2	4.56
2025-11-26 25S-01805-01	264	2.65	290	29.0	290	54.5	6.02
2025-12-03 25S-01855-01	257	1.72	250	22.6	220	41.9	4.35
2025-12-10 25S-01887-01	256	2.74	180	29.2	210	47.3	4.74
2025-12-17 25S-01924-01	235	2.31	230	24.5	180	46.0	4.07
2025-12-22 25S-01931-01	251	2.40	170	24.9	150	41.3	4.83
2025-12-29 25S-01941-01	189	1.50	190	14.3	150	26.5	4.11
Average	234	1.85	200	19.9	170	37.4	4.29
Minimum	189	0.77	29	10.3	23	16.3	0.96
Maximum	269	2.74	310	29.2	290	78.7	9.14
Count	52	52	52	52	52	52	52