Wastewater Collection Systems

Performance Report 2025

Contents

1.0 Introduction

Halton Region is committed to providing reliable wastewater collection and treatment for more than 655,000 residents in Burlington, Halton Hills, Milton and Oakville. The Consolidated Linear Infrastructure Environmental Compliance Approval (CLI ECA) issued by the Ministry of the Environment, Conservation and Parks (MECP) governs the operation of Halton Region's wastewater (sanitary sewage) collection system. Compliance with regulatory requirements, policies and the permit conditions of the CLI ECA continues to be monitored through the supervisory controls and data acquisition (SCADA) systems, oversight by licensed operations staff, an accredited laboratory, and regular reporting mechanisms.

2.0 Collection System Overview

Halton Region's wastewater collection system (WWCS) is comprised of works for the collection and transmission of wastewater, and consists of trunk and local sewers, wastewater pumping stations, forcemains and one in-line storage tank. There are 2,040 km of sewers, which include a combination of gravity sewers (1,967.38 km), forcemains (72.54 km), inline storage (0.41 km), and siphons (0.29 km). There are 84 wastewater pumping stations (see *Appendix A* for the list of the stations) and approximately 31,974 maintenance holes. The in-line storage tank is in the Burlington collection system and is comprised of a 3.0 m diameter trunk sewer that is 166 m long and has a vortex flow regulator designed for a peak flow rate of 50 L/s. Refer to *Appendix B* containing an overview map of Halton Region's wastewater collection system.

3.0 Legislated Requirements

The Ontario Water Resource Act governs wastewater collection systems and wastewater treatment plants (WWTP). The owner/operator of each wastewater collection system is required to comply with all the requirements and conditions in the Environmental Compliance Approvals. The CLI ECA for the municipal wastewater works serving Halton Region for the collection and transmission of wastewater include the works servicing the Mid-Halton WWTP, Georgetown WWTP, Burlington-Skyway WWTP, Oakville Southeast WWTP, Oakville Southwest WWTP and Acton WWTP. The annual performance report for the wastewater collection systems is submitted to the MECP within 90 days following the end of the period being reported upon. The performance summary is for the period from January 1, 2025, to December 31, 2025, which gives Halton Region a reporting due date of March 31st of the subsequent year.

The following table (Table 3.1) shows the sections of this report that address the specific annual reporting requirements stipulated in Halton Region's WWCS CLI ECA, No. 004-W601.

Table 3.1 – CLI ECA Specific Requirements for Annual Reporting and Corresponding Sections

WWCS Performance Report Sections	Halton Region WWCS ECA No. 004-W601 *Schedule E, Section 4.6*
4.0 Wastewater Collection System Monitoring Programs	4.6.3
5.0 Operational Challenges & Action Taken	4.6.4 & 4.6.7
6.0 Calibration, Maintenance & Repairs	4.6.5 & 4.6.6
7.0 Modification to Wastewater Collection System	4.6.8
8.0 Discharge Events	4.6.9

4.0 Wastewater Collection System Monitoring Programs

4.1 Regional Flow Monitoring Program

Halton Region has approximately 98 flow monitors deployed in strategic locations throughout the collection system, of these, 41 are located at pumping station facilities. All the flow monitors measure both depth and velocity, from which they derive the flow values, and the trends and data are available on the vendor's web site. Additionally, there are 35 level sensors, 3 sewer cameras and 2 H_2S sensors in operation throughout Halton's sanitary system.

Flow monitoring data provides critical insight into how the wastewater collection system performs under dry and wet weather conditions. This data is used to calibrate the dynamic hydraulic model so it more accurately reflects real system behavior. A well-calibrated model improves capacity assessments, helps identify bottlenecks and surcharge risks and supports prioritized infrastructure upgrades and strategic capital planning decisions.

4.2 Real-Time Control SCADA at Pumping Stations

Supervisory Control and Data Acquisition (SCADA) allows for remote supervisory operation over key system processes. This section outlines the type and degree of monitoring at the pumping stations in the wastewater collection system in terms of flows, operational status, wet well levels, and flows (inflow and outflow).

Table 4.1 - Type and degree of wastewater pumping station monitoring

Monitoring Devices	Scenario
Process Equipment	Real-time control and SCADA systems in the sense that they have Programmable Logic Controller (PLC) installed at the pumping station.
	Hardwired control systems, no PLCs and no connection to centralized Human Machine Interface software or a data historian. These stations do have wet well high-level alarm float switches wired to a centralized PLC which is connected to an auto dialer which relays alarms to WWPS operations group.
Flow Measurement Locations	Physical location, flow meters are installed on the discharge header(s).
	Virtual Flow Meter, no physical flow meter installed. However, they have a PLC and constant speed pumps. At these stations, the PLC is used to monitor the changing wet well levels and pump run status, to where the wet well dimensions from drawings and field measurements, incoming & outgoing flows to the pumping station can be calculated.
	No Flow Measurement, a physical or virtual flow meter is not present.

All level measurements are in the wet wells. Most of these measurements are made using ultrasonic level transmitters with hydrostatic pressure transducers as backups. Some pumping stations equipped with a PLC have a hydrostatic pressure sensor installed, which is connected to the SCADA system.

Operations staff perform SCADA checks every morning during the workweek, including reviewing alarms. The SCADA checks are recorded in the E-Log. The system is divided into two separate SCADA checks:

- North System (Milton, Acton, Halton Hills) is checked by the North operation staff
- South System (Burlington and Oakville) is checked by the South operation staff

Alarms for each system are generated through an auto dialer, which sends the alarm to the appropriate on call operator 24/7 (North or South)

With the commissioning of Drumquin wastewater pumping station (WWPS) there are about 93% (78 of 84) of the wastewater pumping stations that have SCADA data that monitors directly or are used to calculate the flows in and out of the station and pumping capacities.

4.3 CCTV and Maintenance Hole Inspection Program

Halton Region's well-established Wastewater Asset Inspection Program conducts regular inspections of key infrastructure, including sanitary sewer pipes, laterals, and maintenance hole chambers. These inspections enable early detection of performance and condition related issues, helping to inform timely maintenance, rehabilitation, or replacement within the wastewater collection system.

Inspections are carried out using closed-circuit television (CCTV) and zoom camera technologies. When structural issues are identified in sewer mains, laterals or maintenance holes, they are assessed and addressed based on risk level and priority.

In 2025, 64 km of gravity sewer was inspected using CCTV, representing approximately 3.29% of the gravity sewer collection system. In addition, a total of 3005, or approximately 9.39% of maintenance holes were inspected.

5.0 Operational Challenges and Action Taken

All inquiries and complaints received by Halton Region are logged, categorized and addressed accordingly. Customer service staff resolve many issues over the phone without the need for a work order, and this is usually an indication that the matter is a private issue and/or not related to the public infrastructure. A work order is generated for calls that require follow-up by Halton Region staff. Table 5.1 summarizes the follow-up required from customer calls received and subsequent work orders generated.

Table 5.1 - Summary of Work Orders Related to Customer Complaints/Resolutions

Total Number of Service Requests	Category of Work Orders Issued	Number of Work Orders	Description
1078	Private Side Sewer Lateral	322	Customer backups due to obstructions such as debris, roots, crack, grease, collapse, belly, offset etc. in private side sewer lateral.
	Public Sewer Main Backup	105	Customer backups due to obstruction in sewer main.
	Public Side Sewer Lateral	61	Customer backups due to obstruction such as debris, roots, crack, grease, collapse, belly, offset etc. in public side sewer lateral.
	Private Odour	12	Odours caused by private side issues.
	Public Odour	12	Odours caused by public side issues such as maintenance holes or sewer mains.

5.1 Wastewater Pumping Station Bypasses

Temporary bypass pumping is required to facilitate maintenance, rehabilitation, or construction activities at the wastewater pumping station (WWPS) and/or the associated forcemain. Wastewater flows from the contributing drainage area are continuous and cannot be interrupted; therefore, provisions must be made to maintain conveyance during such activities. Bypass pumping is implemented using temporary pumping systems with sufficient capacity to convey both dry-weather and wet-weather flows.

During a WWPS bypass, wastewater is temporarily conveyed around the station and back into the collection system. Pumping station bypasses are operated by third party contractors who hold the required qualifications and licenses.

For 2025, there was only one (2) bypass events, as listed below

1. Junction St WWPS
    A) March 19-20 during the installation of the bypass ports.
    B) June 16-19 to replace station piping and valves.

Overflow events from pumping stations or the collection system are reported immediately to the MECP District Office upon occurrence. The list of overflow events can be found in Section 8 of this report.

5.2 Inflow/Infiltration

Excessive Inflow/Infiltration (I/I) is the primary cause of sewer surcharging within the wastewater collection system during severe storm events. During these events, the capacity of pumping stations and wastewater treatment plants may also be exceeded resulting in overflows of untreated or partially treated wastewater into the environment.

Halton Region's wastewater collection system is designed to accommodate peak I/I rate; however, it is not designed to handle excessive I/I from private and public sources which can significantly increase sewer flows during severe rain events. The Region's wastewater collection system continues to function well during normal dry weather conditions and typical rain events.

Halton Region has established programs to reduce I/I where feasible. Reducing I/I decreases excess wastewater conveyed and treated, lowering energy and chemical use at treatment facilities and supporting the objectives of Halton Region's Climate Action Plan.

These programs are described in more detail below.

<u>Sewer Optimization and Comprehensive Asset Management Programs</u>

I/I from aging public infrastructure such as sewers and maintenance holes are being addressed through Halton Region's Sewer Optimization and Comprehensive Asset Management Programs. The Sewer Optimization Program utilizes the asset inspections (sewer mains, sewer laterals) to identify opportunities to optimize (replace, line or spot repair) the existing wastewater collection system to reduce extraneous flows throughout Halton Region. The Sewer Optimization Program enhances the existing State of Good Repair (SOGR) Asset Management Program that replaces pipes at end of their lifecycle that are in poor structural condition. In some cases, sections of pipe identified for replacement under the Sewer Optimization Program are removed and included in the SOGR Program as a separate capital project to allow for coordination with the replacement of other capital work in the same area.

Regional Basement Flooding Mitigation Program

The Regional Basement Flooding Mitigation Program is focused on improving long-term wastewater system resilience to increasingly more frequent and intense storm events by reducing excessive inflow and infiltration (I/I) from both public and private sources. An in-depth wastewater system analysis completed in 2024 identified several opportunities to strengthen the Program, with a primary emphasis on reducing basement flooding through private-side stormwater disconnections, which were identified as a leading contributing factor.

Council Report PW-21-25 & PW-27-25/FN-20-25 summarized the findings of the system analysis and outlined recommended enhancements to the Regional Basement Flooding Mitigation Program. Key recommendations included expanding flow monitoring, enhancing subsidy eligibility and amounts, increasing public awareness of stormwater connections and their impacts, implementing a household drainage survey program, and strengthening inter-agency coordination to better align public infrastructure improvements with private-side I/I reduction efforts.

Recommended enhancements include:

- Expanded eligibility for subsidies to include additional private-side I/I reduction measures, such as foundation drain disconnections and improved lot-level drainage controls.
- Updated subsidy amounts to better reflect current construction costs and improve homeowner participation.
- Streamlined application and approval processes to improve program accessibility.
- Targeted prioritization of high-risk areas using flood history, system performance data, and wet-weather flow monitoring results.
- Enhanced coordination with local municipalities and conservation authorities to align private-side measures with broader stormwater and watershed initiatives.
- Improved program communications and outreach to increase homeowner awareness of available subsidies and the importance of private-side actions in reducing basement flooding and I/I.

The recommended enhancements to the Regional Basement Flooding Mitigation Program strengthen private-side flood protection measures and directly support (I/I) reduction by incentivizing homeowners to disconnect private stormwater sources, such as foundation drains and patio drains. These actions reduce stormwater and groundwater entering the sanitary sewer system during wet-weather events, lowering peak flows, reducing surcharging and basement flooding risk, and improving overall wastewater system performance.

For reference, Staff Report's PW-21-25 & PW-27-25/FN-20-25.

6.0 Calibrations, Maintenance & Repairs

6.1 Calibrations

As per Halton Region's Preventative Maintenance (PM) Plan, all monitoring equipment is regularly tested (signals are verified). Operations staff test the high-level float/Milltronics high level, and check Milltronics (ultrasonic level transmitter) parameters (zero and span) at the wastewater pumping stations once per year and these are confirmed through SCADA. The electronic signals in the station flowmeters are checked annually.

The flow monitors utilized in the Regional Flow Monitoring Program are rented and installed by the contractor in the collection system and are calibrated on a regular basis.

6.2 Maintenance and Repairs of Linear Infrastructure

The Sewer Assessment and Cleaning Program includes the condition-based cleaning of local wastewater sewers based on the result of the acoustic rapid assessment inspection (scan). Wastewater mains less than 500mm are scanned every other year, with any segments not meeting a certain rating are flushed. Table 6.1 provides a summary of maintenance and repair activities performed last year.

Table 6.1 – Maintenance/Repair Activities for 202

Description	Metric
Length of Sewer Flushed	199.3km
Length of Sewer Scanned/Assessed	145.8km (ACOUSTIC 80.8km) + (CCTV 65km)
Length of Sewer Trouble/Problem Sections Cleaned	40.3km
Length of Sewer Lined /Replaced /Spot Repaired	17.8km
Number of Maintenance Holes Rehabilitated	55 (5 Rebuild + 50 Repair)

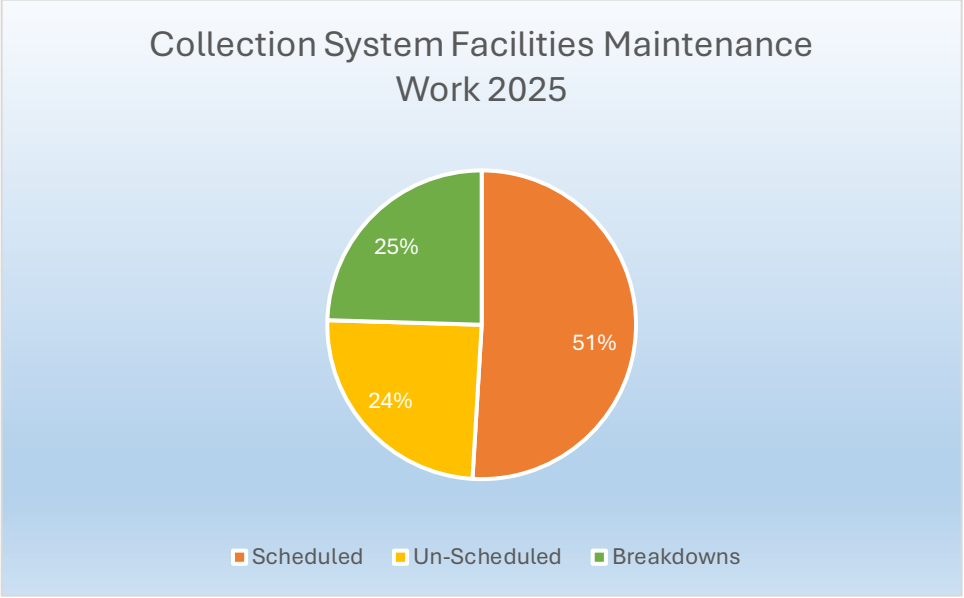
6.3 Maintenance and Repairs of the Collection System Facilities

Halton Region maintains and operates 84 WWPSs. In 2025, approximately 66% of the maintenance work was completed internally and 34% was completed by a third-party contractor. Facilities maintenance work is comprised of three components:

- Scheduled: Work undertaken regularly to maintain the equipment in good working order.
- Un-scheduled: Not a breakdown but if not corrected in 24/48 hours or within the current week could result in a breakdown - urgent and will interrupt current week schedule.
- Breakdowns: Work that's required to restore an asset to physical operation after an unplanned stop – urgent and immediate support required – will interrupt maintenance schedule.

Figure 1 presents the breakdown of the maintenance work completed in 2025.

Figure 1: Collection System Facilities Maintenance Work 2025



7.0 Modifications to Wastewater Collection Systems

Halton Region previously submitted modifications to the MECP under the former Transfer of Review (TOR) Program. The TOR Program was discontinued when the new Halton Region WWCS CLI ECA was issued on September 27, 2022. The final TOR submission for the construction of a sanitary sewer extension on James Street in Halton Hills was completed during this reporting period.

Tables 7.1 and 7.2 identify three types of modifications to the Wastewater Works:

- Notice of Modification (NOM) under the former Mid-Halton WWCS ECA (Table 7.2 only)
- Form SS1 – Record of Future Alteration Authorized for Separate Sewers/Nominally Separate Sewers/Forcemains (under the new WWCS CLI ECA)
- Form SS2 – Record of Future Alteration Authorized for Components of the Municipal Sewage Collection System (under the new WWCS CLI ECA)

Before the new Halton Region WWCS CLI ECA was issued, NOMs were submitted to the MECP Water Supervisor.

After the issuance of the new WWCS CLI ECA, NOMs were replaced by Form SS1 and Form SS2. These forms are now retained on file in accordance with the pre-authorized modification provisions of the ECA for the Wastewater Works.

A status update on the implementation of the Wastewater Works modifications, along with a hyperlink to each modification, is provided in the tables below.

Table 7.1 - Alterations to Halton Region WWCS Authorized in 2025

Project Number	Form	Project Description	Date Signed	Status	Link to Form
PR-3409A	Form SS2	Grandview WWPS Upgrades, Burlington	January 20	Under Construction	ECA-SS2-PR3409A-Grandview WWPS Upgrades-Burlington-2025
PR-3410A	Form SS2	Kingham WWPS Upgrades, Acton	January 20	Under Construction	ECA-SS2-PR3410A-Kingham WWPS Upgrades-Acton-2025
DH-1042	Form SS1	Prologis Distribution Centre Trafalgar Road & Steeles Ave, Halton Hills	January 24	Under Construction	ECA-SS1-DH1042-Prologis Distribution Centre Trafalgar Road &Steeles Avenue-2025

Project Number	Form	Project Description	Date Signed	Status	Link to Form
PR-3404	Form SS1	Park Ave W & E and Side Streets, Burlington	March 13	Under Construction	ECA-SS1-PR3404-Park Ave E&W and side street (SOGR)-Burlington-2025
DO-1105	Form SS1	Winston Church hill Blvd, Oakville	March 17	Under Construction	ECA-SS1-DO1105-772 and 560 Winston Churchill Blvd-Oakville-2025
DM-1071	Form SS1	Sanitary Sewer Sundial Homes (4th Line), Milton	May 02	Under Construction	ECA-SS1-DM-1071-Sanitary Sewers for Sundial Homes 4th Line-Milton-2025
PR-3513B	Form SS1	WWM Upsizing on Childs Dr & Nipissing Rd, Milton	June 13	Under Construction	ECA-SS1-PR3513B-WWM Upsizing on Childs Drive and Nipissing Rd-Town of Milton-2025
DB-1036	Form SS1	Milcroft Area Block C, Burlington	June 18	Tender/Design	ECA-SS1-DB-1036-Milcroft Area Block C-Burlington-2025
DO-1125	Form SS1	Bronte Green Subdivision, Oakville	June 23	Completed	ECA-SS1-DO-1125-Bronte Green Subdivision-Oakville-2025
DH-1036	Form SS1	Trafalgar Meadows Subdivision, Halton Hills	June 13	Under Construction	ECA-SS1-DH1036-Trafalgar Meadows Subdivision-Halton Hills-2025
PR-3446	Form SS1	WWM Replacements on Sabel St, Oakville	July 04	Under Construction	ECA-SS1-PR3446-WWM Replacements Sabel Street-Oakville-2025
PR-3445	Form SS1	Belvedere WWPS Forcemain Project, Oakville	July 14	Under Construction	ECA-SS1-PR3445-Belvedere WWPS Forcemain Project-Oakville-2025
PR-3401A	Form SS1	Armstrong Ave WWPS, Georgetown	August 15	Tender/Design	ECA-SS1-PR3401A-Armstrong Ave WWPS-Georgetown-2025
DO-1128	Form SS1	Rampen Holdings Inc. Subdivision, Oakville	August 29	Completed	ECA-SS1-DO1128-Rampen Holdings Inc. (Coscorp) Subdivision-Oakville-2025
PR-3470A	Form SS1	WW Main Replacements on Faludon Dr, Georgetown	September 18	Tender/Design	ECA-SS1-PR3470A-Wastewater Main Replacements Faludon Dr, Marylin Cres, Torino Gate-Georgetown-2025
DO-1127	Form SS1	2165 Dundas Street Schlegal Ltd, Oakville	October 10	Under Construction	ECA-SS1-DO1127-2165 Dundas Street Schlegal LTD-Oakville-2025
DH-1043	Form SS1	Glen Williams Estates Subdivision, Halton Hills	October 03	Under Construction	ECA-SS1-DH1043-Glen Williams Estates (Rinaldi) Subdivision-Halton Hills-2025

Project Number	Form	Project Description	Date Signed	Status	Link to Form
PR-3480A	Form SS2	Main Street WWPS, Georgetown	November 19	Tender/Design	ECA-SS2-PR3480A- Main Street WWPS - Georgetown - 2025
DM-1102	Form SS1	7419 Tremaine Rd, Milton	December 12	Tender/Design	ECA-SS1-DM-1102-7419 Tremaine Rd-Milton-2025

Table 7.2 - Alterations to Halton Region WWCS Authorized Prior to 2025

Project Number	Form	Project Description	Date Signed	Status	Link to Form
DO-1112	Form SS1	Joshua's Creek Phase 3A, Oakville	January 03, 2024	Under Construction	ECA-SS1-DO1112-Joshua's Creek Phase 3A-Oakville-2024
DO-1113	Form SS1	Joshua's Creek Phase 3B, Oakville	January 05, 2024	Tender/Design	ECA-SS1-DO1113-Joshua's Creek Phase 3B-Oakville-2024
DO-1110	Form SS1	Vogue Wycliffe 3171 LRW Subdivision	February 01, 2024	Tender/Design	ECA-SS1-DO1110-Vogue Wycliffe 3171 LRW Subdivision-Oakville-2024
DO-1090	Form SS1	Redoak/Capoak Phase 2	February 29, 2024	Under Construction	ECA-SS1-DO1090–Redoak Capoak Phase 2 Subdivision-Oakville-2024
PR2671A & PR2671B	Form SS1	600/300/375mm WWM on Dundas St	August 8, 2024	Under Construction	ECA-SS1-PR2671A & PR2671B-600/300/375mm WWM on Dundas St-Oakville/Burlington-2024
PR-3429A	Form SS1	WWM on McCraney Street and Various Side Streets (SOGR project), Oakville	March 18, 2024	Under Construction	ECA-SS1-PR3429-WWM on McCraney Street and Various Side Streets-Oakville-2024
DO-1102	Form SS1	Crosstrails TWKD Developments, Oakville	March 19, 2024	Under Construction	ECA-SS1-DO1102-Crosstrails TWKD Developments-Oakville-2024
DO-1120	Form SS1	Menkes Lakeshore Woods Subdivision, in Oakville	March 25, 2024	Under Construction	ECA-SS1-DO1120-Menkes Lakeshore Woods Subdivision-Oakville-2024
PR-3146A	Form SS1	WWM on Bromley and various streets (SOGR project), Burlington	April 13, 2024	Under Construction	ECA-SS1-PR3146A-WWM on Bromley and Side Streets (SOGR project)-Burlington-2024
DM-1086	Form SS1	Bayview Lexis Ph3, Milton	May 3, 2024	Under Construction	ECA-SS1-DM1086-Bayview Lexis Phase 3-Milton-2024

Project Number	Form	Project Description	Date Signed	Status	Link to Form
DM-1090	Form SS1	Orlando North Porta, Milton	May 8, 2024	Under Construction	ECA-SS1-DM-1090-Orlando North Porta-Milton-2024
DM-1085	Form SS1	Garito Barbuto ToR Phase 2, Milton	June 11, 2024	Under Construction	ECA-SS1-DM-1085-Garito Barbuto ToR Phase 2-Milton-2024
DM-1031	Form SS1	Milton Meadows Subdivision, Milton	July 10, 2024	Under Construction	ECA-SS1-DM1031-Milton Meadows Subdivision-Milton-2024
DM-1072	Form SS1	Milton III 75 Land Limited Subdivision, in Milton	July 17, 2024	Completed	ECA-SS1-DM1072-Milton III 75 Land Limited Subdivision-Milton-2024
DM-1093	Form SS1	Schlegel LTC, Milton	July 26, 2024	Completed	ECA-SS1-DM1093-Schlegel LTC-Milton-2024
DO-1098	Form SS1	Preserve North Phase 4 Subdivision, Oakville	August 14, 2024	Tender/Design	ECA-SS1-DO1098-Preserve North Phase 4 Subdivision-Oakville-2024
DO-1114	Form SS1	Sixth Oak North Subdivision, Oakville	August 30, 2024	Completed	ECA-SS1-DO1114-Sixth Oak North Subdivision WWCS-Oakville-2024
PR-3250L	Form SS2	Mid-Block WWPS Backup Pump Control System Upgrades, Milton	September 3, 2024	Under Construction	ECA-SS2-PR3250K-MidBlock WWPS Backup Pump Control System Upgrades-Milton-2024
PR-3250K	Form SS2	Tremaine Rd WWPS Backup Pump Control System Upgrades, Milton	September 4, 2024	Under Construction	ECA-SS2-PR3250K-Tremaine Rd WWPS Backup Pump Control System Upgrades-Milton-2024
DO-1094	Form SS1	Fernbrook Homes (OTMH) Subdivision, Oakville	September 10, 2024	Completed	ECA-SS1-DO1094-Fernbrook Homes (OTMH) Subdivision-Oakville-2024
DO-1111	Form SS1	Star Oak South Subdivision, Oakville	November 8, 2024	Completed	ECA-SS1-DO1111-Star Oak South Subdivision-Oakville-2024
DO-1117	Form SS1	DOCASA Subdivision, Oakville	November 15, 2024	Completed	ECA-SS1-DO1117-DOCASA Subdivision-Oakville-2024
PR-3219A & PR-3219B	Form SS1	Prospect St and various Side Streets, Burlington	November 15, 2024	Under Construction	ECA-SS1-PR3219A & PR3219B-Prospect St and Various Side Streets-Burlington-2024
PR-2987C	Form SS1	John St WWPS, Georgetown (Phase 1)	December 9, 2024	Under Construction	ECA-SS1-PR2987-John Street Pumping Station-Georgetown-2024

Project Number	Form	Project Description	Date Signed	Status	Link to Form
DO-1073	Form SS1	Dundas St New Trunk Sanitary, Oakville	December 11, 2024	Cancelled	ECA-SS1-DO1073-Dundas St New Trunk Sanitary-Oakville-2024
DM-1100	Form SS1	Milton Meadows External Works, Milton	December 12, 2024	Completed	ECA-SS1-DM1100-Milton Meadows-Milton-2024
PR-2987C	Form SS2	John St WWPS, Georgetown (Phase 1)	December 16, 2024	Under Construction	ECA-SS2-PR2987C-John Street WWPS (Phase 1)-Georgetown-2024
PR-3119B	Form SS1	1500mm Trunk Sewer on Britannia Road, Milton	December 20, 2023	Under Construction	ECA-SS1-PR3119B-1500mm Trunk Sewer on Britannia Road-Milton-2023
DM-1076	Form SS1	New Sanitary Sewers servicing Mount Pleasant Way Extension (Escarpment Business Community West Phase III), Milton	December 13, 2023	Under Construction	ECA-SS1-DM1076-Mount Pleasant Way Extension (Escarpment Business Community West Phase III)-Milton-2023
DM-1068	Form SS1	New Sanitary Sewers servicing Fieldgate West Subdivision, Milton	November 30, 2023	Under Construction	ECA-SS1-DM1068-Fieldgate West Subdivision-Milton-2023
DM-1075	Form SS1	New sanitary sewers in Mattamy Garito Barbuto, Milton	October 10, 2023	Completed	ECA-SS1-DM1075-Sanitary Sewers in Mattamy Garito Barbuto-Milton-2023
DO-1116	Form SS1	Abandonment of sewer and service connection to North Park Development/Town of Oakville Recreation Centre Project, Oakville	September 29, 2023	Under Construction	ECA-SS1-DO1116-North Park Development 3070 Neyagawa Boulevard-Oakville -2023
PR-2668A	Form SS1	Installation of 450mm Sanitary Sewer in 1200mm tunnel on Britannia Road from Trafalgar Road to 580+/- east of Trafalgar Road, M	September 29, 2023	Under Construction	ECA-SS1-PR2668A-Installation of SS in tunnel on Britannia Rd. from Trafalgar Rd. to 580+/- East of Trafalgar Rd.-Milton-2023

Project Number	Form	Project Description	Date Signed	Status	Link to Form
DB-1022	Form SS1	Plains Road E., Wastewater main extension, (National Homes), Burlington	September 11, 2023	Tender/Design	ECA-SS1-DB1022-Wastewater main extension(National Homes)-Burlington-2023
DM-1083	Form SS1	New sanitary trunk sewer on Savoline Blvd to service Fieldgate West Limited Subd, Milton	September 5, 2023	Under Construction	ECA-SS1-DM1083-Savoline Trunk (Fieldgate West)-Milton-2023
DO-1071	Form SS1	Sanitary Sewers in Oakville Green Development - Phase 1, Oakville	August 24, 2023	Tender/Design	ECA-SS1-DO1071-Oakville Green Development(Phase 1)-Oakville-2023
DO-1099	Form SS1	Sanitary Sewer Extension on Glenashton Dr, Oakville	August 23, 2023	Under Construction	ECA-SS1-DO1099-315 Glenashton Drive-Oakville-2023
DM-1052	Form SS1	Sanitary Sewers in Pony Pines Phase 4, Milton	July 21, 2023	Tender/Design	ECA-SS1-DM1052-Pony Pines Phase 4-Milton-2023
DM-1084	Form SS1	Sanitary Trunk Sewer on Savoline Blvd/LSL Ave Intersection (Ex. SMH 22A to SMH 63A), Milton	June 26, 2023	Under Construction	ECA-SS1-DM1084-Savoline Trunk (Fieldgate West)-Milton-2023
DM-1080	Form SS1	Sanitary Trunk Sewer on Savoline Blvd/Fiddlehead Ln., Milton	June 19, 2023	Completed	ECA-SS1-DM1080-Savoline Blvd+Fiddlehead Ln,Pony Pines (Phase 3+4)-Milton-2023
PR-3152A	Form SS1	Sanitary Sewers on Ontario St S and Woodward Ave WM projects, Milton	June 13, 2023	Completed	ECA-SS1-PR3152A-Ontario St+Woodward Ave-Milton-2023
PR-3348	Form SS1	Sanitary Trunk Sewer on Eighth Ln, 10 SR & Mountainview, Halton Hills (Georgetown)	June 15, 2023	Completed	ECA-SS1-PR3348-Georgetown South Sanitary Trunk-Georgetown-2023
DM-1051	Form SS1	Sanitary Sewers in Pony Pines Ph3, Milton - split into Ph 3A (DM-1051) and 3B (DM-1088)	June 6, 2023	Completed	ECA-SS1-DM1051-Pony Pines (Phase 3)-Milton-2023

Project Number	Form	Project Description	Date Signed	Status	Link to Form
PR-3346	Form SS1	Sanitary Sewers Replacement, Reid Crt, Gower Crt, McIntyre Cres,Todd Rd, Temple Rd-Georgetown	May 23, 2023	Under Construction	ECA-SS1-PR3346-Reid Crt, Gower Crt, McIntyre Cres, Todd Rd, Temple Rd-Georgetown-2023
DM-1058	Form SS1	Sanitary Sewers in Varga Phase 2, Milton	March 24, 2023	Completed	ECA-SS1-DM1058-Sanitary Sewer in Varga Phase 2-Milton-2023
DO-1058	Form SS1	Sanitary Sewers in Bronte Green Subdiv, Oakville (near Regional HQ)	February 22, 2023	Under Construction	ECA-SS1-DO1058-Sanitary Sewer in Bronte Green Region's Lands-2023
PR-2700C	Form SS2	SCADA Implementation for Gollop Cres WWPS	November 28, 2022	Completed	ECA-SS2-PR2700-SCADA Implementation for Gollop Cres WWPS-Halton Hills-2022
PR-2700C	Form SS2	SCADA Implementation for Lynden Circle WWPS	November 28, 2022	Completed	ECA-SS2-PR2700-SCADA Implementation for Lynden Circle WWPS-Halton Hills-2022
PR-2700C	Form SS2	SCADA Implementation for Moore Park WWPS	November 28, 2022	Completed	ECA-SS2-PR2700-SCADA Implementation for Moore Park WWPS-Halton Hills-2022
PR-2907	Form SS1	Sanitary sewers on McGeachie Dr, Milton	October 24, 2022	Completed	ECA-SS1-PR2907A-Sanitary Sewer on McGeachie Dr-Milton-2022
DM-1074	NOM	Sanitary Sewers in Bayview Lexis Ph2, Milton	September 27, 2022	Completed	ECA-NOM-DM1074-Mattamy, Bayview-Lexis Ph.2-Milton-2022
DM-1056	NOM	Sanitary Sewers in Fieldgate Mil Con Three, Milton	July 4, 2022	Completed	ECA-NOM-DM1056-Mil Con Three Subdivision-Milton
DM-1064	NOM	Sanitary sewers on Kennedy Circle (East) Ext, Milton	March 18, 2022	Completed	ECA-NOM-DM-1064-Kennedy Circle-Milton-2022
DO-1073	NOM	Sanitary sewer extension of Arbor Memorial, Oakville	October 28, 2021	Cancelled	ECA-NOM-DO1073-William Cutmore Blvd-Oakville-2021
PR-3126	NOM	Sanitary trunk main on Eighth Ln, Halton Hills & Milton	May 21, 2021	Under Construction	ECA-NOM-PR3126A-Eighth Line Trunk-Milton-2021

Project Number	Form	Project Description	Date Signed	Status	Link to Form
PR-3244	NOM	Pumping station upgrade, Paletta -Gardens WWPS, Burlington	December 21, 2020	Completed	ECA-NOM-PR-3244-PALETTA GARDENS WWPS-BURLINGTON
PR-3245	Form 1	Pumping station upgrade, Bromley Park WWPS, Burlington	December 21, 2020	Completed	ECA-NOM-PR-3245-BROMLEY PARK WWPS-BURLINGTON
DH-1028	NOM	Sanitary sewer connect to Steeles from NADC, Halton Hills	July 16, 2020	Tender/ Design	ECA-NOM-DH1028-ENTERPRISE CRT-HH
DB-1011	Form 2	Sanitary sewer extending from Bird Boulevard, Burlington	August 27, 2019	Cancelled	ECA-F2-DB1011-Stonehaven Dr-Burlington-19

8.0 Discharge Events

Some of the wastewater pumping stations listed in *Appendix A* are equipped with standby power generators to ensure critical equipment continues to operate in the event of a power failure.

Wastewater collection system related events are reported to the MECP in accordance with ECA requirements, such as observed overflows, spills, customer complaints resulting from odor or noise, or any equipment taken out of service. The On-Call Public Health Inspector is notified if an overflow occurs at one of the pumping stations listed in the Wastewater Stations Event Reporting Health Risk Escalation Table (Q-LI-3297). Halton Region has documented work instructions, titled Wastewater Stations Event Reporting (Q-WI-3311) and Wastewater Linear Spills Event Reporting (Q-WI-4601), that cover the regulatory requirements and best practices for reporting events.

Halton Region uses its best efforts to collect a representative sample consisting of one grab sample from the wastewater pumping station, which is analyzed by an accredited laboratory. *Appendix C* provides all lab sample results. Table 8.1 summarizes all available overflows, spills, and abnormal discharge events in the reporting year.

Table 8.1 - Summary of 2025 Overflow, Spill or Abnormal Discharge Events

WWCS Subsystem	Date	SAC Incident #	Type	Location of Event	Receiver Name	Start Time	Duration	Volume (m^3)	Volume Determination	Cause Code	Samples Taken
Burlington Skyway	Mar-14	1-IX3U2N	Spill	Burlington Skyway WWCS	Catch basin (730 Guelph Line, Burlington)	7:23 pm	N/A	N/A	N/A	N/A	N/A
Burlington Skyway	Mar-21	1-MJI9IF	Spill	Burlington Skyway WWCS	Catch basin (730 Guelph Line, Burlington)	N/A	N/A	N/A	N/A	N/A	N/A
Burlington Skyway	Apr-3	1-N83TTS	Sanitary Sewer Overflow	Mt. Gardens Flow Regulator	Burlington Skyway WWTP	5:30 am	14 hours	1400	Estimated	1	No
Burlington Skyway	Apr-8	1-NHHJMX	Spill	864 Drury Lane, Burlington	City of Burlington catch basin nearby	9:45 am	2-3 mins	2 – 3	Estimated	N/A	N/A
Oakville SE	Apr-16	1-NTK5J2	Spill	2510 Hampshire Gate, Oakville	Ditch inlet catch basin	4:57 pm	N/A	N/A	N/A	N/A	N/A
Oakville SE	Apr-24	1-O446XV	Spill	227 Cross Ave, Oakville	Catch basin	3:20 pm	N/A	N/A	N/A	N/A	N/A
Burlington Skyway	Jul-24	1-P7TNC6	Spill	Ghent Ave & Lilnan Court, Burlington	N/A	4:00 pm	10 mins	0.1	Estimated	N/A	No
Oakville SE	Jul-24	1-P8CHG0	Odour	Oakville SE WWTP	N/A	8:00 pm	2 hours	N/A	N/A	N/A	N/A

WWCS Subsystem	Date	SAC Incident #	Type	Location of Event	Receiver Name	Start Time	Duration	Volume (m^3)	Volume Determination	Cause Code	Samples Taken
Junction St WWPS	Aug-1	1-P9SNSZ	Spill	Junction Wastewater Pumping Station (B1)	Rambo Creek	11:15 pm	7 hrs 35 min	466.83	Estimated	N/A	Yes
Georgetown	Aug-15	1-PBTV5W	Spill	Armstrong WW Pumping Station	Storm pond	2:56 pm	39 mins	72.30	Estimated	3	Yes
Georgetown	Sept-15	1-PJ57UU	Odour	Georgetown WWCS John St WWPS G2	N/A	7:51 pm	Unknown	N/A	N/A	N/A	N/A
Burlington Skyway	Oct-18	1-PQYMN5	Spill	Appleby Place WWPS B17	Lake Ontario	8:44 am	18 days 7 hrs 25 mins	474.57	Estimated	8	No

Appendix A – List of Wastewater Pumping Stations

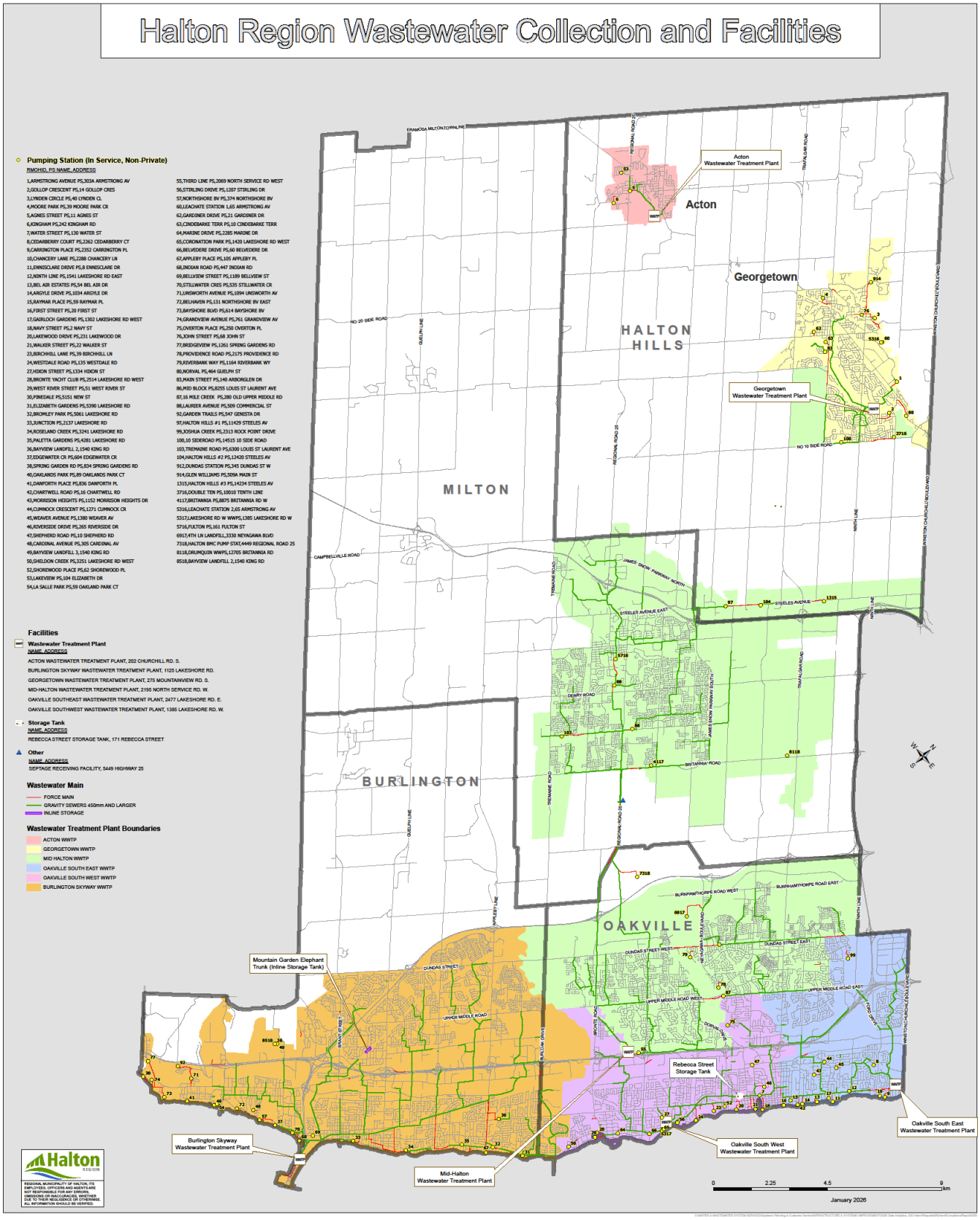
Name	Town or City	Drainage Area
10 Sideroad PS	Georgetown (Halton Hills)	Georgetown
Agnes Street PS	Acton (Halton Hills)	Acton
Appleby Place PS	Burlington	Burlington Skyway
Argyle Drive PS	Oakville	Oakville Southeast
Armstrong Avenue PS	Georgetown (Halton Hills)	Georgetown
Bayshore Boulevard PS	Burlington	Burlington Skyway
Bel Air Estates PS	Oakville	Oakville Southeast
Belhaven PS	Burlington	Burlington Skyway
Bellview Street PS	Burlington	Burlington Skyway
Belvedere Drive PS	Oakville	Oakville Southwest
Birch Hill Lane PS	Oakville	Oakville Southwest
Bridgeview PS	Burlington	Burlington Skyway
Britannia Rd PS	Milton	Mid-Halton
Bromley Park PS	Burlington	Burlington Skyway
Bronte Yacht Club PS	Oakville	Oakville Southwest
Cardinal Avenue PS	Burlington	Burlington Skyway
Carrington Place PS	Oakville	Oakville Southeast
Cedarberry Court PS	Oakville	Oakville Southeast
Chancery Lane PS	Oakville	Oakville Southeast
Chartwell Road PS	Oakville	Oakville Southeast
Cindebarke Terrace PS	Georgetown (Halton Hills)	Georgetown
Coronation Park PS	Oakville	Oakville Southwest
Cumnock Crescent PS	Oakville	Oakville Southeast
Danforth Place PS	Burlington	Burlington Skyway
Double Ten PS	Georgetown (Halton Hills)	Georgetown
Drumquin PS	Milton	Mid-Halton
Dundas East PS	Oakville	Mid-Halton
Dundas PS	Oakville	Mid-Halton
Edgewater Crescent PS	Burlington	Burlington Skyway

Name	Town or City	Drainage Area
Elizabeth Gardens PS	Burlington	Burlington Skyway
Ennisclare Drive PS	Oakville	Oakville Southeast
First Street PS	Oakville	Oakville Southeast
Fulton St PS	Milton	Mid-Halton
Gairloch Gardens PS	Oakville	Oakville Southeast
Garden Trails PS	Burlington	Burlington Skyway
Gardiner Drive PS	Georgetown (Halton Hills)	Georgetown
Glen Williams PS	Georgetown (Halton Hills)	Georgetown
Gollop Crescent PS	Georgetown (Halton Hills)	Georgetown
Grandview Avenue PS	Burlington	Burlington Skyway
Halton Hills #1 PS	Milton	Mid-Halton
Halton Hills #2 PS	Milton	Mid-Halton
Halton Hills #3 PS	Milton	Mid-Halton
Hixon Street PS	Oakville	Oakville Southwest
Indian Road PS	Burlington	Burlington Skyway
John Street PS	Georgetown (Halton Hills)	Georgetown
Joshua Creek PS	Oakville	Oakville Southeast
Junction St PS	Burlington	Burlington Skyway
Kingham PS	Acton (Halton Hills)	Acton
La Salle Park PS	Burlington	Burlington Skyway
Lakeview PS	Acton (Halton Hills)	Acton
Lakewood Drive PS	Oakville	Oakville Southwest
Laurier Avenue PS	Milton	Mid-Halton
Lynden Circle PS	Georgetown (Halton Hills)	Georgetown
Main Street PS	Georgetown (Halton Hills)	Georgetown
Marine Drive PS	Oakville	Oakville Southwest
Mid-Block PS	Milton	Mid-Halton
Moore Park PS	Georgetown (Halton Hills)	Georgetown
Morrison Heights PS	Oakville	Oakville Southeast
Navy Street PS	Oakville	Oakville Southeast

Name	Town or City	Drainage Area
Northshore Boulevard PS	Oakville	Burlington Skyway
Norval PS	Georgetown (Halton Hills)	Georgetown
Oaklands Park PS	Burlington	Burlington Skyway
Overton Place PS	Oakville	Oakville Southwest
Paletta Gardens PS	Burlington	Burlington Skyway
Pinedale PS	Burlington	Burlington Skyway
Providence Road PS	Oakville	Mid-Halton
Raymar Place PS	Oakville	Oakville Southeast
Riverbank Way PS	Oakville	Mid-Halton
Riverside Drive PS	Oakville	Oakville Southwest
Roseland Creek PS	Burlington	Burlington Skyway
Sheldon Creek PS	Oakville	Oakville Southwest
Shepherd Road PS	Oakville	Oakville Southwest
Shorewood Place PS	Oakville	Oakville Southwest
Sixteen Mile Creek PS	Oakville	Mid-Halton
Spring Garden Road PS	Burlington	Burlington Skyway
Stillwater Crescent PS	Burlington	Burlington Skyway
Stirling Drive PS	Oakville	Oakville Southwest
Tremaine Road PS	Milton	Mid-Halton
Unsworth Avenue PS	Burlington	Burlington Skyway
Walker Street PS	Oakville	Oakville Southwest
Water Street PS	Oakville	Oakville Southwest
Weaver Avenue PS	Oakville	Oakville Southeast
West River PS	Oakville	Oakville Southwest
Westdale Road PS	Oakville	Oakville Southwest

Appendix B – Overview Map of Halton Region's Wastewater Collection Systems

Halton Region Wastewater Collection and Facilities



Appendix C – Overflow Lab Result

Certificate of Analysis

Regional Municipality of Halton
1135 Lakeshore Rd
Burlington, ON L7S 1A8
Phone: 905-825-6000 x 3030
Halton Regional Laboratory

Report ID: 25S-01181011926142025

Client: Wastewater Collection **Submission #** 25S-01181

Method	Test Description	Parameter	Result Value	Units	Detection Limit	Low Obj.	High Obj.	Low Limit	High Limit
Sample Type	Sewer Overflow	**Location**	X				**Sample ID**		25S-01181-01
Sample Point	X	**Sampled By**	Kosterewa M.						Regulatory
Sample Date	08/02/25	**Sample Time**	01:30	**Sample Period (Hrs)**			**SACI #**		1-P9SNSZ
Sample Description									
PS-4	**BOD**	Total BOD	190	mg/L	1.0				
		Analysis Start Time	2025/08/05 14:34						
PS-27	**NH3-N (AQ400)**	Total Ammonia Nitrogen	26.8	mg/L	0.10				
		Analysis Start Time	2028/08/08 11:07						
PS-12	**TP**	Total Phosphorus	4.11	mg/L	0.02				
		Analysis Start Time	2025/08/06 14:17						
PS-13	**TSS**	Suspended Solids	85	mg/L	2.0				
		Analysis Start Time	2025/08/07 09:35						

Analysis Notes: **Sample Condition:** Ok

Senior Lab Analyst Approval: ASB

Results apply to the sample as received. Analysis statistics such as uncertainty, significant figures and methods are available on request.
Field method result values are provided by the client and may affect the validity of the results on this report.
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Supervisor Approval: Monica Klawunn

Client: Wastewater Collection **Submission #** 25S-01267

Method	Test Description	Parameter	Result Value	Units	Detection Limit	Low Obj.	High Obj.	Low Limit	High Limit
Sample Type	Sewer Overflow	**Location** X						**Sample ID**	25S-01267-01
Sample Point	X	**Sampled By** Dean J.							Regulatory
Sample Date	08/14/25	**Sample Time** 15:30	**Sample Period (Hrs)**					**SACI #**	1-PBTV5W
Sample Description	Armstrong PS overflow- 303A Armstrong Ave								
PS-4	**BOD**	Total BOD	680	mg/L	1.0				
		Analysis Start Time	2025/08/15 10:18						
PS-27	**NH3-N (AQ400)**	Total Ammonia Nitrogen	30.8	mg/L	0.10				
		Analysis Start Time	2025/08/20 14:47						
PS-12	**TP**	Total Phosphorus	26.5	mg/L	0.02				
		Analysis Start Time	2025/08/20 15:05						
PS-13	**TSS**	Suspended Solids	250	mg/L	2.0				
		Analysis Start Time	2025/08/21 11:51						

Analysis Notes: **Sample Condition:** Ok

Senior Lab Analyst Approval: NLL

Results apply to the sample as received. Analysis statistics such as uncertainty, significant figures and methods are available on request.
Field method result values are provided by the client and may affect the validity of the results on this report.
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Supervisor Approval: Jordan Maltby