



Grimsby Sanitary Sewage System

The Corporation of the Town of Grimsby

2025 Annual Performance Report

January 1 to December 31, 2025

Ministry of the Environment, Conservation and Parks

ECA # 065-W601

Grimsby Sanitary Sewage System - 2025 Performance Report

This report summarizes the annual performance of the Grimsby Sanitary Sewage System (Grimsby Sanitary System) in accordance with Environmental Compliance Approval #065-W601, Schedule E Condition 4.6 from January 1 to December 31, 2025.

Description of Sanitary Sewage System

The Grimsby Sanitary System is a stand-alone municipal sewage collection system which conveys one hundred percent (100%) of its wastewater to the Region of Niagara's (Region) Baker Road Wastewater Treatment Plant (Baker Road WWTP). The Grimsby Sanitary Sewer System and the Baker Road WWTP are components of the larger Baker Road Wastewater System (Baker Road System).

The Baker Road System services the Town of Grimsby, the communities of Beamsville, Campden, Jordan, Jordan Station, and Vineland in the Town of Lincoln, and the community of Smithville in the Township of West Lincoln. The Baker Road System is a two-tier wastewater treatment and collection system. The Region is responsible for the treatment and trunk conveyance of flow through the Region's network of pumping stations, forcemains, and major trunk sewers. The lower tier municipalities (Grimsby, Lincoln and West Lincoln) are responsible for the collection of wastewater flows from customers through the municipally owned and operated local collection system(s), with the Grimsby Sanitary System being one of them.

The Grimsby Sanitary System collects wastewater from approximately 29,553 customers within the Town of Grimsby and consists of approximately 113 km of Town-owned mainline sewers ranging in size from 150 mm to 1800mm in diameter.

Report Distribution

As required under Schedule E - Condition 4.7 of ECA 065-W601, the annual report will be available to the public at no charge on the Town's website or through Public Request by June 1st of the reporting year.

Summary of Monitoring Data (if applicable)

The Grimsby Sanitary System is overseen by the Public Works Department, with the Environmental Services Division being responsible for day-to-day operation and maintenance (i.e. sewer flushing programs, maintenance hole inspections, sewer lateral inquiries, etc.) and the Engineering Division managing long term programs (i.e. asset condition assessments, infiltration and inflow reduction, rehabilitation programs, etc.).

Annual Sewer Inspection Program

The Town performs an annual flushing and inspection program for the Grimsby Sanitary System, consisting of sanitary sewer mainline flushing and camera (CCTV) inspections. The purpose of these inspections is to identify infrastructure that have structural or other noted deficiencies. Information collected during the inspections is reviewed and analyzed by a CCTV contractor. An assessment condition rating report is provided to the Town to support future infrastructure repairs and replacement projects. Deficiencies found during the CCTV inspections are prioritized and addressed through rehabilitation programs. The Town's level of service for the inspection program is to have all mainline sewers inspected once every 7 years.

Sewer Flushing Program

Licensed wastewater operators perform annual flushing program each spring in areas of the system that have been identified as “problematic” through past incidents and inspections. The rest of the Grimsby Sanitary System has been divided up into four (4) quadrants. One (1) of the four (4) quadrants is flushed annually, with all four (4) quadrants being flushed once every four (4) years. Flushing is conducted using the Town’s hydrovac/water flushing truck. High-pressure, high-volume water and specially designed nozzles are used to clear the system of built-up debris that has the potential to reduce system efficiency. During the flushing program, operators inspect each maintenance hole that is being accessed for flushing. Any deficiencies that are identified are prioritized for future rehabilitation programs.

Summary of Monitoring Programs

Table A details the monitoring activities performed by Grimsby staff during the reporting period. Based on the data collected and reviewed, it has been determined that the system is performing effectively and as designed. At this time there are no required major modifications required for the collection system.

Table A – Summary of Monitoring Programs

Program Title	Program Description	Program Data from Reporting Period
Spring Sewer Flushing	Flushing of mainline sewers in problematic areas (obstructions, sags, grease build-up, etc.).	Staff completed annual (spring) flushing activities in problematic areas.
Annual Sewer Flushing	Annual flushing of mainline sewers by environmental services department.	Staff conducted a review of the sanitary sewer collection system and completed flushing activities in key areas throughout the reporting period.
Maintenance Hole (MH) Inspections	MH inspections are completed during the spring and annual flushing program.	Staff inspected 107 maintenance holes during the reporting period.
Tidflex Units & Overflow Outlets	Tidflex Units and Overflow Outlets are inspected every two (2) months and cleaned as necessary.	Staff inspected, cleaned, and flushed all locations.
CCTV Inspections	CCTV inspection program is completed so that all mainline sewers are inspected once every 7 years. Mainline sewer pipes are flushed as part of the inspection process.	Approximately 22,500 metres of mainline sewers were inspected in 2025 by the Town’s contractor and reports provided to the Engineering Division.

Operational Issues and Corrective Actions

All maintenance was performed on behalf of the Owner, by licensed Operators or qualified contracted service providers who exercise due diligence in ensuring the works, and the related equipment, are properly operated and maintained to achieve compliance with the Town’s license.

As noted in Table B, there were no operational issues identified during the reporting period.

Table B – Summary of Operational Issues and Corrective Actions

Date	Description	Corrective Actions
Sanitary Lateral Replacement Program	Rehabilitation plan to reline or replace old/deficient service laterals. Deficiencies have been identified through CCTV inspections and property owner complaints.	Replacement project began in Q4 2025 and will continue into 2026.

Major Structure & Equipment Calibration, Maintenance and Repairs

Table C provides a summary of activities carried out on major structures and collection system works that were not covered under the operational issues section of this report.

Table C – Major Structure & Equipment Calibration, Maintenance and Repairs

Major Structure or Equipment	Summary of Work Performed in 2025
Maintenance Holes	Staff completed repairs on maintenance holes as required during the reporting period. Examples of repairs completed include lid replacements, parging repairs, and ladder replacements.
Fall Arrest Equipment	All fall arrest and lifting devices were inspected during the reporting period.
Air Quality Monitoring Devices	All portable air quality monitoring devices were inspected and calibrated during the reporting period.
Trench Boxes	All trench boxes were inspected during the reporting period.
Property Laterals	Eight (8) properties in the Town had sewer laterals repaired/replaced during the reporting period.

Inquiries and Complaints

The Town received sixty-eight (68) complaints during the reporting period, related to the Grimsby Sanitary System. The types of complaints and corresponding steps taken to address them, are described in Table D.

Table D – Summary of Complaints

Complaint Type	Location of Issue (Owner)		Resolution
	Public	Private	
Home Sewer - Backup	21	24	<p>Environmental Service staff investigate complaints of using several methods, including CCTV.</p> <p>Where blockages are found on the public portion of the lateral, methods such as augering and flushing are used to clear blockage. Excavation and repairs are completed where necessary.</p> <p>Where blockages are found on the private portion of the lateral, property owners are advised to contact a professional service provider.</p> <p>Where blockages are found on the public or private portion of the lateral, and the cause of the blockage is found to be caused by Town owned tree roots, homeowners are eligible for a lateral replacement reimbursement.</p>
Home Sewer – Odour	-	-	Environmental Service staff investigate complaints of sewer odours using several methods, including CCTV. Property owners are advised of the findings when the cause of the odour is identified on private property.
Home Sewer - Other	3	-	Environmental Services staff investigate complaints and complete repairs as necessary.
Main Sewer - Odour (Region)	3	-	Environmental Service staff investigate complaints of sewer odour. Findings are forwarded to the Region of Niagara as applicable.
Main Sewer – Backup (Region)	-	-	Environmental Service staff investigate complaints of sewer backups. Findings are forwarded to the Region of Niagara as applicable.
Main Sewer – Odour (Grimsby)	1	-	Environmental Service staff investigate complaints of sewer odour using several methods, including area inspections.
Main Sewer – Backup (Grimsby)	2	1	Environmental Service staff investigate complaints of sewer backups using several methods, including area inspections. Flushing is completed where blockages are found in the Grimsby main sewer network.
Main Sewer – Other (Grimsby)	13	-	Environmental Services staff investigate complaints and complete repairs as necessary.

Summary of Alterations to the Authorized System

Table E summarizes the projects that saw alterations to the collection system. There were no authorized alterations to the Sanitary System in 2025.

Table E – Summary of Alterations to the Authorized System

Alteration to the Authorized System (Project Name)	Project Details	Does this Project Pose a Significant Drinking Water Threat (SDWT)?
N/A	N/A	N/A

Summary of Collection System Overflows and Spills

There were two (2) sanitary overflows, by-passes, or abnormal discharges from the collection system reported in 2025. There were three (3) spills related to cross-connections discovered through CCTV inspections in 2023, which have since been repaired in 2025.

Table F – Summary of Collection System Overflows or Spills of Sewage

Overflow or Spill Location	SAC Incident Number	Date	Volume (m ³) and Duration (Estimate)	Loadings (pH, TSS, BOD, TP, TKN, E. Coli)		Disinfection	Adverse Impacts / Corrective Actions
Fairview at Lakeside Overflow	1-0L0Z3M	2025-06-18	11 m ³ 55min	pH (SU)	7.96	N/A	Overflow occurred during rainfall event. Staff monitored volumes and reported to SAC and Public Health. Effluent samples were taken.
				BOD (mg/L)	< 60		
				TSS (mg/L)	56		
				TP (mg/L)	0.43		
				E. coli (mg/L)	29000		
Baker Road - Biggar Lagoon CSO SPS	250305-000014	2025-03-06	64 m ³ 40min	N/A		N/A	Overflow occurred during significant rainfall event. Region of Niagara informed Town of Grimsby, SAC and Public Health.
Single Residential Sewer Lateral	1-3V4XZQ	09-06-2023	48 years 12,465 m ³	N/A		N/A	Single residential sewer lateral was discovered to be connected to the Town's storm sewer system. Lateral(s) were re-routed to ensure proper connection to sanitary and storm mains as per Capital Project in 2025. SAC notified of corrective actions.

Overflow or Spill Location	SAC Incident Number	Date	Volume (m ³) and Duration (Estimate)	Loadings (pH, TSS, BOD, TP, TKN, E. Coli)	Disinfection	Adverse Impacts / Corrective Actions
Single Residential Sewer Lateral	N/A	09-06-2023	29 years 8,396 m ³	N/A	N/A	Single residential sewer lateral was discovered to be connected to the Town's storm sewer system. Lateral(s) were re-routed to ensure proper connection to sanitary and storm mains as per Capital Project in 2025. SAC notified of corrective actions.
Single Residential Sewer Lateral	1-4HL64S	11-13-2023	23 years 3,172 m ³	N/A	N/A	Single residential sewer lateral was discovered to be connected to the Town's storm sewer system. Lateral(s) were re-routed to ensure proper connection to sanitary and storm mains as per Capital Project in 2025. SAC notified of corrective actions.

Efforts to Reduce Overflows and Bypasses

Table G below summarizes the efforts made to reduce overflows, spills, and bypasses in 2025.

Table G – Summary of Efforts Made to Reduce Overflows, Spills and Bypasses

Overflow/Spill/Bypass Reduction Project	Project Description	Does this Project Pose a Significant Drinking Water Threat (SDWT)
I&I Reduction Program	See Table H	No

Baker Road Master Servicing Plan and Pollution Prevention Control Plan

In 2021 the Region of Niagara, in cooperation with Grimsby, Lincoln and West Lincoln, completed the Baker Road PPCP. The PPCP was completed as part of the Region's larger Master Servicing Plan (MSP) study, which was completed in 2023. The MSP is intended to support the community's growth, while meeting the Ministry of Environment Conservation and Parks (MECP) goals of the F-5-5 Procedure, to reduce combined sewer overflow pollution to the environment. The PPCP and MSP assessed both the existing and future state system performance to determine the nature, cause, and extent of issues, reviewed alternative solutions, and recommended a capital planning for the Region and the lower-tier municipalities.

Infiltration and Inflow Reduction

The PPCP and MSP included a remediation plan for Infiltration and Inflow (I&I). The remediation plan included recommendations for the lower-tier municipalities to carry out sewer flow monitoring and field investigations to

identify areas of the system with high I&I, and subsequently develop a plan to help reduce I&I.

In 2024, the Town of Grimsby continued the implementation of an I&I program to move forward on the recommendations of the PPCP and MSP. The program started with the Town completing mainline CCTV and sewer lateral inspections in within areas of the Grimsby Sanitary System which were identified as having higher instances of I & I. In 2024 a consultant was retained to complete a further investigation into the high I&I areas, which included an analysis of the results of CCTV and lateral inspections.

In 2025, the Town of Grimsby completed the Priority Area Inflow & Infiltration Investigation and Remediation Action Plan, which outlined the recommendations of infrastructure rehabilitation, including sewer lining rehabilitation, manhole repairs, and lateral repairs (majority of which are trenchless full-length lining, with some open cut replacements. In 2025, a contract was prepared and tendered for the open cut replacement of laterals identified for replacement. Work started on this scope in Q4 of 2025 and continuing into 2026. Table H outlines the various tasks which have/will be completed as part of the Town’s I&I reduction program.

Table H – Summary of Infiltration and Inflow Reduction Program Tasks

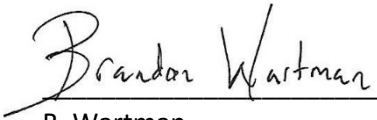
Program Title	Program Description	Status
CCTV Inspection - Drainage Area 5 & 7 (2022)	Inspection of mainline sewers, manholes and sewer service laterals (to property line) in areas identified with high I & I.	The project included the inspection of 15.5km of Sewer Mains, 225 Sewer Manholes, and 1,111 Sewer Lateral Connections.
I&I Reduction Study - Drainage Area 5 & 7 (2024)	The Town used the following investigation techniques to locate unwanted I&I in the identified areas: <ul style="list-style-type: none"> - Study area background review - Resident survey - Sewer flow monitoring - Infrastructure condition assessment - Study area drainage survey - Catch basin dye testing - Sewer smoke testing 	The following was completed in 2024: <ul style="list-style-type: none"> - Public Engagement - Field Investigation - Final Report including outcomes and remedial plan.
I&I Reduction Plan – Rehabilitation Efforts (2025)	The Town will utilize the findings of the I&I Reduction Study to create and tender a project for rehabilitation. The scope will include: <ul style="list-style-type: none"> - Service lateral lining/replacement - Mainline sewer lining/spot repairs - Manhole sealing 	The following was completed in 2025: <ul style="list-style-type: none"> - Contract Preparation/Tender - Partial Scope of Service Lateral Lining/Replacement (Open Cut)
I&I Reduction Plan – Rehabilitation Construction (2026 - 2027)	The Town will continue to tender projects identified for rehabilitation. Scope will include: <ul style="list-style-type: none"> - Completion of Service lateral lining/replacement - Mainline sewer lining/spot repairs - Manhole sealing 	Anticipated project schedule: <ul style="list-style-type: none"> - Open Cut replacement of remaining laterals (2026) - Tender remaining scopes of work (2026) - Complete Lining of Laterals not requiring Open Cut replacement (2027)

I&I Reduction Plan – Sewer Flow Monitoring (2028)	The Town will conduct sewer flow monitoring to evaluate the impact of the rehabilitation work.	Anticipated project schedule: <ul style="list-style-type: none"> - Tender (2028) - Completion (2028)
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Public Reporting

The Sanitary System Report will be communicated to the system owner (Council) and posted on the Town’s website and made available for public review (free of charge) at Town Hall.

Report Date: February 25, 2026



B. Wartman
 Director of Public Works