

Greenstone Stormwater Management System

ECA Number: 225-S701

Annual Performance Report

For the period: January 1, 2023 to December 31, 2024

Prepared by: Municipal Water Solutions Inc. For: The Municipality of Greenstone Date prepared: April 25, 2025

Questions about this report should be directed to:

Brian Aaltonen Director of Public Services

P 807-854-1100 ext. 2060 brian.aaltonen@greenstone.ca

1. Introduction

This report has been prepared for the Greenstone Stormwater Management System in accordance with the requirements outlined in Section E, Condition 5.2 of ECA Number 225-S701. It covers system activities between January 1, 2023, and December 31, 2024.

2. System Description

The Greenstone stormwater management system comprises five settlement areas, or wards, within the Municipality of Greenstone: Beardmore, Caramat, Geraldton, Longlac and Nakina. The stormwater system services residential lands, open space, commercial, light industrial and institutional properties. Stormwater flows are collected and conveyed by storm sewers, swales, ditches and culverts. There are no stormwater management facilities in the system. Storm system details for each ward are described below.

<u>Beardmore</u>

The storm network in Beardmore is roughly 80% swales, ditches and culverts and 20% piped. The main area serviced by storm pipes and catchbasins is along Highway 11, between John Road and Garnet Drive. The storm system discharges into Blackwater River via two piped outlets.

<u>Caramat</u>

The storm network in Caramat consists of swales, ditches, and culverts, without storm pipes or catch basins. Ditches eventually outlet to Caramat Lake and/or Durn Lake.

<u>Geraldton</u>

Most of the Geraldton stormwater system is piped, with some swales, ditches and culverts capturing stormwater along the outside streets. The storm network discharges to Hardrock Creek or Kenogamisis Lake via 13 piped outlets.

<u>Longlac</u>

The Longlac storm network is roughly 60% swales, ditches, and culverts and 40% piped. The main areas serviced by storm pipes and catchbasins include Forestry Road, Bayview Street, Court Street, Belleview Crescent, John Street, and Centennial Drive, north of Woodcrest Drive. Nine piped outlets discharge to Long Lake, Making Ground River, or Kenogami River.

<u>Nakina</u>

The storm network in Nakina is roughly 90% swales, ditches and culverts and 10% piped. The main area serviced by storm pipes and catchbasins runs along Algoma Street between North Avenue and Railway Avenue and extends on Railway Avenue between Main Street and Quebec Street. The piped system outlets to Howard Creek.

3. Monitoring Plan and Data

Once the Ministry of Environment, Conservation and Parks (MECP) publishes monitoring guidance, Schedule E, Condition 4.0 of ECA Number: 225-S701 requires the Municipality of Greenstone to develop and implement a monitoring plan for the stormwater management system.

As of the date of this report, the MECP has not published monitoring guidance. There is no data to interpret.

4. Environmental Trends

As of the date of this report, the MECP has not published monitoring guidance. There are no environmental trends to report.

5. Operations

During the reporting period, the Municipality performed routine inspection and maintenance activities in the stormwater system and any operating problems were addressed promptly to ensure the system performed as intended. However, a formal tracking program was not implemented, so limited information is available for this report.

The Municipality launched a formal inspection and maintenance program in 2025, which includes documentation requirements. The 2025 performance report will provide a more comprehensive summary of stormwater system inspection and maintenance activities.

Table 5.1 lists the inspection activities and frequencies established as part of the Municipality's inspection and maintenance program and includes a summary of the activities completed during the reporting period.

Asset	Required Frequency	% or Amount Completed	Comments	
Maintenance Holes - System	As needed	NA	Formal tracking started in 2025	
Maintenance Holes – Trouble Spots	2-3x/yr	NA	Formal tracking started in 2025	
Catchbasins	As needed	NA	Formal tracking started in 2025	
Catchbasins – Trouble Spots	2-3x/yr	NA	Formal tracking started in 2025	
Mainline Storm Sewers – CCTV	As needed	1500m	Completed prior to paving	
Mainline Storm Sewers – Visual Inspections	As needed	NA	Formal tracking started in 2025	
Swales/Ditches – Visual Inspections	As needed	NA	Formal tracking started in 2025	

Table 5.1: Summary of Inspection Activities

Storm Culverts – Visual Inspections	As needed	NA	Formal tracking started in 2025
Outlets	Annually	NA	Formal tracking started in 2025
Other	As needed	NA	Formal tracking started in 2025

Table 5.2 lists the maintenance activities completed and tracked during the reporting period.

Table 5.2: Summary of Maintenance Activities

Asset	Required Frequency	Amount Completed	Comments
Street Sweeping	Annual	91km	NA
Maintenance Holes – Lid resetting, parging etc.	As needed	14	Repair, reset and level
Mainline Sewers – Flushing	As needed	1600m	NA
Mainline Sewers – Replacement	As needed	94m	NA

6. Complaints

The Municipality received resident complaints about the stormwater system during the reporting period. Staff responded and addressed any issues promptly. However, a formal tracking program was not implemented, so limited information is available for this report.

The Municipality launched a formal complaint tracking system in 2025, and the 2025 performance report will provide a more comprehensive summary of complaints received. Table 6.1 summarizes the typical stormwater system complaints received during the reporting period and the actions taken to address them.

Table 6.1: Summary of Complaints

Complaint Type	Number Received	Actions Taken
Standing Water	Various	Thawed out catch basins to allow water to flow.
Flooding	Various	Thawed out catch basins to allow water to flow.
Maintenance Hole Concern	Various	Frozen (steam out to get flowing)

7. System Alterations

No system alterations were completed during the reporting period.

8. Spills or Abnormal Discharge Events

There were no spills or abnormal discharge events during the reporting period.

9. Performance Improvements

No performance improvements were made during the reporting period, and as this is the first annual performance report, there are no actions for the previous reporting year.

10. Additional Notes/Comments

There are several stormwater system projects and initiatives planned for 2025:

- Greenstone Council requested a Service Delivery Review report for the stormwater management system. This report will include staff recommendations for system operations and budget requirements to meet the Asset Management Plan recommendations and the CLI-ECA requirements. It was scheduled to be delivered to Council in March 2025. Updates will be included in the 2025 performance report.
- Removal and replacement of approximately 265m of storm sewer on Centennial Drive in Longlac, and approximately 100m of ditch outlet rehabilitation, to be completed by fall 2025.
- Completing a storm sewer catchment asset inventory by the regulated deadline (October 20, 2025). This includes locating all storm sewer outfalls and classifying the level of stormwater management for each storm sewershed.
- The Municipality will roll out the new stormwater operations and maintenance manual and implement the formal stormwater inspection and maintenance program in 2025. This will provide better activity tracking to demonstrate compliance with the CLI-ECA requirements and the time and effort needed to perform the required activities.