Municipality of Mississippi Mills

Stormwater Collection System Annual Performance Report

ECA # 178-S701

Roads and Public Works

Reporting Year: 2024

Revision: 0

Revision History

Revision Number	Date Issued	Description
0	April 30, 2025	Issued to MECP

Report prepared by: Zack Moshonas, Environmental Compliance Coordinator

Table of Contents

1. Compliance Overview

Compliance Event	# of Events
Ministry of the Environment Inspections	0
Ministry of Labour Inspections	0
Reportable Bypass/Overflows	0
Reportable Spills	0
Operating Issues	0
Customer Complaints	1

2. System Process/Description

The Municipal Stormwater Management (SWM) system serving the Municipality of Mississippi Mills drainage area, is a separate system for stormwater (i.e., designed to not convey sanitary sewage, combined sewage) within the following watersheds: Waba Creek, Lake Madawaska – Madawaska River, Cartwrights Creek – Mississippi River, Indian Creek, and Carlton Place Dam – Mississippi River. The Municipality's Roads and Public Works department is the Operating Authority (OA) for the system.

The Mississippi Mills SWM system comprises of approximately 43 km of stormwater pipe, 10 km of open channels, and several stormwater management facilities and outlets. The system covers areas in Almonte, Clayton, Pakenham, Blakeney, and Appleton. The SWM system is approved through a Consolidated Linear Infrastructure Environmental Compliance Approval (ECA) – number 178-S701 - from the Ministry of Environment, Conservation, and Parks under the Ontario Environmental Protection Act.

2.1 System Alterations

Table 2-1 below summarizes the three system alterations which were authorized in 2024. Two alterations were related to reconstruction of existing municipal infrastructure – construction and the subsequent verification was completed during 2024. One developer-initiated alteration was approved to extend existing infrastructure.

There were no alterations to system components, nor did any alterations require Directors Notification.

Table 2-1: Summary of System Alterations

Alteration Type	Project	Date Authorized	Project Status	Part V Verification Completed[1]	Significant Drinking Water Threat[2]
SW1 – Alteration for Storm Sewers / Ditches / Culvers	White Tail Ridge Development – Stormwater pipe extension and new ditch outlet (Developer Initiated)	April 16, 2024	Authorized Construction not complete	No	No
SW1 – Alteration for Storm Sewers / Ditches / Culvers	Reconstruction of Mercer Street and Marshall Street infrastructure (Municipally initiated)	May 13, 2024	Alteration completed in 2024	Yes	No
SW1 – Alteration for Storm Sewers / Ditches / Culvers	Reconstruction of Union Street North infrastructure (Municipally initiated)	March 12, 2024	Alteration completed in 2024	Yes	No

[1] Should Part V verification not be completed in the year in which it was authorized, it will be provided in the annual report in which it is completed.
[2] All alterations are screened using the *Mississippi Mills Significant Drinking Water Threat Assessment (2024)* document.

3. Monitoring

The ECA for the SWM system requires monitoring as outlined in Schedule E, Section 4.0. The Municipality will comply with the requirement to develop a Monitoring Plan in accordance with the ECA terms and conditions and the MECP's guidance document. At the time of this report, the MECP has not yet published the stormwater guidance document, therefore a monitoring plan has not been developed at this time.

In accordance with Section 4.1, the Municipality will develop a monitoring plan on or before August 14, 2024 (the date of which has passed), or within twenty-four months of the date of the publication of the Ministry's guidance document. The monitoring plan when developed will include a summary of all monitoring data along with interpretation of such data. A summary and interpretation of environmental trends based on the monitoring data will be included when the plan has been developed.

4. System Maintenance & QA/QC

In 2024, the Roads and Public Works department undertook the following tasks as part of routine operation and system maintenance:

- Catch basin inspections
- Wet/Dry pond visual inspections
- Annual catch basin cleaning program
- Manhole and catch basin adjustments
- Pipe outlet / ditch inlet visual inspections
- Stormwater sewer CCTV and cleaning program

The Municipality has no devices that require calibration as part of the SWM system.

In 2023 the Municipality developed a program which was approved by Council to undertake systematic inspections (CCTV) and cleaning of all stormwater sewers over a four year period beginning in 2024. This program will be in addition to the already implemented annual catch basin cleaning program which involves the cleaning of all catch basins in the system annually.

The 2024 program included flushing and CCTV inspection of all storm sewers in Quadrant 2 of the system (areas north of Ottawa Street). Some deficiencies were noted in the inspection process and will be addressed on a priority basis.

4.1 Reconstruction Projects

In 2024, the Municipality initiated capital projects to replace the stormwater, drinking water distribution, and sanitary sewer infrastructure Union Street North and Mercer/Marshall Street– the projects also included road reconstruction. The reconstruction projects included replacement of storm sewer pipes and appurtenances with similar size. An extension to existing infrastructure was made on the Mercer/Marshall Street project to address other stormwater concerns.

5. Complaint Management

In 2024 complaints received regarding the stormwater system were only during high precipitation events which after investigation the systems were all found to be operating as designed. One complaint was received in 2024 regarding a potential blockage of a rear-yard catch basin – staff found and removed a piece of silt fabric from the catch basin.

6. System Performance

Overall, the SWM system performs as designed. Extreme precipitation events over a short duration may have a perception of inadequate system performance, however in such instances additional time is required to transmit and manage stormwater effectively.

In 2024 there were no reportable overflows, spills, or abnormal discharge events.