

Stormwater Annual Performance Report

04/17/2024

Environmental Compliance Approval Number	037-S701
Name of Municipal Stormwater Management System	City of Sarnia Stormwater Collection System
Name of System Owner	The City of Sarnia
Period Reported	January 01, 2023 – December 31, 2023

Questions about the Report should be directed to:

City of Sarnia Environmental Services at
environmental.services@sarnia.ca

Brief Description of the System

The Municipal Stormwater Management (SWM) System serving the City of Sarnia's drainage area is a separate system for stormwater (i.e. designed not to convey sanitary sewage, combined sewage) within the Lake Huron and Northern Lake Erie watersheds. The Municipal SWM System consists of storm sewers, culverts, ditches, drains, Stormwater Management Facilities, and outlets.

Section 1: Monitoring Program Information

Section 2: Monitoring Results Analysis

Section 3: Interpretation of Environmental Trends

Section 4: Operations

Operational Problems Experienced

Facility	Date	Problem Encountered	Action Taken
SWM-01 D-2-C	07/11/2023	Wet Well inlet screen restricted	Cleaned out
SWM-01 D-2-C	09/28/2023	Wet Well inlet screen restricted	Cleaned out
SWM-01 D-2-C	10/19/2023	Wet Well inlet screen restricted	Cleaned out
SWM-02 Heritage Park	10/17/2023	Wet Well inlet plugged	Drain down pond and clean out inlet
SWM-04 Upper Canada	10/17/2023	Debris in discharge Channel	Cleared out
SWM-05 Blackwell Glen	08/22/2023	Shoreline Erosion	Maintenance Crew repaired edge with Clay fill
SWM-06 402 Business Park	07/18/2023	Pond outlet valve stem broken	Replaced valve Stem
SWM-07 Research Park	08/11/2023	Fallen trees in the ditch to pond restricting flow	Trees cut down and removed
SWM-08 Stone Hedge	08/11/2023	Tree growth on the banks of the dry pond	Trees cut down and removed

Inspections, Maintenance and Repairs

SWM Facilities are inspected and maintained as outlined in the Stormwater Management System Operations and Maintenance Manual. Equipment maintenance is scheduled as per manufacturers instructions and facilities are maintained to best practice standards.

Drainage system is maintained when a request is made under section 74 of the drainage act.

Calibration and Maintenance of Monitoring Equipment

Calibration and maintenance work for the system is organized by a maintenance management system (Cartegraph). Preventative maintenance is conducted as per equipment manufacturers recommendations. Incidental maintenance is managed by regularly scheduled inspections and recording needed repairs within the maintenance management system.

Section 5: Complaints

Summary of Complaints Received and Actions Taken

The City of Sarnia Stormwater Collection System received two complaints during the 2023 reporting period.

A resident requesting the City of Sarnia make alterations to SWM-05 Blackwell Glen SWM Wet Pond. Staff reached out to the resident and explained that the design of the ponds is dictated by operational parameters and can not be altered for aesthetic purposes.

A complaint was received for SWM-09 regarding algae buildup on the Pond, resident was concerned that there may be blue/green algae. Inspection was made and sample collected and taken to laboratory. Algae was not of any health concern to the public.

Section 6: Summary of Alterations to the System

Summary of all Alterations to the System

Alteration Type	Number of Alterations	Number of Alterations that Pose a Significant Drinking Water Threat
Pre-Authorized Storm Sewer, Ditch or Culvert		
Pre-Authorized Stormwater Management Facility		
Pre-Authorized Third Pipe		
Previously Approved Works		
Schedule C Works		

Significant Alterations

Provide a high-level overview of any major / significant alterations to the system (if any)

Section 7: Spills and Abnormal Discharge Events

Summary of Spills and Abnormal Discharge Events

The City of Sarnia Stormwater Management System did not have any reported spill/abnormal discharge events during the 2023 reporting period.

Section 8: Actions Taken to Improve or Correct Performance

Actions Take in Current Reporting Year

#	Issue	Actions to be Taken	Target Completion Date

Update on Actions from Previous Reporting Year

#	Issue	Update on Actions Taken	Target Completion Date

Section 9: Additional Notes / Comments

Additional Notes / Comments

This section can be used for anything that wouldn't fit in other sections of the report but would still be relevant in the context of reporting to the Ministry / public with respect to the stormwater system. For example, a brief description on progress toward developing or updating stormwater master plans or the status of planning for future alterations / significant expansions to the system.

Section 10: Making Available to the Public

Details on how the report can be accessed.

This section should describe how a copy of the report can be viewed or obtained by members of the public who are served by the system. Where the document is posted / will be posted on a website on the Internet, a hyperlink to the page or instructions on how to locate the file should be provided.