

# Stormwater Annual Performance Report

04/30/2025

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, 2024 – December 31, 2024

## 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	01/29/2024	Pump Station Inlet plugged	Grating cleaned out
SWM-01 D-2-C	07/18/2024	Pump Station Inlet Plugged	Grating cleaned out
SWM-01 D-2-C	11/27/2024	Pump Station Inlet Plugged	Grating cleaned out
SWM-05 Blackwell Glen	10/18/2024	Outlet obstruction restricting flow	Snake outlet pipe, restriction removed
SWM-09 Twin Lakes	08/07/2024	Remains of an old car discovered in SWM Pond	Car removed from the facility

### 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 manufacturer's 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 Stormwater Management System received two complaints in the 2024 reporting year. One complaint was regarding the SWM-05 Blackwell Glen stormwater management facility, a member of the public requested a change in the treatment system within the stormwater management pond. The other was at SWM-09 Twin

Lakes stormwater management facility, a member of the public voiced concern regarding the type of algae present in the North Pond of the facility.  
 In both cases City staff investigated the concern brought forward and discussed the issue with the residents who filed the complaint. No process related changes were necessary regarding complaints.

**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	3	0
Pre-Authorized Stormwater Management Facility	0	0
Pre-Authorized Third Pipe	0	0
Previously Approved Works	0	0
Schedule C Works	0	0

**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 2024 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
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1	SWM-05 Blackwell Glen shore erosion	Survey elevation of pond, riprap to be installed	2026
2	SWM-08 Stone Hedge: South bank built up with vegetation	Cut down trees, and clean up thick brush for access	10/18/2024 completed
3	SWM-06 402 Business Park: heavy vegetation growth in SWM facility	Vegetation growth to be cleaned out of site	Summer 2025

Update on Actions from Previous Reporting Year

#	Issue	Update on Actions Taken	Target Completion Date

**Section 9: Additional Notes / Comments**

Additional Notes / Comments

N/A

**Section 10: Making Available to the Public**

Details on how the report can be accessed.

A copy of this report can be viewed or obtained on the City's website under Environmental Services.