

Stormwater Annual Performance Report

04/30/2026

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, 2025 – December 31, 2025

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 Drain	April 14, 2025	Two sinkholes were discovered near an old pumping station chamber near the stormwater pond.	Fencing was installed to protect pedestrians. Vertex Consulting was retained and conducted ground penetrating radar to survey the sinkholes and no additional issues were discovered. The holes were then filled and no additional problems observed.

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 the following complaints/inquiries in the 2025 reporting year;

- July 4, 2025: An odour complaint was received for SWM-05 Blackwell Glen. City staff followed up with two site visits and did not detect any odours, but some algae growth in the pond. Staff tried to follow up with the resident several times but received no reply.
- August 15, 2025: An algae complaint for SWM-05 Blackwell Glen was received. City staff followed up with a site visit and removed as much of the algae as reasonably possible. Oxygen levels were tested and found to be within acceptable range (5.50 mg/L).
- August 17, 2025: An algae complaint for SWM-09 Twin Lakes was received. City staff followed up with a site visit and sent a sample of the algae for analysis which was confirmed not to be cyanobacteria.
- September 22, 2025: An inquiry regarding new signage installed at SWM-09 Twin Lakes was received. City staff called the resident back to explain the signage was a requirement under the CLI-ECA and that the City strongly discourages any fishing, skating, swimming, etc. at stormwater management facilities.

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	5	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

Combined sewer separation was undertaken in 4 areas during the 2025 reporting period:

- Nelson St and Water St
- Cobden St
- Wellington St
- Forsyth St and Essex St

The stormwater infrastructure was upsized in one general area during the 2025 reporting period:

- Mayfair Dr, Minto St, and Germain St

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 2025 reporting period.

Section 8: Actions Taken to Improve or Correct Performance

Actions Taken in Current Reporting Year

#	Issue	Actions to be Taken	Target Completion Date
1	SWM-01 D-2-C: inlet bar screen assembly requires repair	Stormwater management pond water level needs to be pumped down to complete repairs	Started June 24, 2025, target completion Summer 2026

Update on Actions from Previous Reporting Year

#	Issue	Update on Actions Taken	Target Completion Date
1	SWM-05 Blackwell Glen: shore erosion	No updates in 2025. Survey elevation of pond, riprap to be installed in 2026	2026
2	SWM-06 402 Business Park: heavy vegetation growth in SWM facility	Vegetation growth to be cleaned out of site, delayed until summer 2026	Summer 2025, extended until Summer 2026

Section 9: Additional Notes / Comments

Additional Notes / Comments

Signage was installed at all Stormwater Management Facilities according to specifications outlined in Schedule E, Condition 3.3 of the CLI-ECA.

An extension was approved (email confirmation received Jan 6, 2026) to extend the deadline for submission of the Stormwater Asset Inventory to Spring 2026 (Schedule E, Condition 9.1 of the CLI-ECA).

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.