



2024

Stormwater Annual Report

Town of St. Marys Stormwater Collection System

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1.0 Introduction



On February 2, 2023, the Town of St. Marys received its first municipal stormwater Consolidated Linear Infrastructure Environmental Compliance Approval (CLI ECA No. 056-S701). The new CLI ECA replaced the previous ECAs that the Ministry of Environment, Conservation and Parks (MECP) would issue for specific projects within the municipal stormwater collection system.

CLI ECAs are a single approval for all stormwater management systems and include conditions to authorize municipalities and prescribed persons, such as developers, to make changes to the stormwater management system when the specific requirements of the CLI ECA are met.

The Town's Stormwater Management System (SWM) is owned and operated by the Town of St. Marys. In accordance with the CLI-ECA (056-S701), Schedule E, Section 5.2, the Town, as the Owner of the Municipal Stormwater Management system is required to provide an annual report that covers the period from January 1st to December 31st for each year, and is required to submit the report to the MECP before April 30th of the following year. The annual SWM Report is also posted on the Town's official website (www.townofstmarys.com).

The Town of St. Marys stormwater management system is made up of many components and generally consists of the following:



2.0 Report Requirements

2.1 Monitoring Data

This Section provides a summary of all monitoring data, along with an interpretation of the data and an overview of the condition and operational performance of the Authorized System and any Adverse Effects on the Natural Environment. In accordance with the Town's CLI ECA, Schedule E, Section 4.0, the Town is required to implement a "Monitoring Plan" on or before July 25, 2024 or within twenty-four (24) months of the date of publication of the Ministry's monitoring guidance, whichever is later. At the time of this report, the MECP has yet to publish the guidance document. The Town's Monitoring Plan will be developed once the MECP guidance document becomes available.

There was no monitoring data available for the reporting period and no known adverse effects on the natural environment.

2.2 Environmental Trending

This Section provides an interpretation of environmental trends based on all monitoring information and data for the previous five (5) years.

There is no environmental trends related to the Authorized System for this reporting period. Environmental trending will be developed as the Town's monitoring program and data trending progress.

2.3 Operational Challenges and Corrective Action

This Section provides a summary of any operating problems encountered and corrective actions taken within the reporting period.

Please refer to **Appendix A-1** herein for a summary of items related to Stormwater Management Facilities within the Town of St. Marys.

Please refer to **Appendix A-2** herein for a summary of items related to the Stormwater Collection System within the Town of St. Marys.

2.4 Inspections, Maintenance and Repairs

This Section provides a summary of all inspections, maintenance and repairs carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Authorized System for the reporting period.

The Town completes a series of active and passive inspections of the stormwater management system that help to ensure system functionality, and that necessary maintenance items and subsequent repairs can be completed in a timely manner.

Please refer to **Appendix B** herein for a summary of items related to Inspections, Maintenance and Repairs completed within this reporting period.

2.5 Calibration and Maintenance of Equipment

This Section includes a summary of any calibrations and maintenance carried out on monitoring equipment for the reporting period.

There were no equipment or monitoring device calibrations completed during the reporting period.

2.6 Complaints

This Section provides a summary of complaints received during the reporting period as well as steps taken to address those complaints.

The Town receives various complaints related to stormwater flow, ponding, etc. throughout the year. Many of these complaints are in relation to private property and / or property standards issues. For the purposes of this report, only those complaints related to the Municipal stormwater management system conveyance pipes, ponds, ditches and / or swales are noted below.

Please refer to Appendix C herein for a summary of complaints received in the 2024 reporting period.

2.7 Alterations to the Authorized System

This Section provides a summary of all alterations to the Authorized System within the reporting period that are authorized by this approval, including a list of alterations that pose a significant drinking water threat.

There were no alterations to the authorized system during the reporting period.

2.8 Spills

This Section provides a summary of all spills or abnormal discharge events during the reporting period.

There were no known spills or abnormal discharges for the reporting period.

2.9 Performance Improvements


This Section includes a summary of actions taken, including timelines, to improve or correct performance of any aspect of the Authorized System.

There were no performance improvements to the authorized system during the reporting period.

2.10 Status of Action Items

This Section provides a status of action items from the previous reporting period.

There are no action items from the previous reporting period.

	Prepared By	Reviewed By
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Appendix A-1

Operational Challenges and Corrective Actions – Stormwater Management Facilities

Location Description	Operational Challenges	Corrective Actions
Thames Crest SWM Wetland	No Operational Challenges to Report	No Corrective Actions to Report
Thamesview Crescent SWM Dry Pond	<p><u>05.31.24:</u></p> <p>Resident contacted Town to report concerns over the function of the pond. Noted as holding water too long</p>	<p><u>06.17.24:</u></p> <p>Contractor repaired washout of bank beside outlet and replaced two small diameter culverts between the forebay and main pond that had collapsed. Clay imported to re-establish bank.</p> <p><u>08.09.24:</u></p> <p>Contractor repaired bank again due to further washout. Overflow rip/rap removed and reinstalled to eliminate sediment to encourage overflow events to occur in the proper location instead of the west bank of the pond. Repaired bank and hydroseeded to establish vegetation growth.</p>
Grand Trunk Countryside Estates OGS to SWM Wet Pond	<p><u>04.23.24:</u></p> <p>Concerns related to the functionality of the SWM Wet pond were raised by a resident. Suspected the outfall was plugged or partially plugged.</p>	<p><u>04.23.24:</u></p> <p>Staff attended the pond and completed targeted inspection. Pond was noted to be draining with no visible obstructions around the outlet feature. Was noted that water level has crept into normally dry areas of pond, but will continue to monitor.</p> <p>No corrective actions required.</p>
Westover Place OGS to SWM Dry Pond	No Operational Challenges to Report	No Corrective Actions to Report

Diamondridge Park Subdivision SWM Wet Pond	No Operational Challenges to Report	No Corrective Actions to Report
James Street Industrial Park (Enterprise Drive) SWM Wet Pond	<p><u>05.15.24:</u></p> <p>Routine inspection identified brush overgrowth near the inlet and outlet features. Regular Flow outfall structure (pipe) appears to be blocked.</p> <p><u>07.18.24:</u></p> <p>Stormwater pond outlet structure is partially blocked by buildup of debris on rodent grate.</p>	<p><u>07.09.25</u></p> <p>Overgrowth removed around inlet, outlet features and regular flow outlet pipe cleared with 20 tonne excavator and 2x6 board used to dislodge and clear obstruction</p> <p><u>11.07.24:</u></p> <p>Rodent grate cleared of debris and section of vegetation cleared in ditch to limit additional accumulation of materials.</p>
Meadowridge Subdivision North SWM Dry Pond	No Operational Challenges to Report	No Corrective Actions to Report
Meadowridge Subdivision South SWM Wet Pond	No Operational Challenges to Report	No Corrective Actions to Report
Stoneridge Subdivision Phase 2 SWM Wet Pond	No Operational Challenges to Report	No Corrective Actions to Report
Parkhaven SWM Dry Pond	<p><u>06.20.24:</u></p> <p>Inspection of dry pond facility identified excessive vegetation growth at facility outfall.</p>	<p><u>07.08.24:</u></p> <p>Contractor hired to remove excessive vegetation and sedimentation from outlet vicinity.</p>
South Service Road SWM Wet Pond	No Operational Challenges to Report	No Corrective Actions to Report

Appendix A-2

Operational Challenges and Corrective Actions – Stormwater Collection System

Location Description	Operational Challenges	Corrective Actions
Dana Culvert 500 James Street South	<u>06.20.24:</u> Potential culvert collapse at northerly driveway entrance to 500 James Street South.	07.2024: Vegetation removed from north side of culvert to allow for improved inspection. CCTV completed on section of culvert, no issues identified. No further action required.
Southvale Road Stormwater collection	Basement flooding during high precipitation events occurred in area.	Stormwater collection system was flushed and camera inspected by third party contractor to ensure system functionality was in tact. Sedimentation deposits were identified and removed that were restricting flow within sections of the pipe.
Highland Court Stormwater Collection	Basement flooding during high precipitation events occurred in area.	Stormwater collection system was flushed and camera inspected by third party contractor to ensure system functionality was in tact.
114 Ingersoll Street, St. Marys, ON	32" CSP bottom noted to have rotted out.	Replacement and / or lining of pipe to be completed. Capital project to be completed in 2025.
Waghorn Municipal Drain	Operational challenges were encountered with the Waghorn Municipal Drain on Huron Street North at the intersection of Widder Street East in St. Marys periodically through the reporting period. Debris from storm events would collect within the drain channel and under road culverts that can lead to flow restrictions.	Public Works staff monitor this section of the municipal drain on a periodic basis and will remove debris build up within the channel path or culverts as required.

<p>Flooding Event – Various Locations</p>	<p><u>06.20.24:</u></p> <p>Significant precipitation event occurred over two (2) periods throughout the evening and night. Flooding occurred at various locations around Town as collection system capacity was exceeded.</p>	<p><u>06.20.24:</u></p> <p><u>772 Queen Street East:</u></p> <p>Ditch and culvert plugged due to excessive run-off and scouring. Caused road flooding and property flooding in the area. Significant scouring of gravel shoulder. Significant water coming from farm field southeast of Queen/Rd120 intersection that overwhelmed culvert and ditch and came out onto road in front of 940 Queen Street East. Garbage including rubber mat and signs were washed up against DICB. water washed out onto road and down towards Industrial Road. Significant sediment from farm field came to rest half way down Industrial road. Appears water made its way up against 772 Queen Street East north wall. Repairs required to gravel shoulders with gravel to be removed from properties on north side of road and ditch on south side of road.</p> <p><u>505 James Street South:</u></p> <p>significant corn stock coming from field to the SE of the Enterprise/James St. intersection. corn stocks covered and plugged catch basins in the area (both private and within road allowance). overtopped road and piled up against fence at 585 James Street South. Fence was knocked down and ditch was filled with corn stocks. need to remove debris from front yard of old Solis building and from within ditch</p> <p><u>Southvale Road:</u></p>

		Water into multiple basements through stormwater PDCs. Believe STM system capacity exceeded during rainfall events.
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Appendix B

Inspections, Maintenance and Repairs

Location Description	Operational Challenges	Corrective Actions
Queen Street East Ditching (North Side)	08.28.24: Ditch sedimentation noted causing inadequate control of stormwater during high precipitation events.	08.28.24: Ditching completed from CB to hardware store parking lot and improved road shoulder to allow improvement to shed water and repaired scoured area of shoulder. Hydroseeding of disturbed area completed 08.30.24.
Queen Street East Ditching (South Side)	Significant ditch scouring occurred due to significant precipitation events causing blockages and flooding.	Ditch was rebuild from Road 120 to enclosed storm sewer complete with check dams, rip rap and energy break features to slow water down during high precipitation events. Fabric matting used and hydro seeding applied to promote vegetation regrowth and protection.
Various Locations across stormwater collection system	All catch basins within the stormwater collection system are cleaned as part of an annual maintenance program. This work is completed by an external hydrovac company each fall to ensure catch basins, and associated sump pits are free and clear of obstructions .	Catch basin cleaning was completed in November.

Appendix C

Complaints

Location Description	Operational Challenges	Corrective Actions
Industrial Road Storm Sewer Outfall	<p><u>09.10.24:</u></p> <p>Concern received from a resident regarding discharge quality from Industrial road storm sewer into Birches Creek. Inspection of outfall identified stagnant water within Birches Creek due to a partial blockage of Birches Creek by sedimentation and rip/rap stone that had been relocated by recent heavy rains. Asphalt granules had been deposited on the bottom of the outfall causing a black appearance.</p>	<p><u>09.12.25:</u></p> <p>Rip Rap stones were relocated to the base of the outfall and small sedimentation removed to promote improved stream flow. Flushing of Industrial road storm sewer to outfall was undertaken with no obstructions or visual indications of impacts.</p>
590 Widder Street East, St. Marys, ON	<p><u>07.16.24:</u></p> <p>Received a call from resident that ditch along the north side of Widder Street East was receiving excessive runoff during high rain events and causing road flooding.</p>	<p><u>07.16.24:</u></p> <p>Inspection of the ditch completed. Ditch cleaning required to regrade area and remove excessive sedimentation and vegetation.</p> <p>Ditching completed November 2024. Will continue to monitor for suitable function.</p>
505 James Street South, St. Marys, ON	<p><u>07.15.24:</u></p> <p>Property flooding experienced between 505 and 515 James Street South. Owner(s) would like to see something done to help mitigate future issues.</p>	<p><u>07.15.24:</u></p> <p>Area inspection believes that debris accumulation at the outlet grating on Enterprise drive restricted flow during intense precipitation that backed up the storm system to the east overflowing into the parking areas at 505 and 515 James Street South</p>

		<p>History provided by Owner was that the Town installed the stm pipe from the open ditch to the east of his property to James Street south as part of historical site improvements and developments.</p> <p>See Appendix A-1 for additional maintenance efforts undertaken on the area Stormwater System.</p>
359 James Street South, St. Marys, ON	<p><u>07.15.24:</u></p> <p>Property owner representative stated that new property development to north of subject property was causing ponding / flooding of their property.</p>	<p><u>07.15.24:</u></p> <p>Inspection completed. Ponding occurs in low lying area of driveway. Sidewalks are yet to be completed and would be graded in a way to help alleviate excessive run off from channelling into driveway.</p>
39 Highland Court, St. Marys, ON	<p><u>07.10.24:</u></p> <p>Owner advised that during the last major rainfall event, several houses had water in their basements. Wondered about functionality of the stormwater collection system.</p>	<p><u>07.31.24:</u></p> <p>Storm sewer flushing completed by Town staff. Minimal debris found and removed.</p> <p>CCTV inspection completed by contractor. No indication of blockages or debris accumulation.</p>