

# 2024 Annual Performance Report

## Peel Regional Road Stormwater Management System

**Environmental Compliance Approval (#009-S701)**

**Prepared by: Infrastructure Programming, Transportation Division, Peel Region**

*For any inquiries related to the information contained in this report, please call 905-791-7800 or email [Program Manager, Asset Management, Transportation](#)*

<b>ENVIRONMENTAL COMPLIANCE APPROVAL</b>	<b>ECA Number:</b> 009-S701, Issue No. 4
<b>System Owner:</b> Regional Municipality of Peel	
<b>System Name:</b> Peel Regional Road Stormwater Management System	
<b>Reporting Period:</b> 2024	
<b>Submitted to:</b> Director, Ministry of the Environment, Conservation and Parks (MECP)	<b>Report Date:</b> June 12, 2025

## Table of Contents

OVERVIEW .....	1
REPORTING – ANNUAL PERFORMANCE .....	1
A. Reporting Period (SEC. 5.2.1) .....	1
B. System Condition and Performance (Sec. 5.2.2) .....	1
C. Environmental Trends – Previous 5 Years (Sec. 5.2.3) .....	2
D. Operations Summary (Sec. 5.2.4) .....	2
E. Inspection and Maintenance Details (Section 5.2.5) .....	3
F. Monitoring Equipment (Sec. 5.2.6) .....	4
G. Public Complaints Summary (Sec. 5.2.7) .....	4
H. Alterations to the Authorized System Summary (Sec. 5.2.8) .....	4
I. Spills or Discharge Events Summary (Sec. 5.2.9) .....	5
J. Summary of Actions Taken and Proposed Improvements (5.2.10) .....	5
K. Status of Previously Reported Actions (Sec. 5.2.11) .....	6

## OVERVIEW

This report has been prepared in fulfillment of the requirement under Peel's Consolidated Linear Infrastructure Environment Compliance Approval (CLI ECA) # 009-S701, to submit an annual performance report to the Ministry of Environment, Conservation and Parks (MECP) summarizing the status of the stormwater system listed in the CLI ECA.

## REPORTING – ANNUAL PERFORMANCE

### A. Reporting Period (SEC. 5.2.1)

January 1<sup>st</sup>, 2024 to December 31<sup>st</sup>, 2024

### B. System Condition and Performance (Sec. 5.2.2)

#### System Conditions

The Stormwater Management Systems portfolio is comprised of storm sewers, culverts, ditches, outlets, and stormwater management facilities which includes LID facilities (Low Impact Development), stormwater management ponds, pumping stations, and manufactured treatment devices (MTD).

The overall condition of Peel's Stormwater Management System can be described, at the end of 2024, as in a "**good state**", meaning most assets in the portfolio are achieving the desired targets. This rating is a cumulation of the condition assessments performed on Peel's Stormwater Collection System and Stormwater Management Facilities (**see Table 1.**)

**Table 1 – Summary of Stormwater Management System (2024)**

System	Condition
Stormwater Management Ponds	Poor State
Manufactured Treatment Devices	Fair State
Storm Sewers	Good State
Stormwater Pumping Stations	Very Good State

Overall performance and condition of the LID facilities and stormwater management ponds is provided through detailed annual inspections to visually identify performance or major functional issues. For 2023, 86% of the LID facilities and stormwater management ponds inspected required interventions on at least one asset within the treatment train to ensure their continued performance.

Overall performance of the stormwater collection system (i.e. sewers/pipes) has been defined as the percentage of inspected sewers with major blockages. Major blockages are those typically with obstructions of more than 30% of the inner pipe diameter. For 2024, major blockages were identified in 0.33% of storm sewers.

### C. Environmental Trends – Previous 5 Years (Sec. 5.2.3)

Not applicable

### D. Operations Summary (Sec. 5.2.4)

Based on Peel's Inspection and Maintenance Program, stormwater assets are inspected at certain frequencies. **See Table 2.**

**Table 2 - Summary of Inspection and Maintenance Program Frequencies**

Operating Program/Activity	Frequency
Close-circuit Television (CCTV) Inspections	Every 10 years
Sewer Cleaning/Flushing	Per Inspection (based on inspection results)
Manufactured Treatment Device Inspections	Annually or every 3 years
Manufactured Treatment Device Cleaning	Per Inspection (based on inspection results)
LID Facility and Stormwater Management Pond Inspections	Annually
LID Facility and Stormwater Management Pond Operations and Maintenance	Per Inspection (based on inspection results)
Catch Basin Cleaning	Once every 3 years
Spills Inspection & Response	As needed
Street Sweeping	Seasonal (spring and fall)
<b>Pumping Stations – Finch Avenue and Four Corners of Malton</b>	
Station Inspection	Weekly
Generator Testing	Monthly
Wet Well Cleaning	Monthly
<b>Pumping Stations – Finch Avenue and Four Corners of Malton (continued)</b>	
Building Maintenance	Monthly
Valve Inspection	Annually
Thermographic Inspection	Annually
Lift Equipment Inspection	Annually
Generator Load Testing	Annually
ESA Inspection	Annually
MCC Maintenance\Cleaning	Annually

Operating Program/Activity	Frequency
SCADA Testing	Annually
Sump Pump Inspection	Monthly
QAQC Inspection	Semi-Annually
Valve Inspection	Annually
Pump Inspection	Annually
Flow Meter Calibration	Annually
Pump Chambers	Annually

## E. Inspection and Maintenance Details (Section 5.2.5)

Peel performs inspections on the stormwater assets to gather information on the asset's condition, identify any deficiencies and to plan for any future State of Good Repairs (SOGR) as shown in **Table 3, Table 4 and Table 5.**

**Table 3 - Summary of Stormwater Management Inspection Program Quantities.**

Inspection Program/Activity	# of Work Orders/Works Completed	Length (km)
CCTV Sewer Inspections	1	0.56
Maintenance Hole Inspections	1	-
LID Facility and Stormwater Management Pond Inspections	12	-
Manufactured Treatment Device Inspections	97	-
Minor Culvert Inspections	4	15.39
Outlet Inspections	41	-

**Table 4 – Summary of Work Orders Completed by the Maintenance and Repair Program**

Maintenance Program/Activity	# of Work Orders/Works Completed	Length (km)
Catch basin/ Maintenance Hole Repair	133	-
Catch Basin Cleaning	2,399	-
Storm Sewer Flushing	2	0.89
Minor Culvert Maintenance	183	-
Minor Culvert Flushing	44	-
Ditch Maintenance	43	-
Manufactured Treatment Device Cleaning	43	-
Minor Culvert Replacement	3	-
Storm Sewer Repair	32	-

**Table 5 – Summary of Pumping Station Maintenance and Repair Program**

Activity	Hours
Capital Rehabilitation	-
Inspections	116
Preventative Maintenance	205
Emergency Maintenance	14
Corrective Maintenance	43
<b>Total hours</b>	<b>378</b>

## F. Monitoring Equipment (Sec. 5.2.6)

Not applicable.

## G. Public Complaints Summary (Sec. 5.2.7)

Peel receives stormwater complaints from residents/customers through Peel's Customer Contact Centre. Calls are received then forwarded to the appropriate staff. All complaints are responded to within 2 business days of receipt except for emergency calls/complaints, which are responded to immediately upon receipt. See **Table 6** for a summary of Public Complaints received by Peel Region for this reporting period.

**Table 6 – Summary of Public Complaints**

Complaint Type	Total
Blocked Catch Basin	3
Ditching Issues	7
Drainage/Flooding	15
Culvert Entrance Issues	8
Washouts	4
<b>Total number of SWM complaints</b>	<b>37</b>

## H. Alterations to the Authorized System Summary (Sec. 5.2.8)

Alterations to the authorized Stormwater System are summarized in **Table 7** below.

**Table 7 – Summary of Stormwater Facilities Added to System Inventory (Transition to CLI-ECA)**

Description	Project Type	Stormwater Alterations	Form Completed	Form Date	Rationale
Low Impact Development (LID) retrofit on Erin Mills Parkway between Highway 403 and Burnhamthorpe Rd	Storm Improvement	<ul style="list-style-type: none"> <li>Installation of oil and grit separator (OGS)</li> <li>Installation of Stormtech infiltration chambers</li> </ul>	Director Notification	2025/06/30	Discovery of existing works

## I. Spills or Discharge Events Summary (Sec. 5.2.9)

Peel's Environmental Control group is responsible for the administration and enforcement of the water, wastewater and backflow bylaws. Environmental Inspectors from Peel's Environmental Control group inspect and investigate reported spills received through Peel's Customer Contact Centre. **Table 8** below summarizes spills that occurred Peel's spills response for 2024.

**Table 8 – Summary of Spills**

Spills/Abnormal Discharge	Total
Reported events	90
Spills Inspections/Investigations	129

## J. Summary of Actions Taken and Proposed Improvements (5.2.10)

Through Peel's condition assessment and inspection programs, the Infrastructure Programming group identifies projects to improve the condition and performance of the existing Stormwater Management System including rehabilitation, replacement, and capacity improvements. See **Table 9** for a summary of actions taken and proposed to improve the authorized system.

**Table 9 – Summary of Action Taken to Improve/Correct Performance of Authorized System**

Corrective Actions Taken and Proposed	Anticipated Completion	Project Status	System
Professional Services for Storm Sewer Flushing, Inspection and Condition Assessment	-	Continuous	Storm Sewers
Trenchless Technology Rehabilitation – Relining and Spot Repairs	-	Continuous	Storm Sewers
Olde Base Line Roadside Drainage Improvements	2025	Detailed Design	Storm Sewers
Airport Rd Storm Outlet Retrofit	2025	Detailed Design	Storm Sewers
Outfall Improvements	2026	Planning	Storm Sewers
Drainage Improvements of Highway 50 from Mayfield Road to Healey Road	2027	Detailed Design	Storm Sewers Stormwater Management Facilities
Mayfield - Heart Lake to Hurontario Road Widening – Includes existing storm facility improvements	2031	Detailed Design	Storm Sewers Stormwater Management Facilities



K. Status of Previously Reported Actions (Sec. 5.2.11)

**Table 10 – Summary of Completed Actions**

Corrective Actions Taken and Proposed	Purpose	System	Substantial Completion
Low Impact Development (LID) retrofit on Erin Mills Parkway between Highway 403 and Burnhamthorpe Rd	<ul style="list-style-type: none"><li>• Mitigate runoff</li><li>• Improve stormwater quality</li></ul>	Stormwater Management Facility	2024