2025 Consolidated Linear Infrastructure Environmental Compliance Approval Annual Performance Report – Stormwater Management System

DURHAM REGION

The Regional Municipality of Durham
2025 Consolidated Linear Infrastructure Environmental Compliance Approval Annual Performance Report – Stormwater Management System

Environmental Compliance Approval (ECA): 003-S701 Dated December 19th, 2024

Executive Summary

Section 5.2 of the Consolidated Linear Infrastructure Environmental Compliance Approval (CLI ECA) number 003-S701 requires the owner to prepare an annual performance report to cover the period from January 1 to December 31 of the preceding year. The CLI ECA Annual Performance Report provides staff, stakeholders, and customers a performance overview of the Stormwater Management System. Further, this report fulfills the annual reporting requirements of the Ontario Ministry of the Environment, Conservation and Parks (MECP).

The Municipal Stormwater Management (SWM) System serving the Regional Municipality of Durham's drainage area is a separate system for stormwater (i.e. designed not to convey sanitary sewage or combined sewage) within the Lake Simcoe, Pefferlaw River, Beaver River, Nonquon River, Lake Scugog-Scugog River, Duffins Creek, Bowmanville Creek, Ganaraska River, Cavan Creek, East Cross Creek, Lake Ontario and Mariposa Brook watersheds. The Municipal SWM System consists of storm sewers, culverts, ditches, Stormwater Management Facilities and outlets. This ECA covers the entire Municipal SWM System owned and operated by the Regional Municipality of Durham. This ECA does not cover municipally, or privately owned sewage works on industrial or commercial land.

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1 Purpose & Description of the Works

Stormwater is water from precipitation such as snow or rain that flows over land surfaces such as roads, parking lots, and rooftops. A Stormwater Management System helps reintroduce the stormwater back into the natural environment in a safe and environmentally conscious method. The Regional Municipality of Durham (the Region) owns and operates approximately 321 kilometers of storm sewers, 2 filtration units, 78 oil and grit separators, 8,866 catch basins, and 1,304 non-structural culverts. The Region has a separate collection system for sanitary sewage thus, no combined sewers. Stormwater conveyed through Region owned infrastructure is then discharged into infrastructure owned by a lower tier municipality or through outlets that discharge into the environment.

2 System Performance

Under Condition 5.2 of ECA 003-S701 the Region must produce an annual performance report that contains the following information:

2.1 Includes 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 (5.2.2)

The 2025 annual report does not include a summary of monitoring data. Section 4.1, schedule E, refers to a monitoring program that must be developed by Dec 31 2026 or within 24 months of the date of publication of the Ministry's monitoring guidance document, whichever is later. The development of a monitoring program will be created after the release of the MECP guidance document for monitoring.

2.2 Includes a summary of and interpretation of environmental trends based on all monitoring information and data for the previous five years (5.2.3)

The 2025 annual report does not include a summary or interpretation of environmental trends. Once the MECP's monitoring guidance document is released, a monitoring plan is required and will be utilized to collect local data to support an informed interpretation.

2.3 Includes a summary of any operating problems encountered and corrective actions taken (5.2.4)

There were no operating problems in the Region's Stormwater Management System in 2025.

2.4 Includes 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 (5.2.5)

Maintenance of the stormwater collection system is performed by the Regional Municipality of Durham's maintenance operations division. See Appendix 1 for a summary of all oil and grit separator inspections. A total of 239 maintenance activities were performed in 2025. There were 4 culvert installations and 74 culvert repairs, 12 curb and gutter repairs, 40 catch basin inspections, 16 catch basin cleanings and 93 catch basin repairs. A breakdown of the maintenance categories can be found in Figure 1 below.

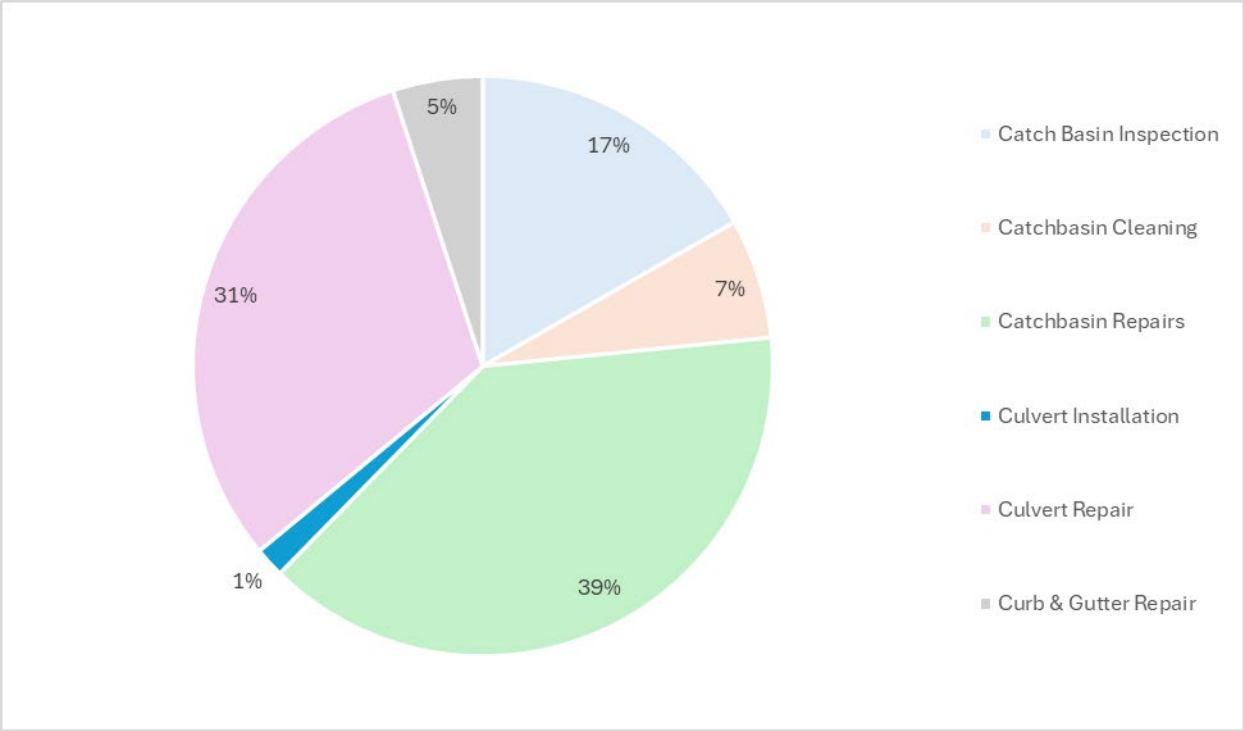

Figure 1 - Stormwater Collection System Maintenance

2.5 Includes a summary of the calibration and maintenance carried out on all monitoring equipment (5.2.6)

There is no monitoring equipment in the stormwater system.

2.6 Includes a summary of any complaints related to the Sewage Works received during the reporting period and any steps taken to address the complaints (5.2.7)

Complaints related to the Stormwater Management System were received by the Regional Municipality of Durham's centralized customer service contact centre and maintenance operations division. A total of 61 service requests were received from the public. A breakdown of the complaints received can be found in Figure 2 below. Culvert repairs, curb and gutter repairs and catch basin inspections, cleaning and repairs are all investigated and remedied when applicable by maintenance operations staff.

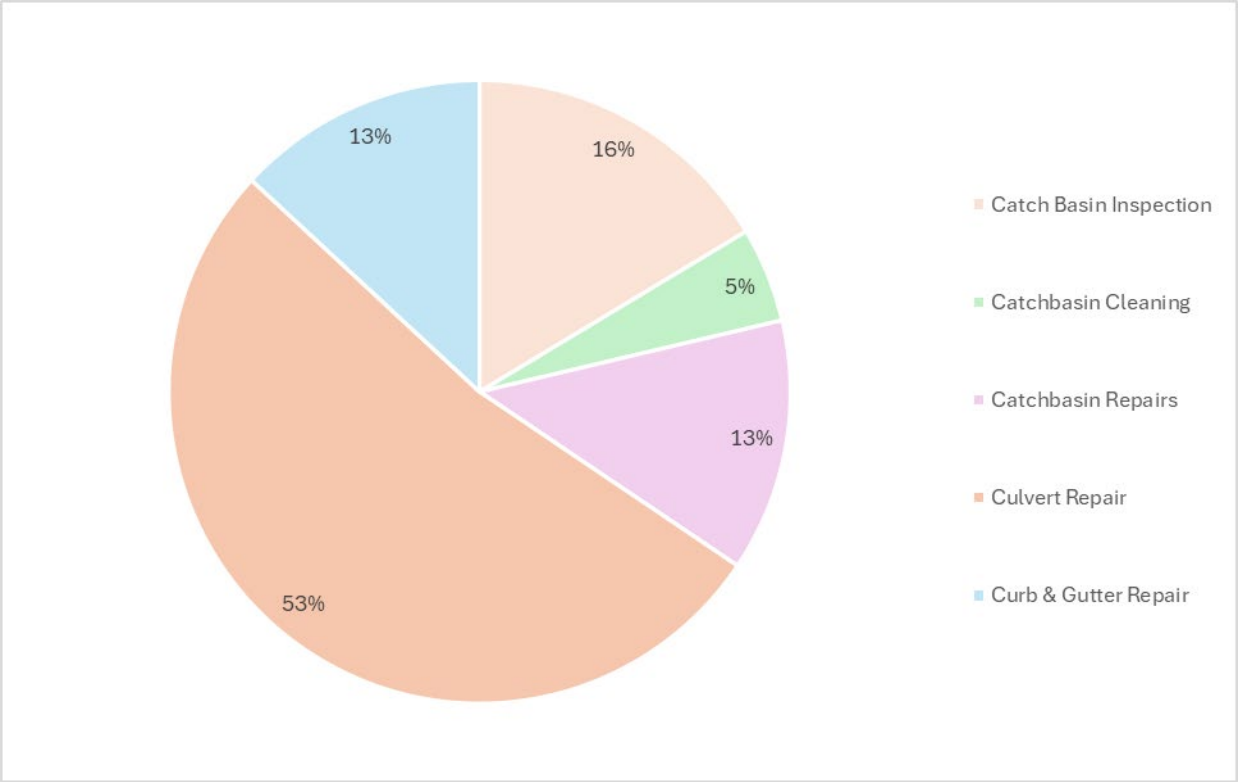

Figure 2 - Stormwater Collection System Complaints

2.7 Includes 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 (5.2.8)

No projects were completed in 2025 under this ECA.

2.8 Includes a summary of all spills or abnormal discharge events (5.2.9)

There were no spills or abnormal discharge events in 2025.

2.9 Includes a summary of actions taken, including timelines, to improve or correct performance of any aspect of the Authorized System (5.2.10)

Not Applicable

2.10 Includes a summary of the status of actions for the previous reporting year (5.2.11)

Not Applicable

Appendix 1

Table 1 – Oil Grit Separator Inspection Summary

Date	OGS No.	Municipality	Inspection Summary	Corrective Actions
07/18/2025	STMH-H6-0205	Pickering	No obstruction in inlet and outlet side. Water level at outlet invert. Accumulation of grit and sediment in inlet chamber exceeds cleanout limit by 13cm.	No service required.
07/18/2025	STMH-05-0002	Pickering	No obstruction in inlet and outlet side. Water level at outlet invert. Construction nearby to OGS. Accumulation of grit and sediment exceeds cleanout limit by 63cm.	Service Required.
10/04/2024	STMH-G2-0010	Pickering	No obstruction in inlet and outlet side. Water level at outlet invert.	Unit functioning properly. Next inspection is recommended in the spring 2026.
07/18/2025	STMH-G2-0015	Pickering	No obstruction in inlet and outlet side. Water level at outlet invert.	OGS functioning properly. Next inspection is recommended in fall 2026.
07/18/2025	STMH-G3-0033	Pickering	No obstruction in inlet and outlet side. Water level at outlet invert. Accumulation of grit and sediment in inlet chamber exceeds cleanout limit by 2cm.	Service Required.
07/18/2025	STMH-G4-0151	Pickering	No obstruction in inlet and outlet side. Water level at outlet invert.	OGS functioning properly. Next inspection is recommended in fall 2026.
07/18/2025	STMH-G15-0032	Ajax	Accumulation of sediment in discharge outlet pipe (Figure 8) obstructing outlet flow. Water level is 16cm above west outlet invert, water still flows to treatment.	No service required. Riprap cleanout is recommended.
07/17/2025	STMH-G16-0005	Ajax	No obstruction in inlet and outlet side. Water level at outlet invert.	Unit functioning properly. Next inspection is recommended in the spring 2026.

07/18/2025	STMH-H2-0012	Ajax	No obstruction in inlet and outlet side. Water level at outlet invert.	OGS functioning properly. Next inspection is recommended in summer 2026.
07/18/2025	STMH-H2-0017	Ajax	No obstruction in inlet and outlet side. Water level at outlet invert.	OGS functioning properly. Next inspection is recommended in summer 2026.
07/18/2025	STMH-H6-0212	Pickering	No inspection and cleanout access to inner chamber. Accumulation of grit and sediment in Outlet Chamber is 150 mm.	Next inspection is recommended in summer 2026.
07/18/2025	STMH-H7-0034	Pickering	No obstruction in inlet and outlet side. Water level at outlet invert. Accumulation of grit and sediment in inlet chamber exceeds cleanout limit by 33cm.	Service Required.
07/18/2025	STMH-H7-0042	Pickering	Accumulation of silt and floatables in inner chamber exceeds cleanout limit.	Accumulation of silt and floatables in inner chamber exceeds cleanout limit.
07/17/2025	STMH-I8-0064	Pickering	No obstruction on inlet and outlet side. Water level at outlet invert.	OGS functioning properly. Next inspection is recommended in fall 2026.
07/17/2025	STMH-I8-0067	Pickering	Unit functioning properly. No obstruction in inlet and outlet side. Water level at outlet invert.	Next inspection is recommended in the spring 2026.
07/17/2025	STMH-I9-0110	Pickering	No obstruction in inlet and outlet side. Water level at outlet invert. Higher presence of floatables.	Next inspection is recommended in fall 2026.
07/17/2025	STMH-I11-0061	Pickering	No obstruction in inlet and outlet side. Water level at outlet invert.	OGS works properly. Next inspection is recommended in fall 2026.
07/17/2025	STMH-I11-0425	Pickering	No obstruction in inlet and outlet side. Water level at outlet invert.	OGS functioning properly. Next inspection is recommended in summer 2026.
07/17/2025	STMH-I11-0429	Pickering	No obstruction in inlet and outlet side. Water level at outlet invert.	OGS works properly. Next inspection is recommended in fall 2026.

07/17/2025	STMH-I12-0244	Ajax	Stones in inlet panel. Water level at outlet invert.	Next inspection is recommended in fall 2026.
07/17/2025	STMH-I12-0253	Ajax	No obstruction in inlet and outlet side. Water level at outlet invert.	OGS works properly. Next inspection is recommended in fall 2026.
07/17/2025	STMH-I12-0256	Ajax	At inspection day (dry weather) water level was 12cm below outlet invert possible leakage under outlet pipe.	Next inspection is recommended in summer 2026.
07/17/2025	STMH-J12-0021	Ajax	No obstruction in inlet and outlet side. Water level at outlet invert.	OGS functioning properly. Next inspection is recommended in summer 2026.
07/17/2025	STMH-K12-0031	Ajax	No obstruction in inlet and outlet side. Water level at outlet invert.	OGS functioning properly. Next inspection is recommended in fall 2026.
07/17/2025	STMH-L9-0002	Pickering	Accumulation of sediment exceeds recommended silt depth limit by 80cm. At inspection day water level was 32cm above outlet invert, but water still got treated. Constant inflow water coming into unit.	Service Required.
07/17/2025	STMH-L10-0015	Pickering	No obstruction in inlet and outlet side. Water level at outlet invert.	OGS functioning properly. Next inspection is recommended in summer 2026.
07/17/2025	STMH-L10-0016	Pickering	No obstruction in inlet and outlet side. Water level at outlet invert.	OGS functioning properly. Next inspection is recommended in summer 2026.
07/17/2025	STMH-L11-0023	Pickering	No obstruction in inlet and outlet side. Water level at outlet invert.	OGS functioning properly. Next inspection is recommended in summer 2026.
07/17/2025	STMH-L12-0029	Pickering	No obstruction in inlet and outlet side. Water level at outlet invert.	OGS works properly. Next inspection is recommended in fall 2026.
08/19/2025	STMH-G23-0063	Whitby	No obstruction in inlet and outlet side. Water level at outlet invert.	Unit functioning properly. Next inspection is recommended in the summer 2026.

08/19/2025	STMH-G23-0008	Whitby	No obstruction in inlet and outlet side. Water level at outlet invert.	Unit functioning properly. Next inspection is recommended in the summer 2026.
08/19/2025	STMH-G24-0008	Whitby	No obstruction in inlet and outlet side. Water level at outlet invert.	Unit functioning properly. Next inspection is recommended in the summer 2026.
08/20/2025	STMH-J19-0026	Whitby	No obstruction in inlet and outlet side. Water level at outlet invert.	Unit functioning properly. Next inspection is recommended in the summer 2026.
08/20/2025	STMH-J19-0027	Whitby	No obstruction in inlet and outlet side. Water level at outlet invert.	Unit functioning properly. Next inspection is recommended in the summer 2026.
08/20/2025	STMH-K17-0004	Whitby	OGS is submerged conditions. Higher surrounding surface grade elevation on final discharge due to erosion, vegetation growth and/or engineering design. Water level at inspection day was 33cm above deck. Accumulation of grit and sediment in inlet exceeds cleanout limit by 24cm. Inspection was done 24 hours after rain.	Unit needs cleanout; sediment removal and filter cartridges needs to be rinsed.
08/20/2025	STMH-K17-0007	Whitby	One cartridge cover is displaced. Inspection was done 24hours after rain.	OGS functioning properly. Next inspection is recommended in summer 2026.
08/20/2025	STMH-K20-0023	Whitby	No obstruction in inlet and outlet side. Water level at outlet invert. Accumulation of grit and sediment in inner chamber exceeds cleanout limit by 33cm.	Service Required.
08/19/2025	STMH-K30-0013	Oshawa	Water level at outlet invert. Accumulation of grit and sediment exceeds cleanout limit by 94cm. Inlet chamber is full, blocked.	Service Required.

08/20/2025	STMH-L20-0046	Whitby	No obstruction in inlet and outlet side. Water level at outlet invert.	Service Required.
08/20/2025	STMH-L20-0047	Whitby	No obstruction in inlet and outlet side. Water level at outlet invert.	Unit functioning properly. Next inspection is recommended in the summer 2026.