



# **TOWN OF HALTON HILLS**

## **Consolidated Linear Infrastructure – Environmental Compliance Approval (CLI-ECA)**

### **Annual Stormwater Performance Report 2024**

Submitted to the Ministry of Environment, Conservation & Parks (MECP) on April 30, 2025

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## Overview

### Stormwater Annual Performance Report

April 30, 2025

Environmental Compliance Approval Number	328-S701 (Issue 1), issued on September 27, 2023
Name of Municipal Stormwater Management System	Town of Halton Hills
Name of System Owner	Town of Halton Hills
Period Reported	January 1, 2024 – December 31, 2024

#### Questions about the Report should be directed to:

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#### Brief Description of the System

At the end of 2024, the Municipal Stormwater Management (SWM) System consisted of more than 200 km of Storm Sewer Infrastructure (STM) and more than 20 km of open drainage conveyance swales and/or flood conveyance channels (FCC). It included 16 dry SWM ponds, 35 wet SWM ponds, 18 flood conveyance channels, 1 superpipe, 1 underground storage facility, 2 online flood storage areas, and many different types of Low Impact Development (LID) features including filter beds, bioswales, soakaway pits, permeable pavement, and a green roof. In addition, the system included 28 manufactured treatment devices, 27 of which are Oil-Grit Separator (OGS) units and 1 filtration device.

There are no combined systems in the Town of Halton Hills, although there are a few locations where the Region of Halton sanitary sewer (SAN) system has an overflow connection to the Town's storm infrastructure. The Town's storm sewer system is also connected to the Region of Halton and the Town of Milton STM systems at a few locations. In 2024, 0 km of roads were reclassified from rural to urban.

This CLI-ECA covers all infrastructure within the Town's ownership, including infrastructure with an approved ECA, historical ECAs in which the ownership was not officially transferred to the Town of Halton Hills, and infrastructure that pre-dated any approval requirements. Works that are privately owned or associated with a single commercial/industrial property are not included, as they are outside the scope covered by a CLI-ECA. This CLI-ECA does not cover communal works (i.e., installed in the Town of Halton Hills' municipal right-of-way but under the jurisdiction of an alternate municipality).

## Annual Reporting Requirements

As per Section 5.0 “Reporting” of Schedule E in the CLI-ECA Permit # 328-S701.

- The Owner shall, upon request, make all manuals, plans, records, data, procedures, and supporting documentation available to Ministry staff.
- The Owner shall prepare an annual performance report for the Authorized System that:
  - Is submitted to the Director **on or before April 30th** of each year and covers the period from January 1st to December 31st of the preceding calendar year.
    - a) For clarity, the first report shall cover the period of January 1, 2024, to December 31st, 2024, and be submitted to the Director on or before April 30th, 2025.

As per Section 7.0 “Review of this Approval” of Schedule E in the CLI-ECA Permit # 328-S701.

The Owner shall submit to the Director an application to have the Approval reviewed **no later than July 15, 2027**.

## **A. Summary of Monitoring Data**

According to Sec. 4 of Schedule E, the Town shall develop and implement a monitoring plan for the Authorized System on or before October 1, 2025, or within twenty-four (24) months of the date of the publication of the Ministry's monitoring guidance, whichever is later. At the time of publishing the 2024 Annual Report, the Ministry of Environment, Conservation and Parks has not released the required monitoring guidance.

## **B. Summary and Interpretation of Environmental Trends**

While no trends are available for the five years from January 1, 2019, to December 31, 2024, the Town is actively engaged in several environmentally oriented initiatives as follows:

1. A new Weather Station (Hornby) system was developed and installed in 2022-2024 to collect climate-related data, including continuous measurement of rain depth, stream flow, including depth and velocity, air temperature, and water temperature.
2. The Town runs an Annual Tree Planting program. In 2024, approximately 2335 trees were planted.

## C. Summary of Operating Problems Encountered and Corrective Actions

### Operational Problems Experienced

A few major deficiencies were identified through routine inspections, the outfall and ditching program. Typical maintenance issues, including debris blockage, beaver/muskrat nuisance activity, excessive vegetation growth, and siltation, were also noted. Debris, animals, dams/nesting, and excessive vegetation were removed in 2024 as part of the Operations and Maintenance work program. Maintenance activities are prioritized based on the severity of the issues identified and resourcing.

**Table 1. Summary of Recorded and Identified Major Issues**

Item #	Asset ID and location (including all associated assets)	Outlet ID	Watershed /Receiver details	Date of the operation system issues discovered	Operating systems issues description	Actions taken	Date when the issue was resolved
1	<b>A-02</b> West Meadows Ph II & II-	ST14264 ST06543 ST06600	Fairy Lake / Black Creek	Aug 2024	The pond is holding water due to a partially blocked outlet	Debris was removed from the outlet end	Dec 2024
2	<b>A-08</b> West Meadows Ph 3 Location: McDonald	ST12694	Fairy Lake/ Black Creek	Aug 2024	A beaver dam was partially blocking the outflow	The beaver dam was removed	Sept 2024
3	<b>G-04</b> Law Phase II Location: Munroe Circle	ST13807 ST02008	Silver Creek	Sept 2024	The pond is holding water due to the partially blocked outlet	Maintenance Scheduled	TBD
4	<b>G-06</b> Meadow Glen Location: Meadow Glen Boulevard	ST11101 ST12755	Credit River	Sept 2024	Minor silt buildup at the pond inlet, and the flow valve controls require servicing	Maintenance Scheduled	TBD
5	<b>R-04</b> Gordons Creek	ST14298	Beeney Creek/Black Creek	Aug 2024	Semi-seized valve. Ditches with sediment build-up	Maintenance Scheduled	TBD
6	<b>LID-A201</b> Commerz Cres.	ST06600	Black Creek	June 2023	Sediment buildup is impacting the function	Maintenance Scheduled	TBD
7	<b>FCC-02</b> Bovis Channel	N/A	Fairy Lake / Black Creek	June 2020	The active maintenance was stopped in 2020, the concrete-lined engineered channel is overgrown with vegetation	CVC is engaged to perform a feasibility study	TBD

## **D. Summary of Inspections, Maintenance, and Repairs**

There are multiple SWM-related programs and maintenance inspections at the Town of Halton Hills.

The Town has approximately 6100 catch basins (CBs) that are inspected and cleaned on a 4-year cycle, cleaning between 1500-1600 annually.

As part of a minor maintenance initiative, the Town has performed minor maintenance on 15 maintenance holes (MH) and CBs in 2024. The latter included isolated rebuilds and minor lateral repairs.

The Town commenced a comprehensive Inspection and Cleaning Program of all Manufactured Treatment Devices (MTD) in 2011. Each unit is inspected and cleaned annually by a qualified contractor. Inspections generate maintenance needs to inform the maintenance program, and are addressed on a priority basis.

The Town completes an Annual CCTV program to inspect storm sewer and identify repairs to be addressed through the Pavement Management Program and Capital Program.

The Town undertakes a road sweeping program to reduce TSS loads into the system.

Through the annual Pavement Management Program, storm infrastructure within the project area(s) is assessed and identified for replacement/repair as required.

As per Ontario Reg. 104/97 Standards for Bridges, under the Public Transportation and Highway Improvement Act, the Town of Halton Hills inspects all structures greater than 3m span through a biannual program under the direction of a professional engineer and in accordance with the Ontario Structure Inspection Manual, O. Reg 472/10 Sec. 2.

In addition, the Town performs annual inspections of road crossing culverts. Data collected from these inspections informs the repair and maintenance planning cycle.

In 2024, the Town installed new signage at all Town-assumed SWM ponds (or updated the existing signage) to meet the requirement of Sec. 3.3 Schedule E of the CLI-ECA.

The majority of the routine maintenance work associated with SWM infrastructure included beaver dam removals, debris clearing, and vegetation removal.

The results of the inspections, maintenance, and repairs of the SWM infrastructure are summarized in the Tables below:

**Table 2. Inspection Summary**

	<b>Total</b>	<b>Inspected in 2024</b>	<b>Issues Found</b>	<b>NOTES</b>
Ponds	<b>51*</b>	<b>51</b>	<b>5</b>	Vegetation overgrowth or silt build-up resulting in the outlet partial blockages, presence of nuisance animals, and mechanical control deficiencies (A-02, A-08, G-04, G-06, R-04)
LIDs	<b>26</b>	<b>1</b>	<b>1</b>	Sediment build-up in LID-A201
Superpipe, U/G Storage	<b>2</b>	<b>2</b>	<b>0</b>	1 as part of OSIMS (G11) and 1 as part of the OGS program (A9)
FCCs	<b>18*</b>	<b>1</b>	<b>1</b>	Silt, vegetation, and debris build up (Bovis Channel FCC-02)
OGS including Filtration	<b>28</b>	<b>28</b>	<b>0</b>	As part of the annual inspection program.
Pumping Station	<b>1</b>	<b>1</b>	<b>0</b>	No issues were noted
Third Pipe, km	<b>3.4</b>	<b>0</b>	<b>0</b>	N/A
Ditches and Swales, km	<b>26.31</b>	<b>0.3</b>	<b>0.3</b>	Silt build-up Gordons Creek R-04 (50% blocked)
STM, km	<b>219.58</b>	<b>3.79 km</b>	<b>0.14 km</b>	As part of the annual CCTV program.

**Table 3. Maintenance and Repair Summary**

	<b>Issue Founds</b>	<b>Maintained or repaired in 2024</b>	<b>NOTES</b>
Ponds	<b>5</b>	<b>2</b>	Maintenance was completed to restore ponds A-02, A-08.
LIDs	<b>1</b>	<b>0</b>	Scheduled for 2025.
Superpipe, U/G Storage	<b>0</b>	<b>0</b>	No maintenance was required.
FCCs	<b>1</b>	<b>0</b>	CVC is engaged to perform a feasibility study.
OGS including Filtration	<b>0</b>	<b>1</b>	Swirling chamber disconnection from the concrete chamber bottom was identified in 2023. Repairs were completed in 2024 as part of the annual maintenance program.
Pumping Station	<b>0</b>	<b>0</b>	N/A
Third Pipe, km	<b>0</b>	<b>0</b>	N/A
Ditches and Swales, km	<b>0.3 km</b>	<b>0</b>	Scheduled for maintenance in 2025.
STM, km	<b>0.14 km</b>	<b>0.14 km</b>	Repairs performed as part of the 2024 pavement management program and capital program.

*\*The numbers were updated based on the assumption of the G25 and FCC18 in 2023*



## E. Summary of Calibration and Maintenance for Monitoring System

No calibration and maintenance activities were performed during the reporting period.

## F. Summary of Complaints

In 2024, a total of 100 complaints were received by the Town through phone calls, email, website portal, and in-person communication. Majority of the complaints represent a localized issue. The complaints are recorded and assigned to an appropriate staff member for follow-up and confirmation of the reported issue.

The complaints are categorized into several types: culverts, ditches, drainage issues, catch basin-related concerns, and spills (both reportable and non-reportable spills). Please find details on the reportable spills in Sec. H.

The summary of the public complaints is provided in Table 4 below.

**Table 4. Summary of Public Complaints**

<b>Complaint category</b>	<b>Complaint typical details</b>	<b>Actions Taken</b>
Culverts	Blocked by debris, sinkhole observed, damaged by heavy equipment and vehicles	Culvert replacement, removal of debris, assessment of the culvert through a culvert and bridge program
Ditches	Drainage concerns, overgrown with vegetation, silt depositions, and stagnant water.	Ditching program helps to inspect and maintain ditches across the Town
Drainage	Flooding issues of private properties, flooded basements	The Region of Halton is engaged with the flooding basements issues (sanitary sewers), and private property owners are advised of the drainage practices in Ontario
Catch basins	Blockages or drainage issues, odours	In addition to the existing CB clean-out program, additional inspections and clean-outs are provided as required
Spills (non-reportable)	Isolated gasoline or oil spills	Application of absorbent, sweeping out a section of the road to mitigate the potential impact

## G. Summary of Alterations to the System

As part of approved developments in the Town of Halton Hills in 2024, the existing system expansions included an addition of one (1) dry pond/bioretention facility (R23), one (1) superpipe (LID11), one (1) rooftop storage facility, four (4) flat-bottom grass swales (LIDR2301, LIDR2302, LIDR2303, LIDR2304), and two (2) MTDs (OGS-G33, OGS-LID13). The assets are in various stages of assumption.

Of the nine (9) pre-authorizations processed in 2024, one (1) alteration was to improve performance (details are provided in Section I. Summary of Performance Corrective Actions), and eight (8) pre-authorizations were related to the expansion of the existing system.

One previously approved SWM system (pond G25 and FCC18) was assumed by the Town on November 24, 2023

**Table 5. Summary of Alterations to the Existing System**

<b>Alteration Type</b>	<b>Number of Alterations</b>	<b>Number of Alterations that Pose a Significant Drinking Water Threat</b>
Pre-Authorized Storm Sewer, Ditch, or Culvert	4	0
Pre-Authorized Stormwater Management Facility	9	0
Pre-Authorized Third Pipe	0	0
Previously Approved Works	1	0
Schedule C Works	0	0

## H. Summary of Spills or Abnormal Discharge Events

In 2024, the Town of Halton Hills had one (1) significant rain event, and two (2) spills were reported to the MECP. Details are provided in the Table below:

**Table 6. Summary of Abnormal Discharge Events**

#	Date	Location / Receiver	Description of Spill / Event	Estimated Duration	Estimated Volume	Actions Taken
1	July 16, 2024	Silver Creek	Excessive rainfall for a few days, resulting in 75 mm to 118 mm of rainfall	24 hours	N/A	Emergency flood protection works, road closures, and inspections of the structures and community support.
2	June 5, 2024	ID- IC01  Sixteen Mile Creek	White substance in the outlet of the pond  Event number for spill #I-6Z6BDE	31 Days	N/A	Qualified contractor retained and completed the cleanup. The file is closed by the MECP.
3	August 1, 2024	Silver Creek	A grease spill into the catch basin behind the Georgetown at 185 Guelph Street.  Event number for spill #1-9I927N.	3 <sup>rd</sup> party Private property	N/A	The catch basin was on private property - proper cleanout was provided by a third-party contractor. The town's infrastructure was not affected.

## I. Summary of Performance Corrective Actions

In 2024, a section of the existing system was identified as undersized in the draft Stormwater Management Master Plan report. The Capital Program was used to accommodate the recommendations from the draft SWM Master Plan, and as a result, a section of the STM was replaced to improve performance.

**Table 7. Summary of Performance Corrective Actions**

#	Issue	Actions completed	Completion Date
1	Undersized system	Main Street South, Acton, 91.0m 300mm STM replaced with 91.0m 375mm STM.	Completed 2024

## J. Previous Reporting Action Status Summary

Not applicable.

## **K. Additional Notes/Comments**

In 2025, the Town is planning the following:

### **Town Secondary Plans**

Premier Gateway Phase 2B Secondary Plan was approved in 2024, setting the stage for the Town to expand 845 ha of employment development along Steeles Ave. This plan has fragmented ownership and will proceed through various site plan applications, where a new roadway will be established. Within this area, a new storm sewer system will be required to support the roadway and site plans, and some private and/or public SWM facilities.

Southwest Georgetown (aka Vision Georgetown) is an OLT-approved secondary plan that includes a mix of residential densities and commercial uses. The landowners group associated with this project has advised that they intend to start their Subdivision detail design process in 2025 and intend to proceed as individual development with multiple phases. This project will include many new features that address stormwater management, stormwater conveyance, and low-impact development.

The Southeast Georgetown Secondary Plan, which includes residential development, was approved in 2025 and has already started the detailed design phase. This developer is eager to start some work in 2026. This project proposes two SWM facilities, one of which will provide capacity for a future Halton Region roadway.

There are three other secondary plans the Town is advancing that are in different stages of progress: Stewarttown Secondary Plan, the Georgetown GO Station Secondary Plan, and the Guelph Street Corridor Study.

### **Stormwater Master Plan (SWMP)**

The Town's Stormwater Master Plan (SWMP) project was initiated in 2021. The SWMP helps the Town understand how the existing stormwater management network is functioning, identifies opportunities and vulnerabilities, and is intended to inform short and long-range planning to improve the state of the Town's stormwater infrastructure. The study results will assist in addressing issues before stormwater assets fail or are otherwise unable to fulfill their intended purposes.

The SWMP study was undertaken in accordance with the Master Plan Approach #1 planning process as outlined in the Municipal Engineer's Association "Municipal Class Environmental Assessment" (2000, as amended in 2007, 2011, and 2015), which is approved under the Environmental Assessment Act. The study satisfies the planning requirements for Schedule A and A+ projects and provides the basis for future Schedule B and C projects. Results from this study are documented in the Master Plan Report.

The Town completed its final consultation requirements and issued the Notice of Master Plan in February 2025. It is anticipated that the Town will begin following the recommendations outlined in the SWMP after consideration and adoption of the SWMP by Council (approx. in the summer of 2025).

## **L. Annual Report Available to Public**

The Town shall submit a copy this report (Consolidated Linear Infrastructure Environmental Compliance Approval (CLI-ECA) Annual Stormwater Performance Report 2024) to the Ministry of the Environment, Conservation and Parks no later than April 30, 2025, in accordance with Section 5.0 “Reporting” of Schedule E in the CLI\_ECA Permit # 328-S701.

The report shall be available to the public for free.

The Town has a designated webpage on the Town’s website where the report will be posted (<https://www.haltonhills.ca/en/residents/cli-eca.aspx>)

Printed copies of the report are available for viewing by request at the Town Hall located at 1 Halton Hills Drive, Town of Halton Hills, Ontario, L7G 5G2.

AODA-compliant documents will be available by June 1, 2025.

## **M. Additional Information**

The Town is exploring ways to effectively implement the conditions of the CLI-ECA permit while facing challenges related to resource constraints.

The Town’s resource capacities to achieve the objectives of the pending monitoring guideline will require future assessment.

The Town endorses the existing Provincial Water Quality (PWQ) program as part of a broader monitoring initiative aimed at understanding trends at the provincial level and informing land-use planning directions from the Province.