



# 2023 Annual Performance Report – Whitchurch-Stouffville Stormwater Management System

**ENVIRONMENTAL COMPLIANCE APPROVAL (# 132-S701) –  
TOWN OF WHITCHURCH-STOUFFVILLE**

**Prepared by: Engineering & Public Works Commission**

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<b>ENVIRONMENTAL COMPLIANCE APPROVAL</b>	<b>ECA Number:</b> 132-S701
<b>System Owner:</b> Municipality of Whitchurch-Stouffville	
<b>System Name:</b> Whitchurch-Stouffville Stormwater Management System	
<b>Reporting Period:</b> January 1st – December 31st, 2023	
<b>Submitted to:</b> Director, Ministry of the Environment, Conservation and Parks (MECP)	<b>Report Date:</b> August 16, 2024

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## OVERVIEW

Pursuant to Ontario's *Environmental Protection Act*, R.S.O 1990, c. E. 19 (EPA), this report has been prepared in compliance with Section 5.2, Schedule E: Operating Conditions of the Town of Whitchurch-Stouffville Environmental Compliance Approval (ECA) for the authorized municipal stormwater management system.

## REPORTING – ANNUAL PERFORMANCE

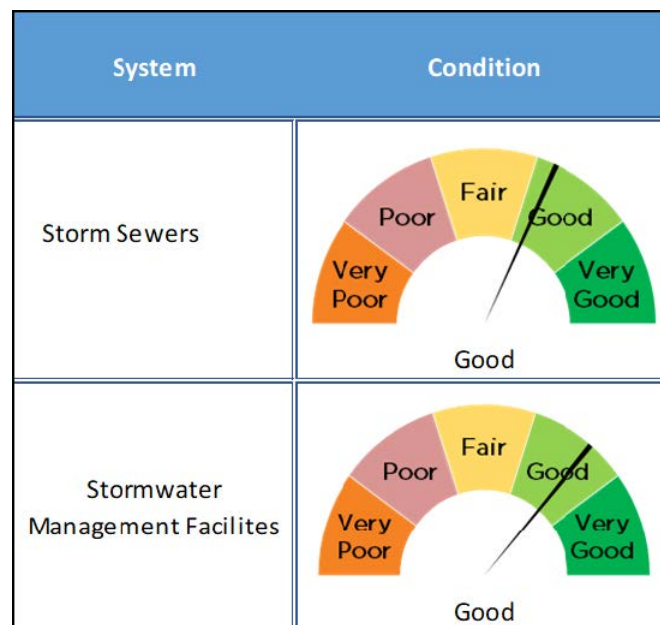
### A. Reporting Period (Sec. 5.2.1)

January 1<sup>st</sup>, 2023 to December 31<sup>st</sup>, 2023.

### B. System Condition, Performance & Monitoring (Sec. 5.2.2)

#### System Conditions

Overall conditions of Stormwater Management System, at end of the reporting period, can be characterized as 'good'. This rating is derived from condition assessments of the Stormwater Collection System and Stormwater Management Facilities (see Table 1).



**Table 1 – Summary of Stormwater System Condition (2023)**

### System Performance

**Stormwater Collection System** - 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 2023, no major blockages were identified in the sewers. Issues such as blockages are corrected through the Towns operations and maintenance programs to maintain optimal system performance. Storm sewer operations and maintenance activities completed in 2023 are detailed in the sections below.

**Stormwater Management Facilities** - Overall performance of the stormwater management facilities is provided through detailed annual inspections to visually identify performance or major functional issues. For 2023, 7% of the facilities inspected required interventions to ensure their continued performance. When these issues are identified they are corrected through the Towns operations and maintenance programs. Stormwater Management Facility operations and maintenance activities completed in 2023 are detailed in the sections below.

### Monitoring Data Summary

Not applicable at this time. Future system 'monitoring plan' to be developed and implemented in accordance with Ministry of the Environment, Conservation and Parks (MECP) guidelines (yet to be released) and ECA requirements.

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

Not applicable (see item B, Monitoring Data).

## D. Operations Summary (Sec. 5.2.4)

Stouffville's Stormwater Service Area completes a variety of operations and maintenance (O&M) programs and activities to maintain services of the stormwater management system. Depending on the type of works, some operations are completed through internal programming and others are contracted to external vendors or a combination of both. Where external vendors have completed detailed O&M and inspection plans for a specific facility (i.e. SWMFs).

Operating Program/Activity	Frequency*	Contract vs. Internal
Closed-Circuit Television (CCTV) Sewer Inspections	Every year	Contract
Catchbasin Cleaning	Every year	Contract
Spills Inspection & Response	As needed	Contract / Internal
Street Sweeping	Every year	Contract
Inlet/Outlet Cleaning	Seasonal / Post-event	Internal
Sewer Cleaning/Flushing	Per inspection	Contract
Stormwater Management Facility O&M	Per inspection	Internal
Oil-Grit Separator (OGS) O&M	Every year	Contract

\*Frequency is subject to change through regular review and updates to level of service.

**Table 2 – Summary of Stormwater Operations Programs**

Throughout the year, operational work is completed on the stormwater management system and often recorded in a work order (WO). Table 3 summarizes works completed by operations program.

Operating Program/Activity	# of Works Completed / Work Orders
CCTV Sewer Inspections & Cleaning/Flushing	2
Catchbasin Cleaning	4
Street Sweeping	18
Inlet/Outlet Cleaning	4
Stormwater Management Facility O&M	62
OGS Cleaning	4

**Table 3 – Summary of Works/Work Orders by Operations Program**

## E. Inspection & Maintenance Details (Sec. 5.2.5)

Stouffville's Stormwater Service Area completes several formal inspection programs to evaluate conditions, identify deficiencies and maintenance and to plan repair/renewal works. For instance, the Town performs an annual CCTV inspection program to survey the condition of both sanitary and storm sewer infrastructure. The areas selected for annual inspections are determined based age and known operational issues, as well as the length of time between surveys of each area.

Table 4 summarizes the primary inspection activities and the amount of inspection completed.

Inspection Program/Activity	Total
CCTV Sewer Inspections	9 km
Priority Inlet/Outlet Inspections - <i>Cleaning</i>	4
Inlet/Outlet Inspections - <i>Condition</i>	4
Inlet/Outlet Inspections - <i>Water Quality</i>	4
Stormwater Management Facility Inspections	62
OGS Inspections	4

**Table 4 – Summary of Inspection Programs for Stormwater System**

Through the above inspection programs or internal/external requests received, Town staff undertake the necessary works to maintain the Stormwater System in a state of good repair. Similar to operations, some maintenance is completed through internal programming and other works are contracted to external vendors. Maintenance and repairs are often recorded in a work order (WO). Table 5 summarizes works completed by maintenance program.

Maintenance Program/Activity	# of Works Completed / Work Orders	Contract vs. Internal
Storm Sewer Repair	0	Contract
Cross-Connections	0	Contract
Catchbasin/Maintenance Hole Repair	8	Internal
Inlet/Outlet Repair	4	Internal
Ditch/Culvert & Headwall Repair	0	Internal
Stormwater Management Facility Repair	0	Internal

**Table 5 – Summary of Works/Work Orders by Maintenance Program**

## F. Monitoring Equipment (Sec. 5.2.6)

Not applicable (see item B, Monitoring Data Summary).

## G. Inquiry Summary (Sec. 5.2.7)

The Town of Whitchurch-Stouffville has a Central Customer Service Centre. Stormwater System inquiries and requests for service are logged by customer service staff and sent to the appropriate division/staff. Staff review, assess and investigate the concern and respond to all inquiries based on established service timelines (e.g. 3 to 10 days).

Should the inquiry identify the need to undertake operations & maintenance works or repairs on stormwater infrastructure, staff submit an internal service request or work order.

The Engineering and Public Works, Fleet & Transportation Commission receives inquiries that relate to the Town's Stormwater System. Table 6 below summarizes the inquiries received/resolved for this reporting period.

Inquiry Type	Total
<i>Infrastructure Planning &amp; Engineering</i>	
Storm Sewer By-law Compliance	0
Spills & Pollution Prevention	0
Stormwater Planning & Projects	2
Stormwater Development & Design	0
Stormwater Management Ponds	0
Storm Sewers & Drainage	0
Council Requests	0
<i>Works, Operations &amp; Maintenance</i>	
Catchbasin Clearing - Winter Operations	0
Ditch, Culvert & Headwall Maintenance	4
Storm Sewer Blockage	2
Catchbasin & Maintenance Hole Covers	0
Storm Sewer Outlet Maintenance	4
Council Requests	0
<b>Total</b>	<b>12</b>

**Table 6 - Summary of Public Inquiries for Stormwater System (2023)**

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

Alterations to the authorized Stormwater System are summarized below indicating those that require Director's Notification as well as Storm Sewer alterations (SW1, SW2, or SW3 Form).

While no Alterations to the Authorized System under the current CLI-ECA were submitted during the reporting period, the following reconstruction project was undertaken to replace various aspects of the Town's infrastructure, including the addition of storm sewer infrastructure within the project area.

Lloyd Street Reconstruction – the reconstruction of Lloyd Street included the addition of a new PVC storm sewermain, manholes, catchbasin manholes, catchbasins, and catchbasin leads. The application for the sewer works for this project was filed under the previous ECA program and received Reference Number 6765-CRMPQ6 from the MECP. This project is outside of the source water protection areas and is thus not a Significant Drinking Water Threat.

## I. Spills Response Summary (Sec. 5.2.9)

Staff receive notice of spills and/or abnormal discharge events from various sources (internal and external) and respond with the necessary mitigations and inspections. The Town did not experience any spills or abnormal discharge events during the reporting period. Table 10 below summarizes the Town's spills response for the reporting period.

Spills / Abnormal Discharge	Total
Reported Events	0
Inspections	0
Work Orders	0

**Table 10 – Summary of Spills Response**

## J. Corrective Actions Taken & Proposed (Sec. 5.2.10)

NO PROJECTS ARE CURRENTLY ON THE 10 YEAR PLAN

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

Not applicable for initial report.



## Appendix A – Reference Documents

NONE