## 2025 ANNUAL PERFORMANCE REPORT

# STORMWATER MANAGEMENT SYSTEM

**Reporting period: Jan. 1, 2025 to Dec. 31, 2025**

A description of the City of Vaughan's Municipal Stormwater Management System to fulfill the requirements of CLI-ECA #011-S701

This report is available to the public at no charge on the City of Vaughan's website and upon request.

VAUGHAN

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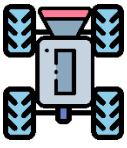
# Executive Summary

The City of Vaughan (herein after referred to as the "City" or "Owner") received its first Consolidated Linear Infrastructure Environmental Compliance Approval CLI-ECA #011-S701 (PDF) for the Municipal Stormwater Management (SWM) System (herein after referred to as the "Authorized System") on Nov. 25, 2022. The City is responsible for monitoring, operating and maintaining the Authorized System in a state of good repair and for providing municipal services to protect people, the environment and property in alignment with the City's 2022-2026 Term of Council Service Excellence Strategic Plan (PDF). This report summarizes the results of the inspection and maintenance activities completed during the reporting period of Jan. 1, 2025 to Dec. 31, 2025.

Based on the monitoring activities conducted in the reporting period, the system is performing well. The City is committed to focusing on continuous improvement by building strong foundational processes to support operational and service delivery.

No Ministry of Environment, Conservation and Parks (herein after referred to as the "Ministry" or "MECP") inspections of the SWM System occurred during the reporting period.



**100 km** of storm sewers inspected

**378** stormwater pond inspections

**283** resident inquiries

**10,020** catch basins cleaned

**~4 m** of storm sewer repairs

**119** maintenance hole and/or catch basin repairs

# Municipal Stormwater Management System Description

The City's Authorized System serving the city's drainage area is a separate system for stormwater (i.e. designed not to transmit sanitary sewage and/or combined sewage) within the Don River and Humber River watershed(s). The Authorized System consists of storm sewers, culverts, ditches, SWM facilities and outlets.

An extensive stormwater network of assets is operated and maintained by the City to manage stormwater. According to the City's 2025 Asset Management State of Infrastructure Update, the Authorized System is valued at $2.52 billion (not including lakes, rivers and waterways), encompassing Stormwater Conveyance, SWM Open Conveyance and SWM Facility asset categories, which are further divided into 15 asset types ranging from stormwater mains to facilities as detailed in Table 1.

### Table 1: Stormwater Services Asset Inventory

| Asset Category | Asset Type | Number | Unit of Measure |
|---|---|---|---|
| **Stormwater conveyance** | Mains – Stormwater (STM) | 1,201 | Kilometres |
| | Mains – Clean Water Collectors (CWC) | 5.7 | Kilometres |
| | Mains – Foundation Drain Collectors (FDC) | 88 | Kilometres |
| | STM laterals | 240 | Kilometres |
| | FDC laterals | 17 | Kilometres |
| | STM maintenance holes | 16,694 | Each |
| | CWC maintenance holes | 38 | Each |
| | FDC maintenance holes | 711 | Each |
| **SWM – open conveyance** | Catch basins | 23,089 | Each |
| | Minor culverts | 417 | Each |
| | Major culverts | 136 | Each |
| | Inlet – outlet structures | 968 | Each |
| | Devices | 490 | Each |
| | Ditches | 88 | Kilometres |
| ***SWM – facility** | SWM ponds | 189 | Each |

*This inventory includes the following asset statuses: a) Active; b) Assumed; c) Unassumed; d) Proposed; e) Unknown; f) Blank. The inventory also includes the following ownership statuses: a) Vaughan; b) Park; c) Unknown; d) Blank. If an asset is in the City's GIS database and meets one of the asset statuses AND one of the ownership statuses listed above, then it is part of the inventory as tabulated above. Otherwise, it was excluded. Source – AMP 2025 Asset Management State of Infrastructure Update (Draft).*

*164 SWM ponds are assumed and operated by the City.

Please refer to Appendix A for a map of the Authorized System.

# CLI-ECA Requirement: Annual Performance Report for Authorized System

In accordance with CLI-ECA #011-S701, Schedule E – Section 5.2, the Owner shall prepare an Annual Performance Report for the Authorized System.

The Report shall:

- include 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;
- include a summary and interpretation of environmental trends based on all monitoring information and data for the previous five years;
- include a summary of any operating problems encountered and corrective actions taken;
- include 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;
- include a summary of the calibration and maintenance carried out on all monitoring equipment;
- include a summary of any complaints related to the sewage works received during the reporting period and any steps taken to address the complaints;
- include 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;
- include a summary of all spills or abnormal discharge events;
- include a summary of actions taken, including timelines, to improve or correct the performance of any aspect of the Authorized System; and
- include a summary of the status of actions for the previous reporting year.

Additionally, the Report shall:

- cover the reporting period of Jan. 1, 2025 to Dec. 31, 2025;
- be submitted to the Director (MECP); and
- be made available without charge to members of the public who are served by the Authorized System (upon request or by publishing the report on the City's website).

# Summary and Interpretation of Monitoring Data

This section provides a summary of the operation, inspection and monitoring data collected by the City as a part of the scheduled preventive maintenance activities.

Routine and preventive maintenance activities include Closed-Circuit Television (CCTV) inspection of stormwater mains; catch basin cleaning; monthly, semi-annual and annual inspections of SWM ponds; and preventive repair of SWM infrastructure. Table 2 includes details of several routine monitoring programs undertaken during the reporting period.

### Table 2: Summary and interpretation of Monitoring Data for SWM Assets in Vaughan

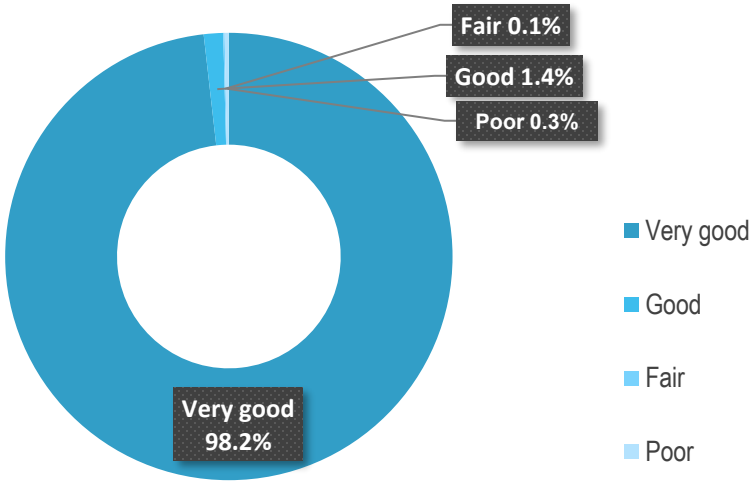
| Monitoring Program | Current Process | Interpretation of Monitoring Data |
|---|---|---|
| **SWM pond inspections** | Routine inspection and maintenance activities at all 164 SWM ponds that are assumed and operated by the City. This includes:<br>• routine (monthly, quarterly and semi-annual) inspections on ponds requiring frequent inspections.<br>• inspections after significant storm events for select ponds.<br>• annual inspections. | Data collected from routine inspections is recorded in logbooks.<br>Deficiencies or any operating issues identified during inspections are flagged for review, and work orders are issued for corrective action. |
| **CCTV inspection** | The CCTV program collects structural, hydraulic and location-based information about the City's sewer infrastructure. All sewers within the Authorized System are expected to be inspected once every 10 years. | Data is used to determine maintenance, replacement and/or repair activities. Work orders are generated and combined into repair packages for corrective action as required. |
| **Catch basin cleaning** | The City conducts cleaning of approximately 10,000 catch basins per year as part of its annual maintenance program. The objective is to remove any debris that restricts the flow of water through the catch basin and restore the catch basin to full capacity. This program also includes the hauling and disposal of material collected during the process. | As cleaning continues, the City will identify locations with higher sediment loading and will investigate the fundamental cause. When an issue is identified, a work order is issued/created for corrective action. |
| **Sediment removal and pond clean-out** | To support the long-term function of stormwater infrastructure, the City prioritizes restoring the treatment capacity (i.e., water retention volume) in SWM ponds based on sediment loading and accumulation data. | Facilitates the collection of data associated with the current condition of the SWM ponds, sediment loading, sediment testing, sediment removal and site restoration. |
| **SWM facility monitoring** | The City's SWM Facility Monitoring Program was established to verify the as-built SWM facilities operate in accordance with the approved design prior to assumption. | Inspection results are compared to the pond design drawings and the SWM facility's Environmental Compliance Approval (ECA) documents, the findings are documented, |

| Monitoring Program | Current Process | Interpretation of Monitoring Data |
|---|---|---|
| | | and deficiencies (if applicable) are corrected by the developer. |

Data collected through these monitoring programs can be used as an indicator of the overall performance of the Authorized System. This data assists in:

- **identifying pipe renewal and replacement activities.** Data is used to identify the stormwater management system's linear infrastructure assets renewal (cured-in-place pipe lining/trenchless repairs) and replacement (open-cut/rehabilitation) requirements.
- **determining decommissioning and disposal activities.** Asset decommissioning and disposal activities are performed to decommission and dispose of assets due to aging or changes in performance and capacity requirements.
- **providing input to the risk assessment of assets.**
- **providing input to the annual capital and operating budgets.**
- **determining the Authorized System's condition.** According to the City's 2025 Asset Management State of Infrastructure Update, nearly 98.2 per cent of the City's service assets in the SWM system are in "Very Good" condition. The remaining assets are in "Good" and "Fair" condition, indicating they meet current needs but may require attention in the future as they age, as shown in Figure 1.

**Figure 1: Asset Condition Summary (SWM System)**




Based on the monitoring activities conducted during the reporting period, the Authorized System is performing well. The programs listed in Table 2 are undertaken to protect the City's natural environment from adverse effects. The City is committed to continuous improvement by building strong foundational processes to support operations and service delivery.

# Summary and Interpretation of Environmental Trends Based on all Monitoring Information and Data from the Previous Five Years

As per CLI-ECA #011-S701, Schedule E, Section 4.0 requirements, the City is required to develop and implement a Monitoring Plan for the Authorized System on or before Nov. 15, 2025, or within 36 months of the date of the publication of the MECP's monitoring guidance, whichever is later.

The Monitoring Plan shall include:

a. procedures to verify that the operational performance of the Authorized System is as designed/planned.
b. procedures to assess the environmental impact of the Municipal Stormwater Management System; and
c. procedures for any corrective action that may be required to address any performance deficiencies or environmental impacts identified from the above conditions (a) or (b).

The MECP's monitoring guidance has not yet been released. The City will develop a Monitoring Plan based on the guidelines within the timeline stipulated above. This section of the report will be populated in subsequent reporting years following the implementation of the Monitoring Plan.

# Summary of Operating Problems Encountered and Corrective Actions Taken

Table 3 provides a summary of operating problems encountered during the reporting period and the corresponding corrective actions taken.

### Table 3: Summary of Operating Problems Encountered and Corrective Actions Taken

| Operating Problem Encountered | Corrective Actions Taken |
|---|---|
| **Blocked inlet grate** | The grate was cleared of debris/branches. |
| **Misplaced or missing life ring** | If a life ring was found misplaced, it was returned to its station. If a life ring was reported missing, a new life ring was supplied and secured to the station. |
| **Beaver activity** | Site investigations were conducted to determine the impact of the dam on the SWM pond, adjacent infrastructure and private property, including its effects on watercourse flooding, increased turbidity and potential property damage. Where impacts were identified, and with consensus from City staff and the relevant conservation authority (as required), the dam was removed. |
| **Litter/debris** | Litter/debris was removed and documented for future monitoring to assess trends in litter/debris accumulation. |
| **Broken fence** | The fences were scheduled for repair. |
| **Damaged grate** | The grates are scheduled for repair. |

| Operating Problem Encountered | Corrective Actions Taken |
|---|---|
| **High water level due to blockages or significant rain event** | The inlet/outlets (I/Os) and Hickenbottom drains were inspected for blockages. Obstructions such as branches, debris and small trees were removed from the pond. I/Os and water levels were monitored to confirm proper drainage. All observed conditions were documented to support future monitoring and identify trends in debris buildup. If water levels remained high, I/Os and Hickenbottom drains were flushed to clear any remaining debris. In all cases, water levels were successfully restored. Where drainage issues recurred, the information was used to help prioritize future pond dredging/clean-out prioritizations and was documented for ongoing tracking. |
| **Sediment accumulation** | Sediment accumulation in catch basins, oil-grit separators (OGS), and SWM ponds was identified through visual inspection during routine field activities. Where buildup was observed and found to impede function, catch basins were flushed and vacuumed to restore sump capacity, and OGS units were cleaned to re-establish proper flow and treatment performance. Ponds showing noticeable sediment deposition were flagged for clean-out and incorporated into maintenance planning based on observed conditions. |
| **Spills in SWM ponds** | The Ministry's Spills Action Centre (SAC) was notified. The impacted area of the pond was skimmed to remove any sheen and residue that had entered. Containment booms and absorbent pads were deployed, and the area was monitored to ensure all sheen was fully eliminated. Investigations were initiated to determine the source of the discharge. |
| **Excess vegetation growth impeding access and blocking I/Os** | Vegetation, fallen trees and/or tree branches were removed and/or scheduled for removal from the pond perimeter wherever possible. Additionally, seasonal grass cutting is carried out to ensure operational access to the I/Os. |
| **Pond signage missing or damaged** | Installation of updated pond warning signage was undertaken to meet CLI-ECA requirements. |
| **Buried maintenance hole** | The debris, vegetation and/or snow surrounding the maintenance hole was cleared, and/or the buried maintenance hole was exposed or scheduled for exposure wherever feasible. |
| **Seized maintenance hole** | Seized maintenance holes were cleared and restored to accessible condition to facilitate inspection and cleanout where feasible. |
| **Access issues (vegetation/ insufficient truck access/ impediments)** | Vegetation was trimmed, and impediments were removed wherever possible. In cases where excessive vegetation was present or additional space was required for truck access, work orders were created for further action. |
| **Missing or misplaced bollards** | The bollards were reset when misplaced. When bollards were reported missing, new bollards were ordered for installation. |
| **Large objects in and around SWM pond** | Large objects were removed from in and/or around the pond. |

# Summary of Inspection, Maintenance and Repairs

Throughout the year, several tasks are conducted to ensure the Authorized System is operated and maintained to achieve compliance with CLI-ECA #011-S701. These tasks are generally grouped into three categories:

- **Preventive Maintenance** – conducted on a routine basis to maintain the equipment in good working order and lessen the likelihood of failure.
- **Corrective Maintenance** – conducted to correct deficiencies discovered during routine inspections or preventive maintenance activities to return equipment to working order.
- **Unplanned (Emergency) Maintenance** – conducted in response to an emergency, such as equipment failure.

Table 4 summarizes the inspection and preventive maintenance activities carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Authorized System during the reporting period.

### Table 4: Summary of Inspection and Preventative Maintenance Activities during the Reporting Period

| Work Description | Frequency | Quantity |
|---|---|---|
| **Storm sewer CCTV inspection** | Annually (10 per cent program) | 97.7 km of storm sewer mains<br>2.9 km of foundation drain collectors (FDC) |
| **Catch basin cleaning** | Annually (33 per cent program) | 10,020 catch basins |
| **SWM pond inspections** | Annual inspections as well as routine inspections of select ponds. | 378 |
| **Grass cutting at SWM ponds** | Seasonally | Three times per year per SWM pond |

Table 5 summarizes corrective and unplanned maintenance and repair activities carried out on any major structure, equipment, apparatus, mechanism or thing forming part of the Authorized System during the reporting period.

### Table 5: Summary of Corrective and Unplanned Maintenance and Repair Activities Undertaken on the Authorized System within the Reporting Period

| Work Description | Work Category | Location | Number of Work Orders |
|---|---|---|---|
| **Storm maintenance hole repairs** | Unplanned | Various | 10 |
| **Catch basin repairs** | Unplanned | Various | 43 (catch basins)<br>6 (super catch basins) |
| **SWM pond I/O repair** | Unplanned | Various | 1 |
| **Storm maintenance hole repairs** | Corrective | Various | 25 |
| **Catch basin repairs** | Corrective | Various | 35 |
| **SWM pond maintenance** | Corrective | Various | 363 |
| **Storm sewer spot repairs (4m)** | Corrective | Various | 4 |

# Summary of Calibration and Maintenance on Monitoring Equipment

There was no monitoring equipment within the Authorized System requiring calibration or maintenance during the reporting period.

# Summary of Complaints

The City makes every effort to address and resolve resident inquiries in a timely manner. A Customer Relationship Management (CRM) database is used to record details, including information collected from the resident, on the nature of the inquiries and actions taken by the City. The CRM solution was identified in the Service Vaughan Strategy and Implementation Plan and the Digital Strategy and aligns with Service Vaughan's vision of "Citizens First Through Service Excellence." The benefits of CRM include:

- enhancement of technology, which provides staff with better tools to track, manage, follow up and report on service requests
- an improved service delivery model that allows users to have a holistic view of all services delivered to residents, including data analytics

Table 6 provides a summary of all inquiries related to the Authorized System during the reporting period.

### Table 6: Summary of all Inquiries During the Reporting Period

| Interaction Type | Description of Inquiry | Number of Inquiries[2] | Status |
|---|---|---|---|
| **Catch basins and maintenance holes** | • Exposed maintenance hole or catch basin, lid missing, displaced or broken<br>• Drainage issues/blockage<br>• Raised or sunken maintenance hole<br>• Suspected dumping in maintenance hole/catch basin<br>• Item of value dropped into a catch basin | 150 | Active: 0<br>Resolved: 150 |
| **Sewer backup** | • Drainage issues/blockage | 4 | Active: 0<br>Resolved: 4 |
| **SWM ponds** | • Dumping in ponds<br>• Large objects in or around ponds<br>• High or low water levels<br>• Signage/life station missing<br>• Animal sightings<br>• Odour issues | 51 | Active: 0<br>Resolved: 51 |
| **Spills[1]** | • Witnessed dumping<br>• Roadway spill<br>• Odour issue as a result of suspected spill or dumping<br>• Road accident – fuel spill | 33 | Active: 0<br>Resolved: 33 |
| **Stormwater – other** | • Dumping / Littering<br>• Large objects in or around ponds<br>• Raised or sunken maintenance hole<br>• Odour issues<br>• Flooding/ponding/drainage concerns | 45 | Active: 0<br>Resolved: 45 |

*[1]Includes overland spill, private side spill, etc. Spills not related to the Authorized System are forwarded to relevant authorities before the case is marked "closed" or "cancelled."*

*[2]Complaints not related to the Authorized System are forwarded to relevant authorities before the case is marked "closed" or "cancelled."*


Below are typical corrective actions undertaken in response to inquiries:

- Initiation of site investigation and correspondence with residents.
- Initiation of immediate action on-site to minimize the extent of damage where possible, such as:
    - cleaning and removal of debris/blockage from catch basins and pond inlets to restore drainage;
    - spill containment using absorbent pads/booms;
    - elimination of safety issues by attending to exposed maintenance holes; or
    - cleaning and flushing work to improve drainage
- Determination of on-site action, where required, to respond to unplanned maintenance or prioritization of further repair work associated with corrective maintenance.
- Creation of work orders for corrective/unplanned repairs as applicable.
- Collaboration and engagement with other City departments or authorities as required for complaints not related to the Authorized System.

# Summary of Alterations to the Authorized System

As per CLI-ECA #011-S701, the City can authorize low-risk municipal alterations to the Authorized System when the permit's Schedule D criteria are met.

Once new infrastructure is assumed, the City takes on the duty of operating and maintaining it to ensure safety and reliability. These operations and maintenance activities are necessary to ensure the system continues to perform as designed.

Table 7 summarizes all alterations to the Authorized System that were authorized by the City within the reporting period, including a list of alterations that pose a significant drinking water threat (SDWT).

### Table 7: Summary of All Alterations to the Authorized System during the Reporting Period

| Number | Alteration to the Authorized System Project Name | Description of Work | Location of Work | Date of Approval (2025) | Form | Does this Alteration Pose a SDWT? |
|---|---|---|---|---|---|---|
| 1 | 19T-22V006 - Copper Creek Phase 1 | Installation of new storm sewers to service Copper Creek Phase 1 | South-east quadrant of the Highway 27 and Kirby Road intersection | March 13 | SW1 | No |
| 2 | 19T-22V006 - Copper Creek Phase 1 | Installation of new Foundation Drain Collector (FDC) sewers to service Copper Creek Phase 1 | South-east quadrant of the Highway 27 and Kirby Road intersection | March 13 | SW3 | No |
| 3 | 19T-22V006 - Copper Creek Phase 1 | Installation of new backyard infiltration trenches to facilitate infiltration of stormwater runoff from some rear roofs to serve Copper Creek Phase 1 | South-east quadrant of the Highway 27 and Kirby Road intersection | March 13 | SW2 | No |
| 4 | DA.23.035 - Toronto RV Road realignment | Installation of new storm sewers to service new development at 7242 Highway 27 | 7242 Highway 27 | March 13 | SW1 | No |
| 5 | DA.23.035 - Toronto RV Road realignment | Installation of new inline superpipe system and OGS unit to service new development at 7242 Highway 27 | 7242 Highway 27 | March 13 | SW2 | No |
| 6 | ID 22-01 - Canada Drive | Installation of new storm sewers to convey stormwater from the Canada Drive to America | Canada Drive - America Avenue bridge | April 3 | SW1 | No |

| Number | Alteration to the Authorized System Project Name | Description of Work | Location of Work | Date of Approval (2025) | Form | Does this Alteration Pose a SDWT? |
|---|---|---|---|---|---|---|
| | America Avenue Bridge crossing | Avenue Bridge to existing the sewer system | crossing of Highway 400 | | | |
| 7 | Carville Community Centre | Installation of new open loop geothermal energy system to provide space heating and cooling for the new Carville Community Centre | 655 Thomas Cook Avenue | April 3 | SW3 | No |
| 8 | DA.23.060 - ZZEN - Jane Kirby industrial development | Installation of new storm sewers and box culverts to service new development around Shipwell Street extension | 11424 Jane Street | April 22 | SW1 | No |
| 9 | North Maple Reserve Park (NMRP)- Family Recreation Area | Installation of new storm sewers and culverts to service NMRP Family Recreation Area | 11085 Keele Street | May 27 | SW1 | No |
| 10 | North Maple Reserve Park (NMRP)- Family Recreation Area | Installation of new outlets to existing stormwater management facilities with sufficient capacity to service NMRP Family Recreation Area | 11085 Keele Street | May 27 | SW2 | No |
| 11 | North Maple Reserve Park (NMRP)- parking lot and soccer dome | Installation of new storm sewers to service NMRP parking lot expansion and soccer dome | 11085 Keele Street | June 2 | SW1 | No |
| 12 | North Maple Reserve Park (NMRP)- parking lot and soccer dome | Installation of new underground stormwater tank, manufactured treatment device and infiltration galleries to service NMRP parking lot expansion and soccer dome | 11085 Keele Street | June 2 | SW2 | No |
| 13 | DA.22.075 - Chelsea Eagle External Works | Installation of new storm sewers to service Chealsea Eagle Point development on Eagle Rock Way | Along McNaughton Road East, north of Major Mackenzie Drive | Aug. 8 | SW1 | No |
| 14 | Doctor Mclean District Park redevelopment | Installation of storm drainage infrastructure to service Doctors McLean Park redevelopment | 8100 Islington Avenue | Aug. 8 | SW1 | No |
| 15 | 19T-24V009 - Promenade Mall servicing - Phase 1 | Installation of new storm sewers to service the Promenade Mall subdivision | 1 Promenade Circle | Sept. 25 | SW1 | No |

| Number | Alteration to the Authorized System Project Name | Description of Work | Location of Work | Date of Approval (2025) | Form | Does this Alteration Pose a SDWT? |
|---|---|---|---|---|---|---|
| **16** | 19T-24V009 - Promenade Mall servicing - Phase 2 | Installation of infiltration trenches and oil grit separators to service the Promenade mall subdivision | 1 Promenade Circle | Sept. 25 | SW2 | No |
| **17** | Blocks 41 and 34 West Spine servicing - internal sewers | Installation of new storm sewers to service new development in Block 41 | North-west quadrant of the Teston Road and Weston Road intersection | Oct. 28 | SW1 | No |
| **18** | Blocks 41 and 34 West spine servicing | Installation of new SWM pond and oil grit separator to service new development in Block 41 | North-west quadrant of the Teston Road and Weston Road intersection | Oct. 28 | SW2 | No |
| **19** | Blocks 41 and 34 West spine servicing | Installation of new superpipe and oil grit separators to service new development in Block 41 | North-west quadrant of the Teston Road and Weston Road intersection | Oct. 28 | SW2 | No |
| **20** | Blocks 41 and 34 West spine servicing - internal sewers | Installation of new FDC sewers to service new development in Block 41 | North-west quadrant of the Teston Road and Weston Road intersection | Oct. 28 | SW3 | No |
| **21** | 22-03 - Kirby Road Extension | Installation of new storm sewers and culverts to service the extension of Kirby Road from Dufferin Street to Bathurst Street | Along Kirby Road, a proposed extension from Dufferin Street to Bathurst Street | Oct. 28 | SW1 | No |
| **22** | 22-03 - Kirby Road Extension | Installation of new underground storage, control chambers with flow control devices, infiltration systems, and oil grit separators to service the extension of Kirby Road from Dufferin Street to Bathurst Street | Along the Kirby Road, a proposed extension from Dufferin Street to Bathurst Street | Oct. 28 | SW2 | No |
| **23** | DE-7114-16 - Portage Parkway widening | Installation of new superpipe facility to service roads and | Along Portage Parkway near | Oct. 28 | SW2 | No |

| Number | Alteration to the Authorized System Project Name | Description of Work | Location of Work | Date of Approval (2025) | Form | Does this Alteration Pose a SDWT? |
|---|---|---|---|---|---|---|
| | | development in the Vaughan Metropolitan Centre | Buttermill Avenue | | | |
| **24** | DA.23.058 and BL.64S.2020 - Block 64S Spine Services Phase 3 | Installation of new storm sewers and culverts to service new development in Block 64 south | Along Hunter's Valley Road, north or Langstaff Road | Oct. 31 | SW1 | No |
| **25** | DA.23.058 and BL.64S.2020 - Block 64S spine services Phase 3 | Installation of new storm storage pipe, oil grit separator and deep sump catch basins to service new development in Block 64 | Along Hunter's Valley Road, north of Langstaff Road | Oct. 31 | SW2 | No |
| **26** | North Maple Reserve Park (NMRP) - enabling works | Installation of ditches, culverts and storm sewers to service new ring-road and trail network at NMRP. | 11085 Keele Street | Nov. 20 | SW1 | No |
| **27** | North Maple Reserve Park (NMRP) - enabling works | Installation of new bioretention facilities to service new ring-road and trail network at NMRP. | 11085 Keele Street | Nov. 20 | SW2 | No |

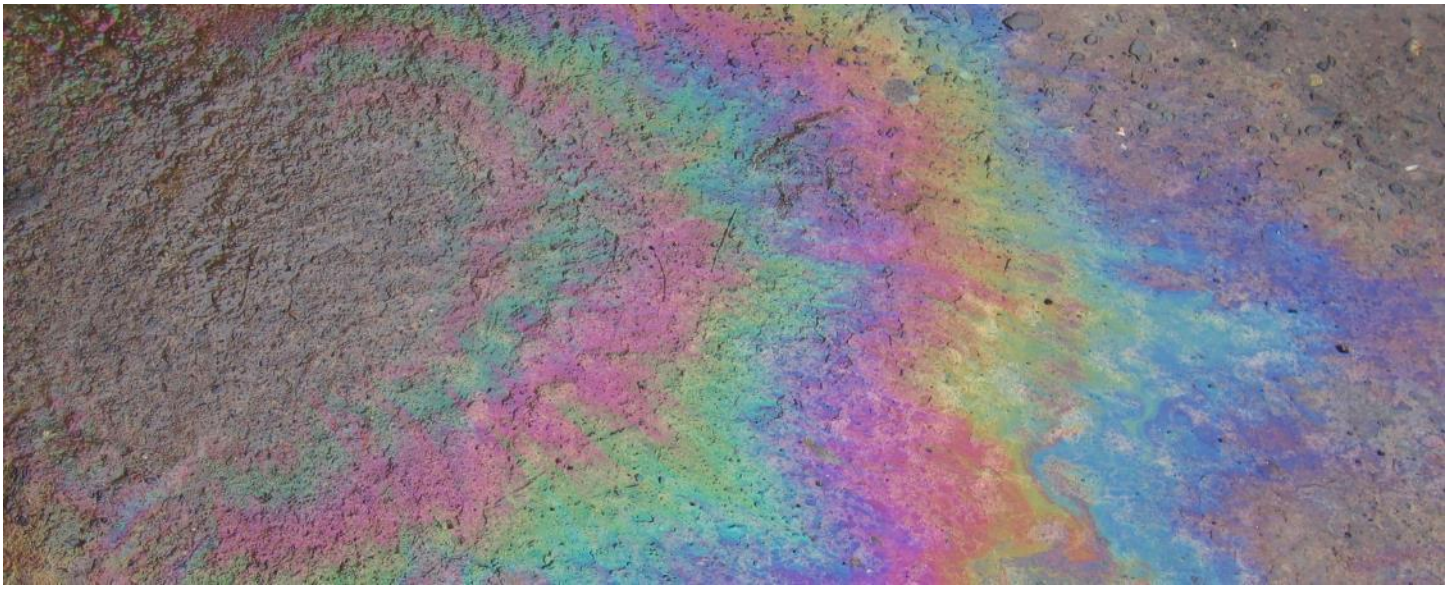
# Summary of all spills or abnormal discharge events

A **spill** is a discharge of any substance to a sewage works or to the natural environment, which is abnormal in quantity or quality, considering all the circumstances of the discharge.

Spill events are reported to the Ministry's Spills Action Centre (SAC). Table 8 provides a summary of all spills that occurred in the authorized system during the reporting period.

### Table 8: Summary of Spills and/or Abnormal Discharge Events During the Reporting Period

| SAC Reference number | Date of Event (2025) | Location | Description | Corrective Actions |
|---|---|---|---|---|
| **1-O2RYDV** | April 28 | Intersection of Pine Valley Road and Teston Road | Diesel spill onto a roadside ditch. | SAC was notified. The spill was contained, and only a small section of the ditch required cleaning. A solidifier was applied to the impacted area, and the affected material was collected for removal and disposal. |
| **1-O7OFXH** | May 7 | 23 Bordeaux Dr. | Gasoline spill onto the road and into a nearby catch basin. | SAC was notified. Absorbent pads were placed in the catch basin to contain the spill. |
| **1-OL7V94** | June 16 | 169 Rushworth Crescent | Construction material discharge to culvert. | SAC was notified. The material was removed and the culvert area was cleaned until no odour was detected, and pH test strips showed no reaction. |



| SAC Reference number | Date of Event (2025) | Location | Description | Corrective Actions |
|---|---|---|---|---|
| **1-P9KNI3** | July 31 | 96 Retreat Boulevard | Construction material spill onto the road and into a nearby catch basin. | SAC was notified. The road was power washed, and the catch basin was cleared of all debris. |
| **1-P9SZMB** | Aug. 5 | 35 Sunview Drive | Gasoline spill onto the road and into downstream stormwater infrastructure. | SAC was notified. The road was power-washed, and the catch basin was vacuumed simultaneously until there was no further trace of sheen remaining. The downstream pond was skimmed to remove any sheen and residue that had entered. Containment booms and absorbent pads were deployed, and the area was monitored to ensure all sheen was fully eliminated. |
| **1-PA2PVO** | Aug. 5 | 150 Interchange Way (Interchange Pond) | Hydraulic fluid spill into a SWM pond. | SAC was notified. The pond was skimmed to remove any sheen and residue that had entered. Containment booms and absorbent pads were deployed, and the area was monitored to ensure all sheen was fully eliminated. |
| **1-PH02Y3** | Sept. 8 | 84 Sungold Court | Construction material spill onto the road and into a nearby catch basin. | SAC was notified. The road was power washed, and the catch basin was cleared of all debris. |
| **1-PJF1XR** | Sept. 23 | 202 Woodland Acres Crescent | Construction material spill onto the road and into a nearby catch basin. | SAC was notified. The road was power-washed, and the catch basin was power-washed and vacuumed simultaneously until it was cleared of all debris. |
| **1-PKUFTQ** | Oct. 1 | 41 Vedette Way | Gasoline spill onto the road and into downstream stormwater infrastructures. | SAC was notified. Absorbent materials were used to contain the spill and the downstream storm sewers were flushed and vacuumed until clean. |
| **1-PP5JWD** | Oct. 27 | 2 Campi Road | Dumping of paint into a catch basin. | SAC was notified. Absorbent pads were placed in the catch basin to contain the spill. |
| **1-PS2RQX** | Nov. 13 | 42 Easts Corners Boulevard | Gasoline spill onto the road and into nearby catch basins. | SAC was notified. The road was power-washed, and absorbent pads were placed in the catch basin to contain the spill. |
| **1-PXF3NT** | Dec. 17 | 316 Aviva Park (Aviva Pond) | Potential dumping (hydraulic fluid or oil) into SWM pond | SAC was notified. Containment booms and absorbent pads were deployed, and the area was monitored to ensure that all visible sheen was fully removed. |

| SAC Reference number | Date of Event (2025) | Location | Description | Corrective Actions |
|---|---|---|---|---|
| **1-PYE9OL** | Dec. 23 | 46 Franklin Avenue | Gasoline spill onto the road and into nearby catch basins. | SAC notified the City of a reported spill in a catch basin within the City's jurisdiction. The road was cleaned, and absorbent pads were placed in the catch basin to contain the spill. |

# Summary of Actions Taken to Improve or Correct Performance of Any Aspect of the Authorized System

The City takes a proactive approach to identifying inefficiencies in the Authorized System and develops plans and measures to remediate those inefficiencies to improve overall system performance with the goal of reducing adverse environmental impacts and capital expenditures. Identifying and remediating system inefficiencies helps extend the life of infrastructure and increase existing system capacity, ultimately contributing to the long-term environmental and financial sustainability of the Authorized System. A summary of actions taken to improve or correct the performance of any aspect of the authorized system is presented in Table 9.

### Table 9: Summary of Actions Taken to Improve or Correct Performance of Any Aspect of the Authorized System

| Summary of Effort/Project | Description | Timeline |
|---|---|---|
| **Development of Operations and Maintenance manuals** | This project supports the City's compliance with the Consolidated Linear Infrastructure Environmental Compliance Approval (CLI-ECA) for the stormwater management system through the development of Operations and Maintenance (O&M) documentation and Standard Operating Procedures (SOPs). These deliverables ensure that stormwater assets are maintained in a state of good repair. By strengthening operational oversight and standardizing maintenance practices, the project contributes to improved performance of the authorized stormwater system and reduces the risk of infrastructure failure. | Acting during the reporting period and ongoing with completion anticipated in 2026 |
| **SWM Facility Monitoring Project** | The City conducts scheduled monitoring of SWM facilities prior to assumption to confirm the presence and condition of critical components and to ensure that the facilities function as intended, in accordance with the approved design. | Active during the reporting period and ongoing |
| **Concord GO Centre Storm Drainage Master Plan** | The City initiated the development of a Storm Drainage Master Plan for the Concord GO Centre Contributing Drainage Area to assess existing system performance, identify deficiencies, and develop alternatives to reduce flooding and improve stormwater conveyance. The study includes updated floodplain mapping, evaluation of retrofit options for existing stormwater facilities, and identification of hydraulic improvements needed to address current and future flood risks. This work supports improved system performance by providing a prioritized plan to mitigate flooding, manage flows, and guide future infrastructure upgrades within the drainage area. | Q4 2025 to Q4 2026 |
| **City-wide Stormwater Management Modelling** | This project involves the development of a comprehensive 1D/2D City-wide stormwater model to assess the performance of the existing stormwater network under varying rainfall conditions. The model once validated, will help identify areas at higher risk of flooding during extreme | Q2 2025 to Q2 2027 |

| Summary of Effort/Project | Description | Timeline |
|---|---|---|
| | rainfall events and to plan improvements to City SWM infrastructure to reduce these risks and support future design projects. | |
| **Vaughan Metropolitan Centre Stormwater Management and Storm Drainage Enhancement Study – Municipal Class Environmental Assessment** | This study updates and refines the stormwater and dual-drainage modelling for the Vaughan Metropolitan Centre (VMC), assesses existing system performance, and identifies drainage and stormwater management needs for current and future development. The work includes reviewing background information, updating hydraulic models, evaluating runoff impacts, establishing unit flow rates, identifying SWMF requirements, and preparing preferred stormwater management strategies and preliminary designs for key quadrants within the VMC. | Active during the reporting period and ongoing |
| **Stormwater management improvements at various Disaster Mitigation and Adaptation Fund (DMAF) funded sites (Phase-3)** | In 2025, construction of two new stormwater management facilities—Site 18 and 22 (Moonstone Pond) and Site 20 (Humber Green Estates Pond)—was completed. These facilities enhance water quality performance through dedicated forebays and main cells that improve sediment capture.<br>Construction of two additional facilities—Site 13 (Rainbow Pond) and Site 25 (Mapes Park Pond)—and the rehabilitation of Site 23 (DP126 – Four Valley Pond) is underway, with the rehabilitation aimed at restoring original operational conditions and maintaining stormwater quality and quantity functions. Work at remaining DMAF-funded sites will proceed in later phases. | Active during the reporting period and ongoing |
| **Black Creek Renewal project** | This project included infrastructure improvements in the Black Creek sub-watershed area to reduce flooding and flood-related damages, improve water quality in Edgeley Pond and limit stream bank erosion in the Black Creek. | Active during the reporting period and ongoing |
| **Joan Pond Clean-out and Maintenance Services** | The project involves the clean-out and maintenance of the Joan SWM Pond, including the forebay and main cell. Work includes site preparation, access improvements, temporary dewatering and flow control, excavation and removal of accumulated sediment, and disposal of materials off-site. | Q4 2025 to Q2 2026 |
| **Floral Parkway Pond Clean-out and Maintenance Services** | The project involved the clean-out and maintenance of the Floral Parkway SWM Pond, including the forebay and main cell. Work included site preparation, access improvements, temporary dewatering and flow control, excavation and removal of accumulated sediment, and disposal of materials off-site. | Q1 2025 to Q4 2025 |
| **Cardish Swale Construction** | Retrofit of an existing drainage swale, including grading and culvert improvements | Q3 2025 to Q2 2026 |
| **Culvert Rehabilitation, Removal and Replacements at various locations** | This project involves the rehabilitation of existing municipal culverts to maintain them in a state of good repair, based on condition deficiencies identified through biennial Ontario Structure Inspection Manual (OSIM) inspections. The work restores structural integrity and ensures reliable stormwater conveyance, reducing risks associated with blockage, erosion, and localized flooding. These improvements also help prevent potential road closures that could result from culvert deterioration or failure, supporting safe and continuous transportation operations. | Active during the reporting period and ongoing |
| **Public information and education about spills and hazardous materials** | The City maintains a webpage for “Spills and Hazardous Materials” with information on what an environmental spill is, what the City does to manage environmental spills, what to do when a spill is spotted and how | Active during the reporting period and ongoing |

| Summary of Effort/Project | Description | Timeline |
|---|---|---|
| | a spill should be reported to Spills Action Centre. This proactive approach helps to identify, report and respond to a spill promptly. | |

# Summary of the Status of Actions from the Previous Reporting Year

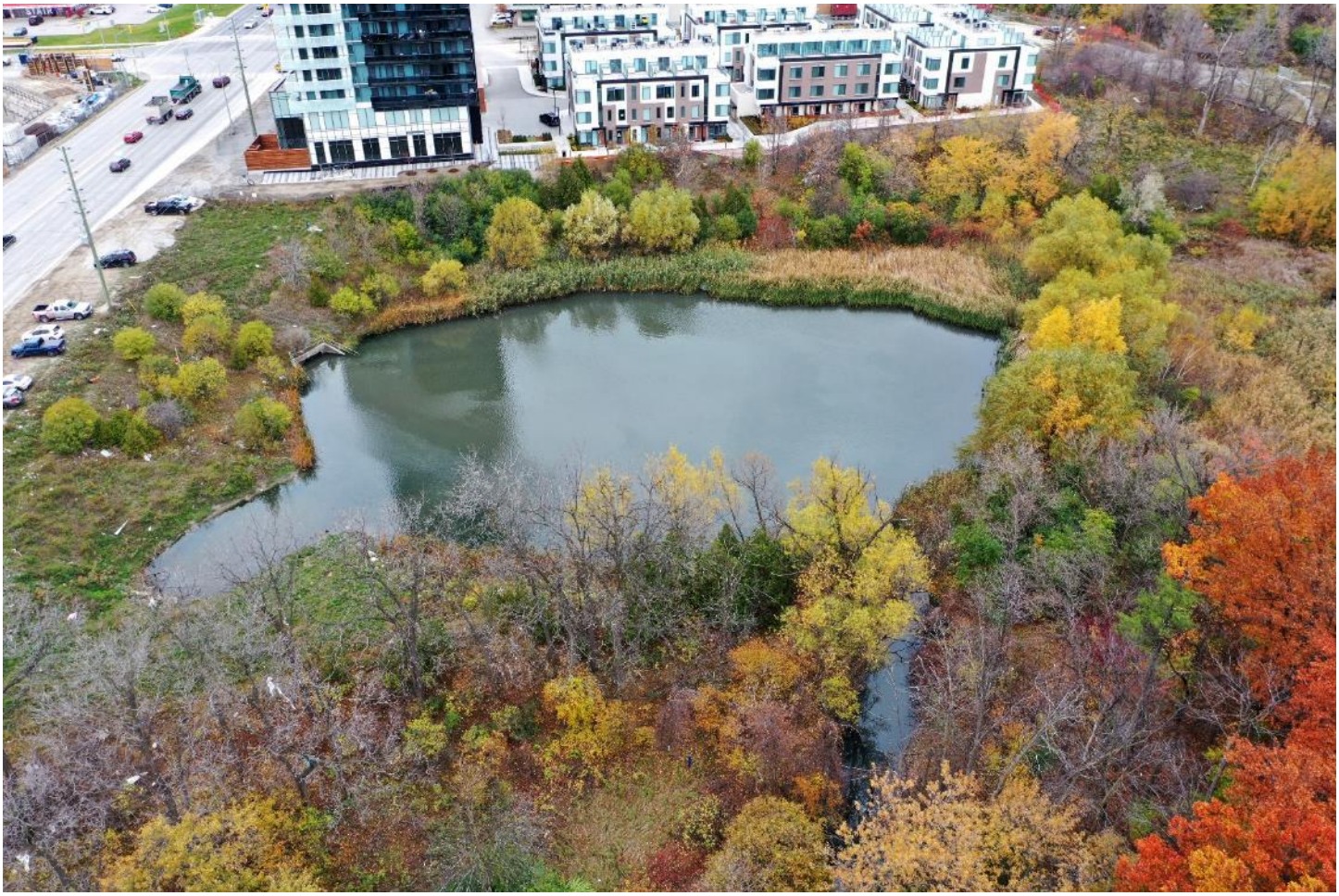


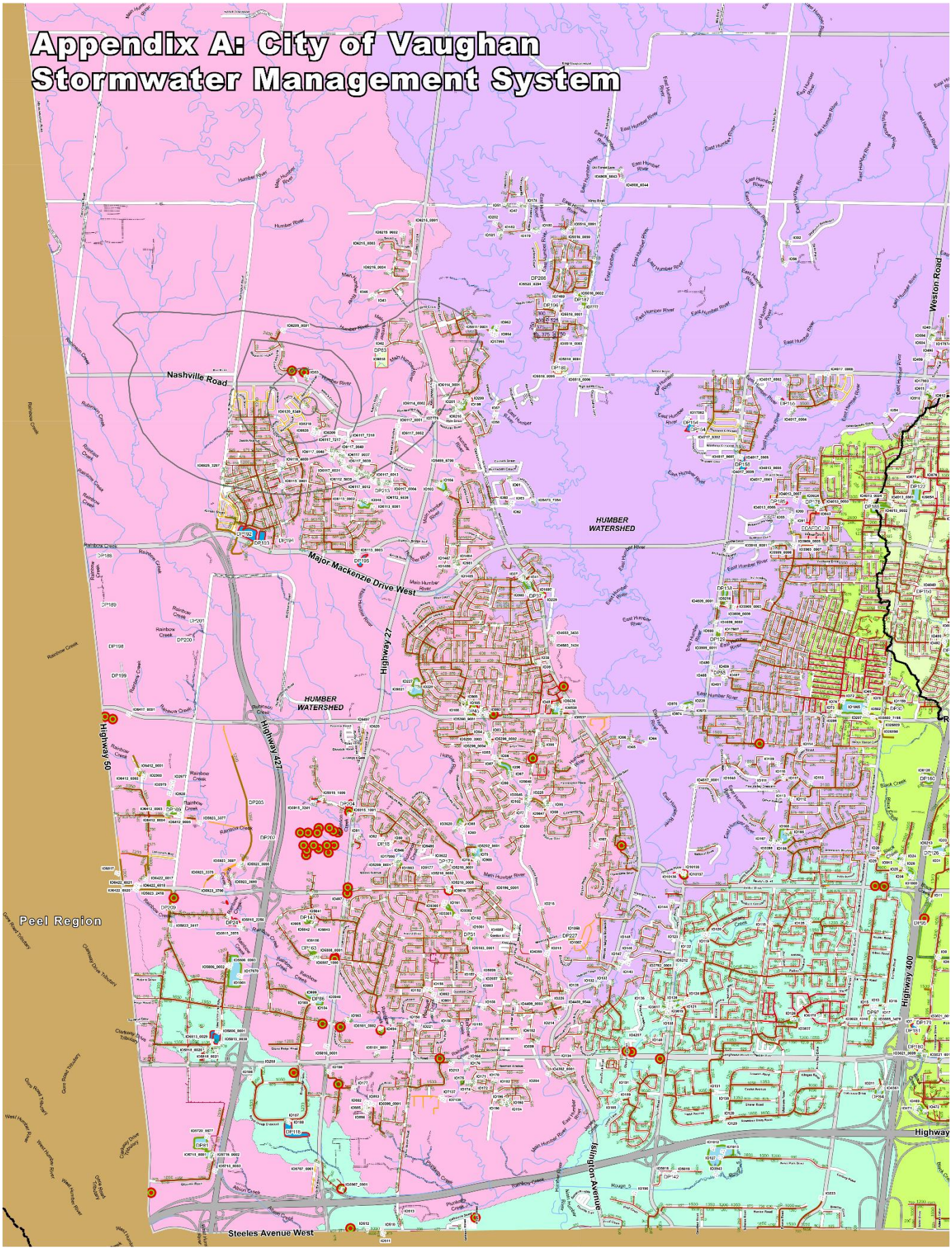
Table 10 provides a summary of the Status of Actions from the previous reporting year (Jan. 1, 2024, to Dec. 31, 2024).

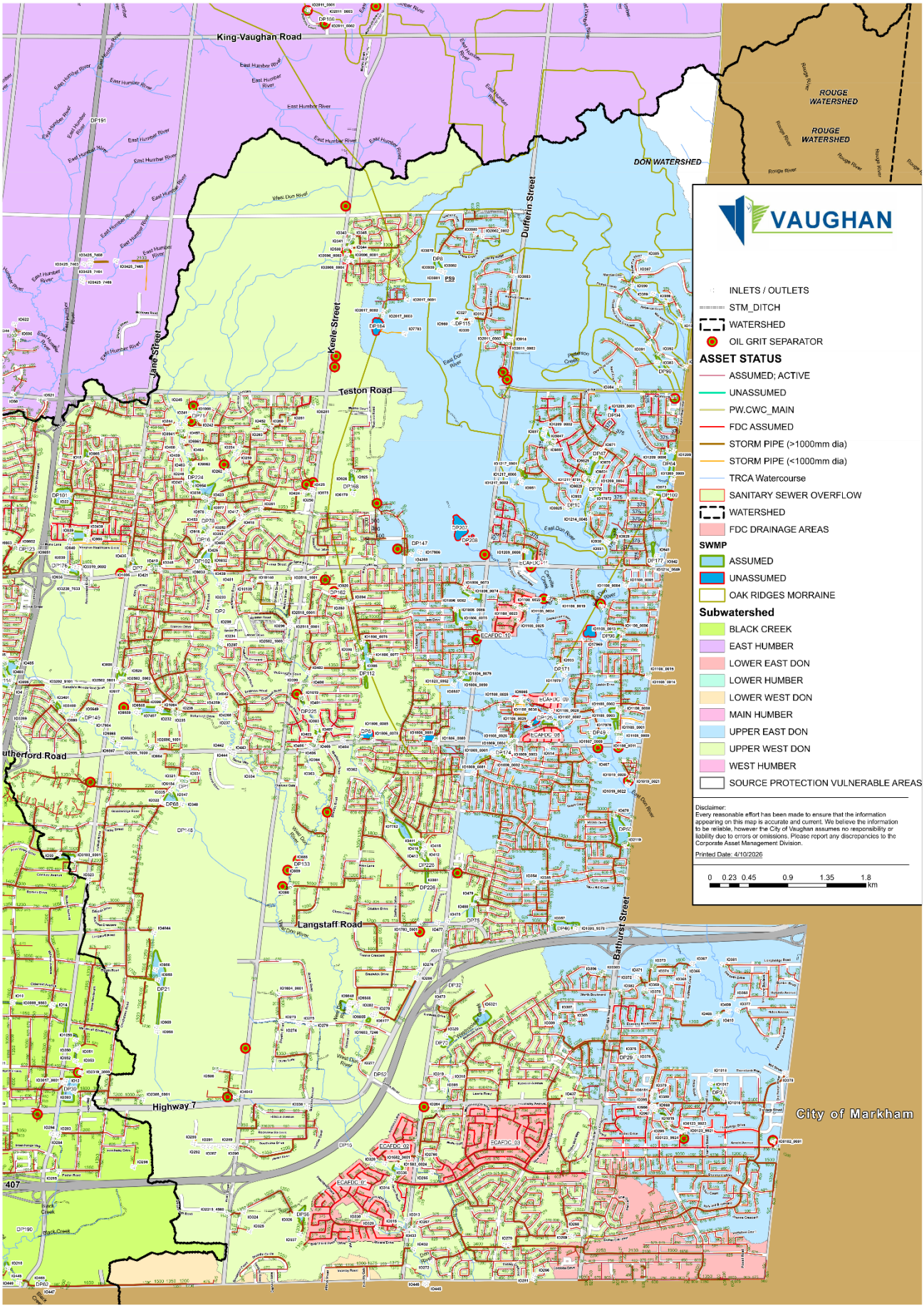
### Table 10: Summary of Actions Taken to Improve or Correct Performance of Any Aspect of the Authorized System

| Summary of Effort/Project | Description | Summary of the Status of Actions from the Previous Reporting Year (2024) |
|---|---|---|
| **Annual OGS inspections** | The program involved conducting comprehensive inspections of OGS units across the City to assess their condition, identify deficiencies and determine the need for cleanout. Based on the 2024 inspection findings, the cleanout process commenced in spring 2025. | A total of 17 OGS units were cleaned during the reporting year (2025). |
| **SWM pond clean-out drawings** | This project included obtaining all necessary permits from conservation authorities and preparation of SWM pond clean-out drawings in support of applicable permitting | Design work for all three stormwater management ponds has been completed. Technical support is currently being provided on an |

| Summary of Effort/Project | Description | Summary of the Status of Actions from the Previous Reporting Year (2024) |
|---|---|---|
| | requirements and tendering for clean-out and sediment removal services. | as-needed basis to support the contractor with ongoing clean-out activities. |
| **Westridge pond clean-out** | This project restored the pond's original design capacity to ensure the pond continues to meet its design objectives with respect to water quality and quantity. | The pond clean-out has been completed, and all identified deficiencies have been fully addressed. |
| **Bathymetric/Topographic survey services for various SWM ponds** | The project involved conducting bathymetric and topographic surveys to assess sediment accumulation in 74 stormwater management (SWM) ponds, comparing the findings to the ponds' original design capacities. Additionally, the project included condition assessments of the surveyed ponds and the development of a clean-out prioritization forecast. | The final survey report has been prepared. Pond ranking and prioritization for future sediment clean out projects have been completed using the survey findings in conjunction with other applicable operational, environmental, and asset-management considerations. |
| **Culvert rehabilitation, removal and replacements at various locations** | This project involves the rehabilitation of existing municipal culverts to maintain them in a state of good repair, based on condition deficiencies identified through biennial Ontario Structure Inspection Manual (OSIM) inspections. The work restores structural integrity and ensures reliable stormwater conveyance, reducing risks associated with blockage, erosion, and localized flooding. These improvements also help prevent potential road closures that could result from culvert deterioration or failure, supporting safe and continuous transportation operations. | Active during the reporting period and ongoing. As part of this multi-year program, culvert sites restored in the previous reporting year include *Woodbridge Yard, Intersite Place and Millwood Parkway culverts.* |

# Appendix A: City of Vaughan Stormwater Management System




King-Vaughan Road
Teston Road
Langstaff Road
Rutherford Road
Highway 7
407
Jane Street
Keele Street
Dufferin Street
Bathurst Street
ROUGE WATERSHED
DON WATERSHED
City of Markham
VAUGHAN
INLETS / OUTLETS
STM_DITCH
WATERSHED
OIL GRIT SEPARATOR
ASSET STATUS
ASSUMED; ACTIVE
UNASSUMED
PW.CWC_MAIN
FDC ASSUMED
STORM PIPE (>1000mm dia)
STORM PIPE (<1000mm dia)
TRCA Watercourse
SANITARY SEWER OVERFLOW
WATERSHED
FDC DRAINAGE AREAS
SWMP
ASSUMED
UNASSUMED
OAK RIDGES MORRAINE
Subwatershed
BLACK CREEK
EAST HUMBER
LOWER EAST DON
LOWER HUMBER
LOWER WEST DON
MAIN HUMBER
UPPER EAST DON
UPPER WEST DON
WEST HUMBER
SOURCE PROTECTION VULNERABLE AREAS
Disclaimer:
Every reasonable effort has been made to ensure that the information appearing on this map is accurate and current. We believe the information to be reliable, however the City of Vaughan assumes no responsibility or liability due to errors or omissions. Please report any discrepancies to the Corporate Asset Management Division.
Printed Date: 4/10/2026
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km

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