



London
CANADA

THE CORPORATION OF THE CITY OF LONDON

**2023 Annual Performance Report –
Municipal Stormwater Management System
Environmental Compliance Approval #006-S701**



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1. Overview

The Municipal Stormwater Management (SWM) System serving the City of London’s drainage area is a dedicated system for managing stormwater within the Thames River Subwatershed, which is part of the Lake Saint Clair and Lake Erie watersheds. This system includes storm sewers, culverts, ditches, Stormwater Management Facilities (SWMF), and outlets.

2. Summary and Interpretation of Monitoring Data and Environmental Trends

For the specified period, the City of London has no data to report regarding the municipal stormwater management system.

3. Summary of Operating Problems Encountered and Corrective Actions Taken

In 2023, the City of London addressed 30 work orders related to operational issues. Table 1 outlines the various operational problems encountered and the number of service requests for each issue.

Table 1: Different operating repairs completed in 2023

Operating Problem(s)	Number of Service Requests
Stormwater Management Facilities High Water Level Inquiry	5
Catchbasin	25

The public is encouraged to report any suspected operational problems through service requests. City staff will review and address these requests appropriately. Common service requests concerning high water levels at stormwater management facilities typically arise after rainfall events. Service requests related to catch basins often involve debris clearing from grates or the flushing of catch basin leads.

4. Summary of all Inspections, Maintenance, and Repairs on the Authorized System

Table 2 outlines the various inspection and maintenance activities performed in the City of London in 2023, along with the total number of each activity.

Table 2: Summary of maintenance activities on the stormwater management system in 2023

Maintenance Activity	Total
Storm Sewer Flushed (m)	1,319
Storm Manholes Inspected (#)	281
Storm Main Spot Repair (#)	9
Storm Main Replacement (#)	3
Storm Manhole Repair (#)	7
Storm Manhole Replacement (#)	4
Catchbasin Cleaning (#)	12,359
Catchbasin Repair – Including frame and grates (#)	26
Catchbasin Replacement (#)	14
Stormwater Management Facility & Channel Inspections (#)	76
Inlet/Outlet Inspections (#)	808
Ditch Inlet Catchbasin Cleaning (#)	801
Storm Sewer Appurtenance Inspections (#)	223
Oil and Grit Separator Cleaning (#)	65

5. Summary of any Public Complaints Related to Stormwater Works and Corrective Actions Taken

To track public complaints, the City of London utilizes the Microsoft 365 Customer Relationship Management (CRM) system. In 2023, the city received a total of 43 service requests from the public, as shown in Table 3.

Table 3: Summary of public complaints and actions taken

Type of Service Request	Number of Service Requests
Stormwater Management Facilities - High Water Level Inquiry	5
Stormwater Management Facilities - Garbage or Debris Complaint	9
Inlet/Outlet Clearing Inquiry	3
Catchbasin Inquiry	25
Odour Complaint	1

6. Summary of Alterations to the Authorized System

This section summarizes all changes made to the Authorized System during the period from January 1, 2023, to December 31, 2023. Table 4 displays the different alterations made to the authorized system.

Table 4: Summary of Alterations Made to the Authorized System

Street Name	Limits	Type of Work	Form	Description
Quebec Street	Oxford Street to Salisbury Street	Capital work	SW1	Proposed 450mm, 1350mm diameter storm sewers, and appurtenances on Quebec Street from Oxford Street to Salisbury Street to service a 39.88 hectares area, including proposed 825mm diameter storm sewers & appurtenances on Mornington Avenue and 525mm diameter storm sewers and appurtenances on Salisbury Street.
Lyle Street Elizabeth Street	Dundas Street to King Street Queen Avenue to Dundas Street	Capital work	SW1	A replacement of sewers along Elizabeth Street from Queens Avenue to Dundas Street, which will include approximately 108 meters of new 825mm and 900mm storm sewers and appurtenances. Furthermore, sewer replacement will occur along Lyle Street from Dundas Street to King Street, including approximately 122 meters of new storm sewers ranging from 600mm to 825mm in diameter, along with their respective appurtenances.
Platt's Lane	Oxford Street West to Cherryhill Place	Capital work	SW1	The storm sewer works include the construction of 300mm - 525mm diameter storm sewer, storm sewer appurtenances, and storm sewer private drain connections to replace existing infrastructure on Platt's Lane.
McKenzie Avenue Baker Street	Wortley Road to Ridout Street Ridout Street to Belgrave Street	Capital work	SW1	McKenzie Avenue (Wortley Road to Ridout Street): Storm -196.0 meters of 375mm. McKenzie Avenue (Ridout Street to Belgrave Avenue): Storm - 46.2 meters of 400mm and 180.7 meters of 375mm pipes. Baker Street (Ridout Street to Belgrave Avenue): Storm - 75.2 meters of 450mm,

Windsor Avenue	Ridout Street to Belgrave Street			69.1 meters of 400mm, 72.1 meters of 375mm pipes. Windsor Avenue (Ridout Street to Belgrave Avenue): Storm - 220.0 meters of 450mm pipes.
Paardeberg Crescent, Flanders Row, and Rhine Avenue	Whole streets	Capital work	SW1	The scope of work includes the installation of new 300mm to 825mm storm sewers on Paardeberg Crescent, Flanders Row, and Rhine Avenue.
Paardeberg Crescent, Flanders Row, and Rhine Avenue	Whole streets	Capital work	SW2	Paardeberg Crescent, Flanders Row, and Rhine Avenue scope includes the installation of two new infiltration galleries, one on Flanders Row and one on Paardeberg Crescent, as well as five new bioretention cells, two on Paardeberg Crescent, one on Flanders Row, and two on Rhine Avenue.
Regent Street Fraser Avenue	Colborne Street to Maitland Street Regent Street to Huron Street	Capital work	SW1	The project includes the replacement of storm sewers and maintenance holes on Regent Street from Colborne Street to Maitland Street (236 meters) and Fraser Avenue from Regent Street to Huron Street (110 meters). 346 meters of new storm sewers will be installed (110 meters of 300mm diameter, 15 meters of 750mm diameter, and 221 meters of 975mm diameter pipes). Existing services will be replaced to 2 meters behind the back of the curb and connected to the new storm sewers. The proposed storm sewers will connect to the existing upstream sewers on Colborne Street and outlet to the existing storm sewers on Maitland Street and service 13.69 hectares.

Regent Street Fraser Avenue	Colborne St to Maitland St Regent Street to Huron Street	Capital work	SW2	The project includes installing new LID features on Regent Street. Three infiltration galleries of varying sizes are proposed. Road drainage is directed to the galleries through a connection at the back of the catch basins. The galleries include a surface cleanout, isolation valve, and inspection port. The three galleries have a combined storage potential of 27.7 cubic meters and have been designed to provide water quality improvements for all storm events up to and including the 5-year storm event.
Liberty Crossing	Subdivision	Development work	SW1	Storm sewers are to be constructed to service the Liberty Crossing Residential Subdivision 99 single-family homes, 1 medium-density street-fronting townhouse block, and a medium-density condominium block (to be serviced internally by others at a later date) along Green Bend, Liberty Crossing, and Calhoun Way. Sizes of the internal storm sewers vary in size from 300mm to 675mm diameter servicing 4.47ha of the subdivision. Two outlets are provided, to an existing natural area on the west property limits, and a proposed dry-basin SWM facility on the east side of the project site. A storm sewer stub is provided to Block 101. Sewers within the roads are to be assumed by the Municipality.
Liberty Crossing	Subdivision	Development work	SW2	The proposed SWM facilities for the Liberty Crossing Residential Subdivision include bioswales along the rear property lines (i.e., LID 100, 101, 102, 203, and 300, including the StormBrixx Unit), bioretention facility (LID 1) within the cul-de-sac of Green Bend, underground

				exfiltration chambers (LID 201/202) along Liberty Crossing providing water balance from the rear-yards, OGS unit (MECP Level 1), and a dry-basin SWM facility providing quantity control to match post-to-pre-development peak discharge rates for the 2-year through 250-year design storm events.
6019 Hamlyn Street (Sunningdale Court)	Subdivision	Development work	SW1	Phase 2 – Valleyview Walk – An approximate 83 meters extension of 300mm diameter sewer in front of Block 33-2. Subsequently, 3 nearby downstream sewers were increased in diameter; Phase 3 – Creekview Chase – An approximate 83 meters extension of 300mm diameter in front of Block 35-3. Subsequently, the next downstream sewer was increased in diameter by 1 size.
Talbot Village North of Old Garrison Road (between Colonel Talbot Road and Bostwick Road)	Subdivision	Development work	SW1	This project involves the servicing of a 108-lot residential subdivision located on the north side of Old Garrison Road, between Colonel Talbot Road and Bostwick Road. This is Phase 7 of the Talbot Village Subdivision and is a northern extension of the existing development. Proposed sewers will vary in size from 300mm to 1500mm and will provide service to the 108 proposed lots, park block, and connection points to service future upstream development. The current development area is 8.15 hectares, but storm sewers have been sized to handle a future external development area of 10.26 hectares.
584 Commissioners Road	Subdivision	Development work	SW1	584 Commissioners Road is a 0.44-hectare townhouse development with 26 units. The proposed works include the 80.2 meters storm sewer extension and

				connection on Commissioners Road at the intersection of Westmount Crescent plus minor flows from the 0.54 hectares drainage area are conveyed to the proposed 300mm diameter storm sewer running from the site entrance to Westmount Crescent, connecting to the existing manhole and 375mm diameter storm sewer. Major flows will drain along Commissioners Road. Flows ultimately convey to the Thames River.
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7. Summary of all Spills or Abnormal Discharge Events

There were 36 incidents that occurred in the City of London Stormwater Management System. A summary of those events is shown in Table 5 with all the details.

Table 5: Collection system overflows and spills happened in 2023

Spills/Abnormal Discharge	Total
Environmental Spills – Reportable Events	36

8. Summary of Actions Taken to Improve or Correct Performance of the Authorized System

Table 6 provides a summary of the actions taken to improve the authorized system in 2023.

Table 6: Actions taken in 2023 to improve the authorized system

Name	GIS ID	Performance Improvement Action
Lambeth Meadows Channel	S-214-Channel	Full Sediment Removal
Pincombe Drain 1 Stormwater Management Facilities	S-094-Pond	Full Sediment Removal
River Road Industrial Stormwater Management Facilities	S-035-Pond	Full Sediment Removal
South River 2.3 Stormwater Management Facility	S-203-Pond	Full Sediment Removal
Sunningdale 4 Stormwater Management Facility	S-209-Pond	Forebay Sediment Removal

9. Summary of Actions Taken to Improve Performance of System for Previous Reporting Year

Not applicable to the initial report.