Peel Region
working with you

Welcome

Lower West Sanitary Trunk Sewer Twinning Project

Public Information Centre (PIC) #1

July 2025

Overview of PIC #1

01 Introduce the project background and the Municipal Class Environmental Assessment process

02 Study area information collected to date

03 Alternative sanitary trunk sewer routes being considered

04 Proposed evaluation criteria

05 Sanitary trunk sewer coordination and construction methods

06 Next steps

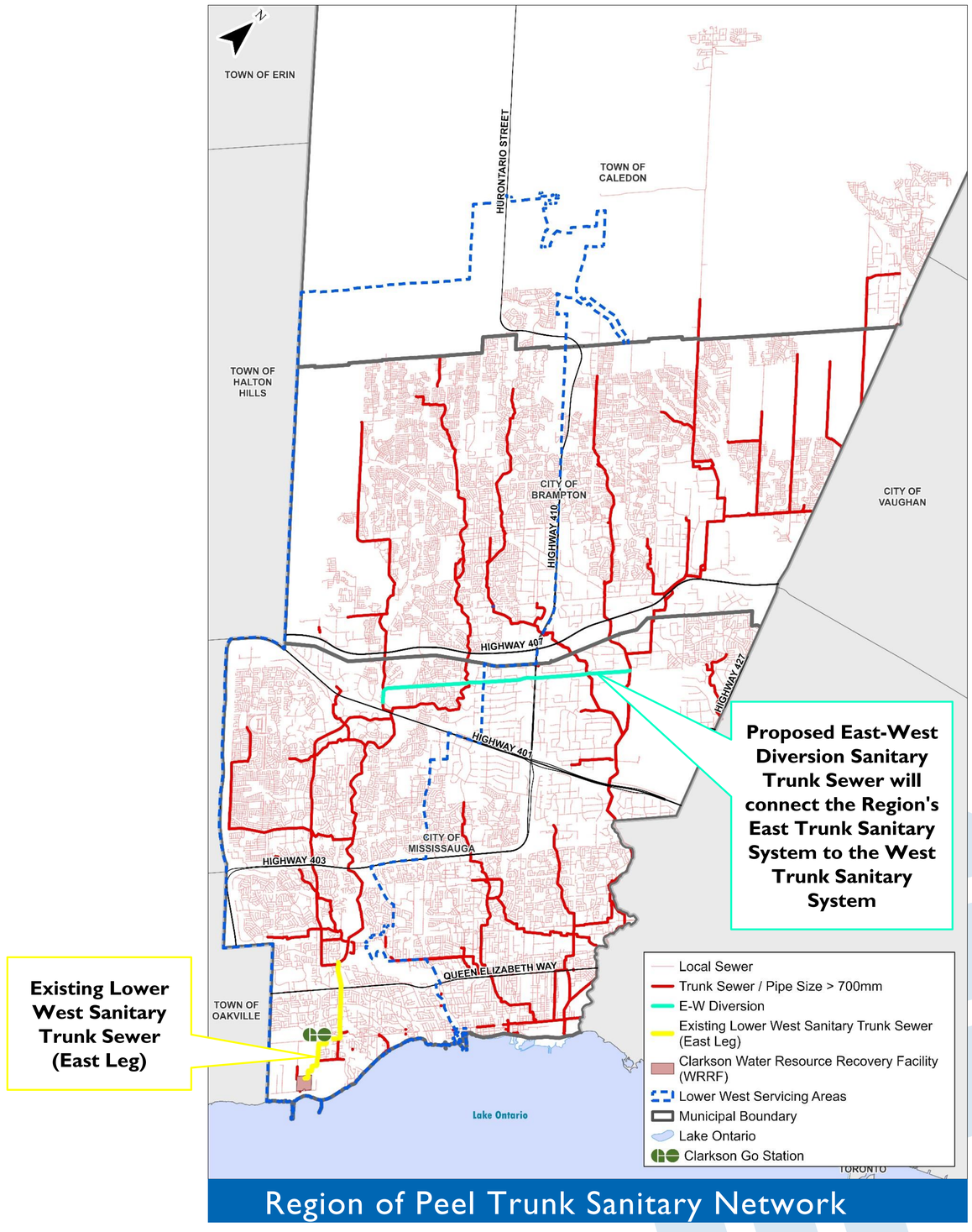
07 How we're planning to keep you involved

Background

The Region of Peel wastewater system consists of two separate gravity trunk sewer systems, including the East Trunk System and the West Trunk System, which terminate on the shores of Lake Ontario at the G. E. Booth Water Resource Recovery Facility and Clarkson Water Resource Recovery Facility, respectively.

With the Region's forecasted growth to 2051 and beyond as identified through their growth management process and the ongoing 2025 Waster and Wastewater Master Plan Update, there is a need for the Region to plan for the enhancement of the overall system capacity of the sanitary sewer system.

The focus of this study is to increase the wastewater conveyance capacity in the West Trunk System to service key development growth areas.



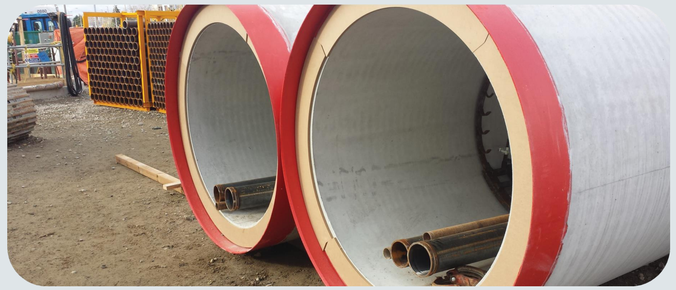
Region of Peel Trunk Sanitary Network

About the Lower West Sanitary Trunk Sewer Twinning Project

What is a Sanitary Trunk Sewer?

A large pipe that collects and moves wastewater by gravity from nearby and upstream development areas to wastewater treatment plants.

Designed to handle large volumes of wastewater, making them critical to maintaining public health and environmental quality.



Lower West Sanitary Trunk Sewer Twinning Project

The existing Peel Lower West Sanitary Trunk Sewer (East Leg) is an integral part of the West Trunk System and connects to the Clarkson Water Resource Recovery Facility. This existing sewer system does not have enough capacity to handle the expected increase in sewage from future growth.

To address this, the Region has initiated this Schedule Class Municipal Class Environmental Assessment study to provide additional sanitary capacity through the identification of a new alignment for a large diameter sanitary trunk sewer known as the Lower West Sanitary Trunk Sewer twinning.

The Project will allow wastewater flow to be shifted to the new 3500mm Lower West Sanitary Trunk Sewer and will connect the area of Sheridan Park Drive/ Lincoln Green Way and Erin Mills Parkway to the Clarkson Water Resource Recovery Facility to meet the long-term needs of the service area.

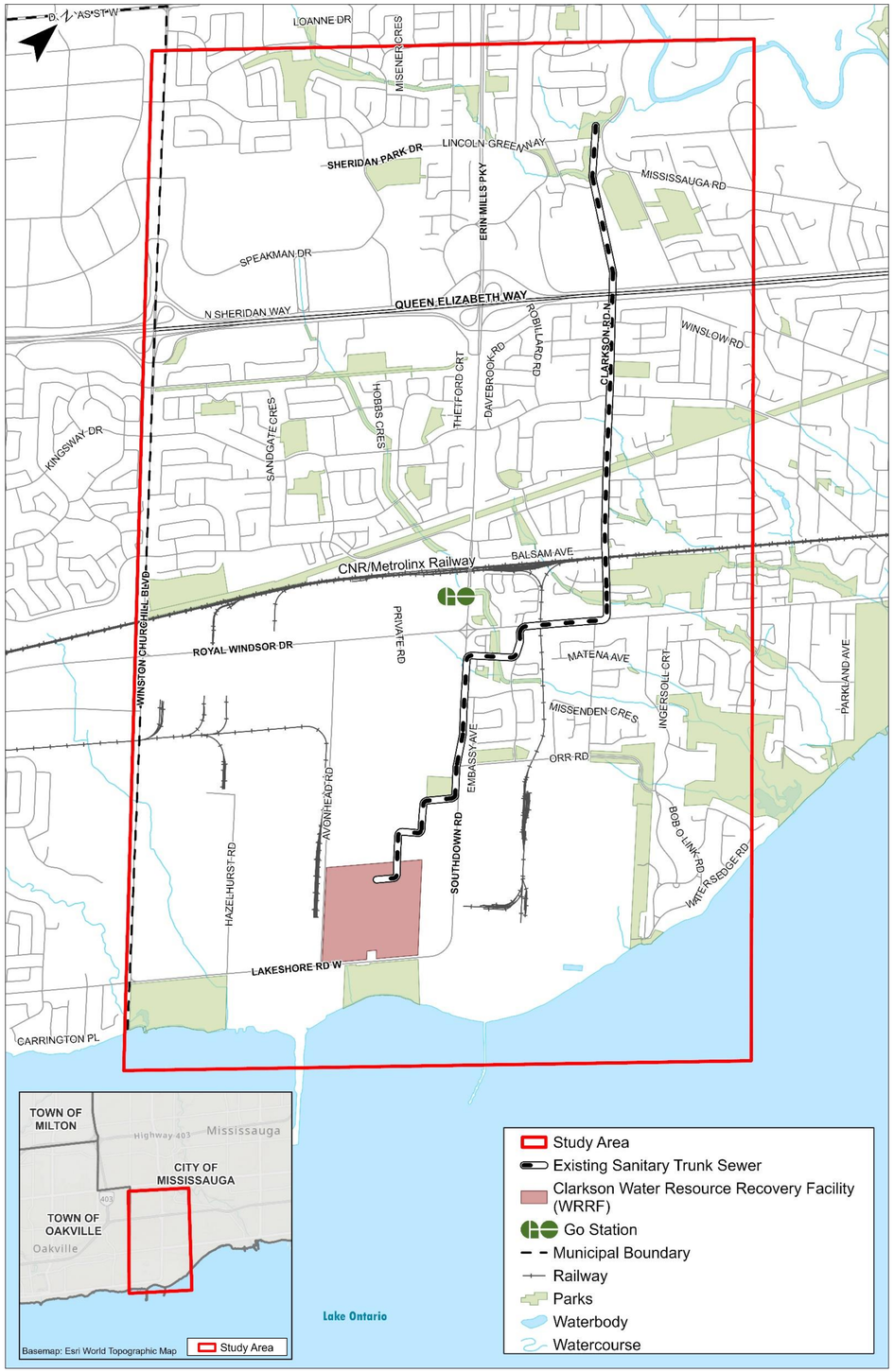
Study Area

The Study Area is primarily located in the City of Mississauga within the Region of Peel. The western boundary of the Study Area follows parallel to the Halton Region/Town of Oakville municipal boundary to include the Winston Churchill Boulevard right of way limits.

The Study Area limits have been defined generally as south of Dundas Street West to the north, west of Lorne Park Road to the east, Winston Churchill Boulevard to the west and Lake Ontario to the south.

These limits have been developed based on the requirement of connecting the proposed Peel Lower West Twinning alignment from the area of Sheridan Park Drive and Erin Mills Parkway/ Lincoln Green Way to the Clarkson Water Resource Recovery Facility.

The overall Study Area determination of wastewater flows will also consider the drainage areas for the west trunk system at all three municipalities: the Town of Caledon, City of Brampton, and City of Mississauga.



Municipal Class EA Schedule C Planning Process

July 2024 → **Spring 2026** → **2026 - 2032**

Phases

1 Problem and Opportunity

Review background planning and policy documents, identify study area needs, problems and opportunities.

Phase 1 has been completed:

- Background Review
- Define Study Area
- Problem and Opportunity Statement

2 Alternative Solutions

Review existing environment, identify and evaluate feasible alternative sanitary sewer routing alignment options, and identify a reduced set of feasible routing options referred to as the "short-list".

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3 Alternative Design Concepts

Evaluate short-list of routing alignments and confirm preferred solution. Develop and evaluate alternative design concepts for implementing the preferred solution, identify environmental impacts, mitigation measures, and select the recommended design alternative.

4 Environmental Study Report

Document the decision-making process in an Environmental Study Report and publish Notice of Study Completion for 30-day comment period.

5 Implementation

Complete the detailed design, tender and construction following the completion of the MCEA study and review period.

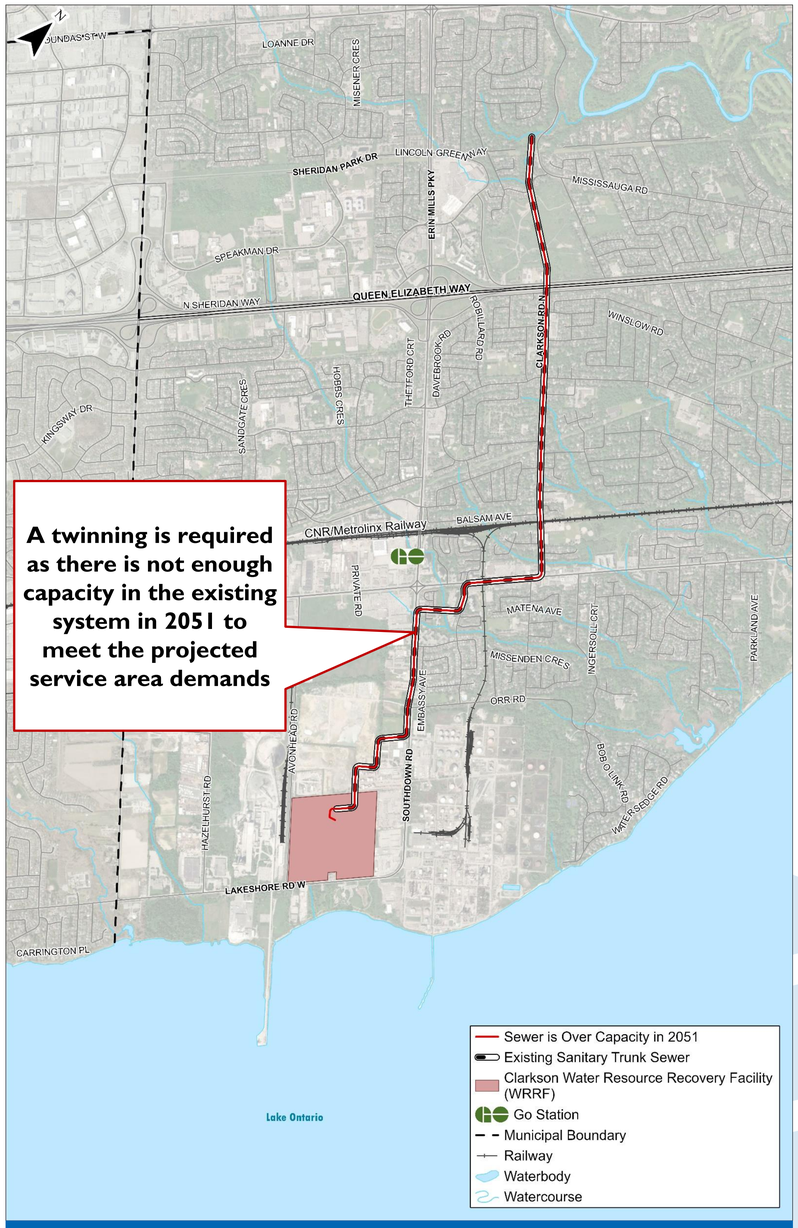
Continuous Consultation and Engagement

Problem and Opportunity Statement

There is insufficient capacity in the existing Lower West Sanitary Trunk Sewer to meet the projected 2051 service area demands. There is an opportunity to twin the existing Lower West Sanitary Trunk Sewer.

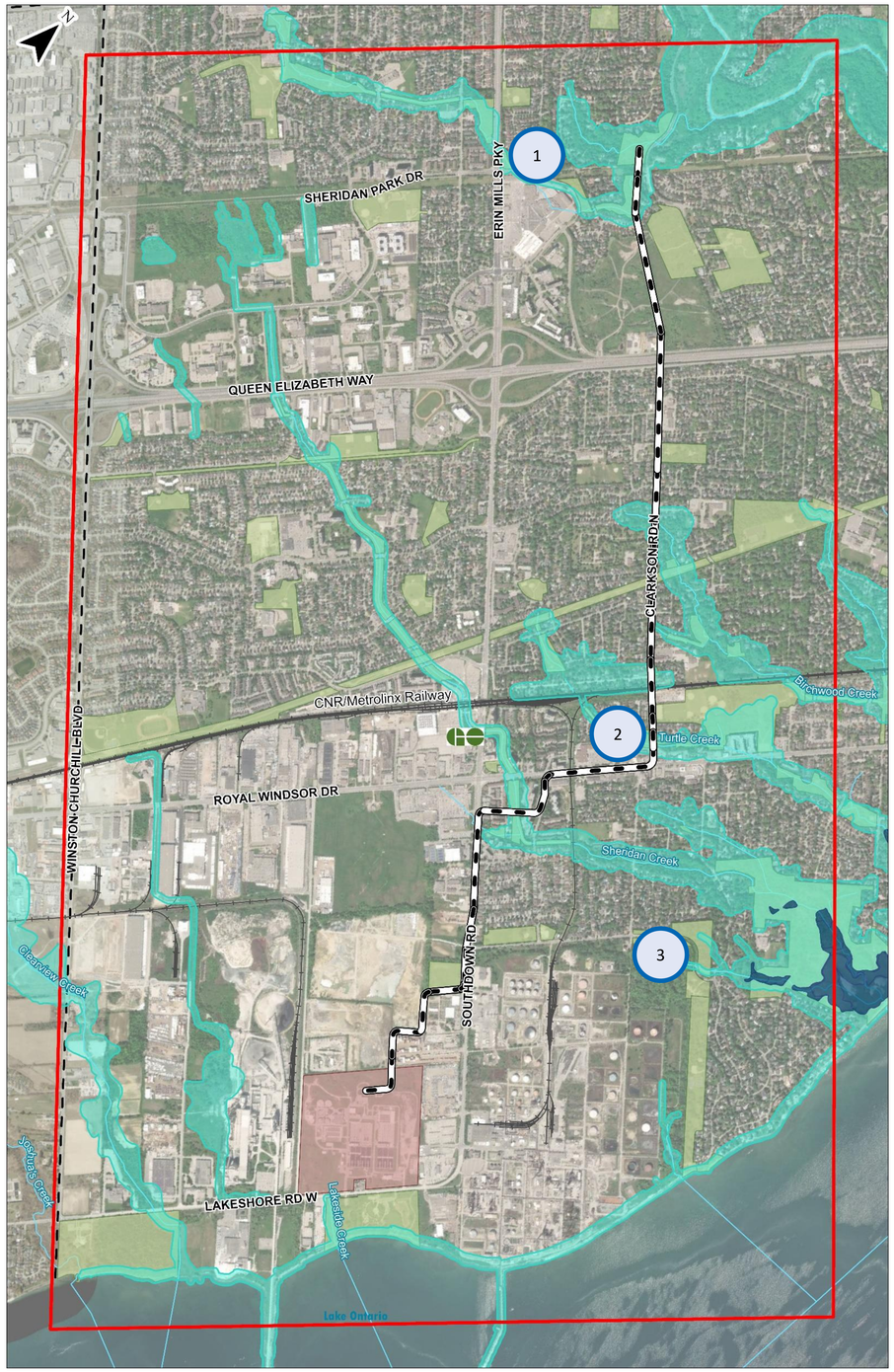
The Schedule C Municipal Class Environmental Assessment planning process provides the Region with the opportunity to:

- Develop and assess alternative solutions and design concepts to identify the preferred solution and design concept for the proposed sanitary trunk sewer.
- Consult key stakeholders, including review agencies, Indigenous communities, and the public to inform the decision-making process.
- Coordinate design and construction with other planned Region and City of Mississauga infrastructure projects. This includes, among others, the connection to the Clarkson Water Resource Recovery Facility headworks and any potential planned connections identified in the Region's Block 1 Study.
- Improve the overall level of wastewater servicing to meet the needs of existing customers and future projected growth.
- Inform the Region's current update to the 2025 Water and Wastewater Master Plan, and future Development Charges Background Study and By Law Update.
- Support the Region's East-West Diversion strategy and improve system operational flexibility.



Existing Lower West Sanitary Trunk Sewer with future 2051 Population Projection

Existing Natural Heritage Features

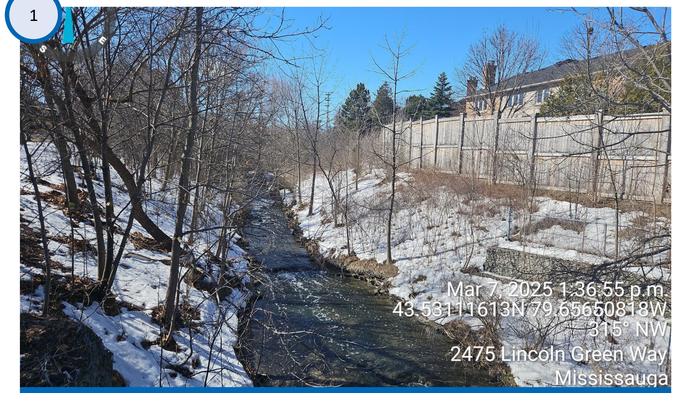


Natural heritage features that need to be considered in selecting and designing the preferred sanitary trunk sewer route include potential impacts to significant wetlands, woodlands and watercourses, including fish and critical fish habitat.

Legend

- Study Area
- Existing Sanitary Trunk Sewer
- Go Station
- Municipal Boundary
- Credit Valley Conservation Authority Regulation Limit
- Evaluated-Provincial Wetland
- Railway
- Parks
- Watercourse
- Peel Region Clarkson Wastewater Treatment Plant

1



Lincoln Hollow, located at the intersection of Erin Mills Parkway and Lincoln Green Way. Upstream portion of the watercourse

2

Downstream portion of Turtle Creek located along Clarkson Road North of Lakeshore Road West

3

Forest community located on the east side of the intersection of Orr Road and Clarkson Road South

Other Supporting Studies Planned to be Completed in Phases 2 & 3

Stage 1 and 2 Archaeological Assessments

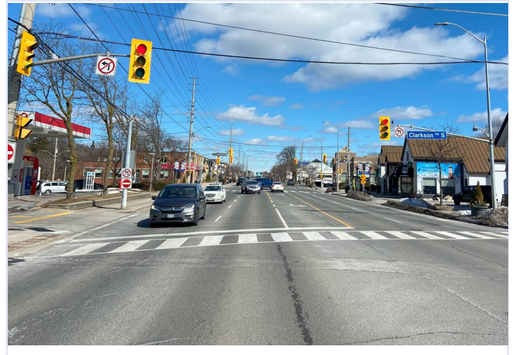
Cultural Heritage Report

Desktop Geotechnical and Hydrogeological Studies

Natural Heritage Report and Geomorphological Assessment

Socioeconomic Baseline

Hydraulic Modelling to Inform Sanitary Trunk Sewer Size Requirements



Traffic Impact Assessment

Phase 1 Environmental Site Assessment

Sanitary Trunk Sewer (STS) Routing Methodology

1. Establish grid of existing road right- of-way (ROW) and public utility corridor segments between major intersections with a minimum width of 20 metres.

2. Identify and screen long-listed routes connecting STS from the area of Sheridan Park Drive and Erin Mills Parkway/ Lincoln Green Way to the Clarkson Water Resource Recovery Facility.

3. Identify short-listed routes. Key considerations include constructability challenges and connections to existing and future trunk and sub trunk sewers.

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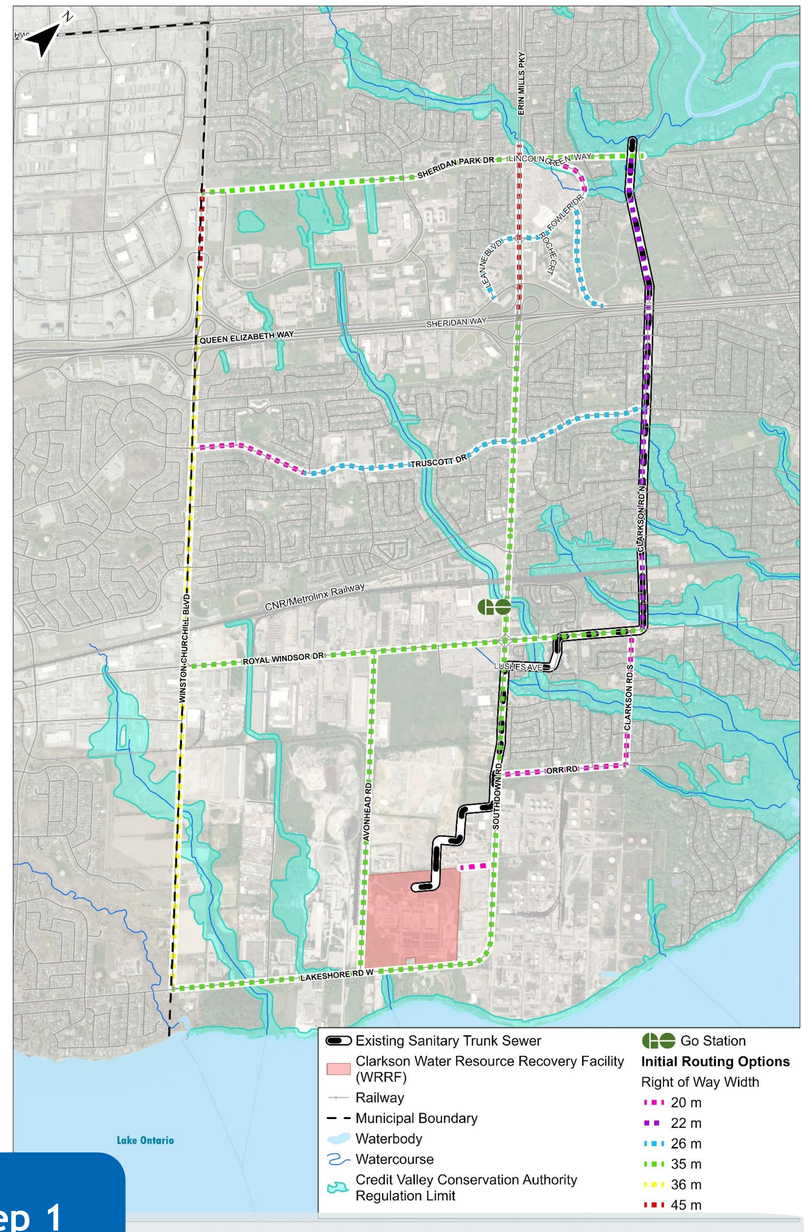
4. Evaluate short-listed routes using Municipal Class Environmental Assessment evaluation criteria to identify the preferred solution.

5. Identify and evaluate design concepts to implement the preferred solution. Clear corridor refinement considering location for tunnel shaft compounds. Identify permanent/ temporary easement requirements.

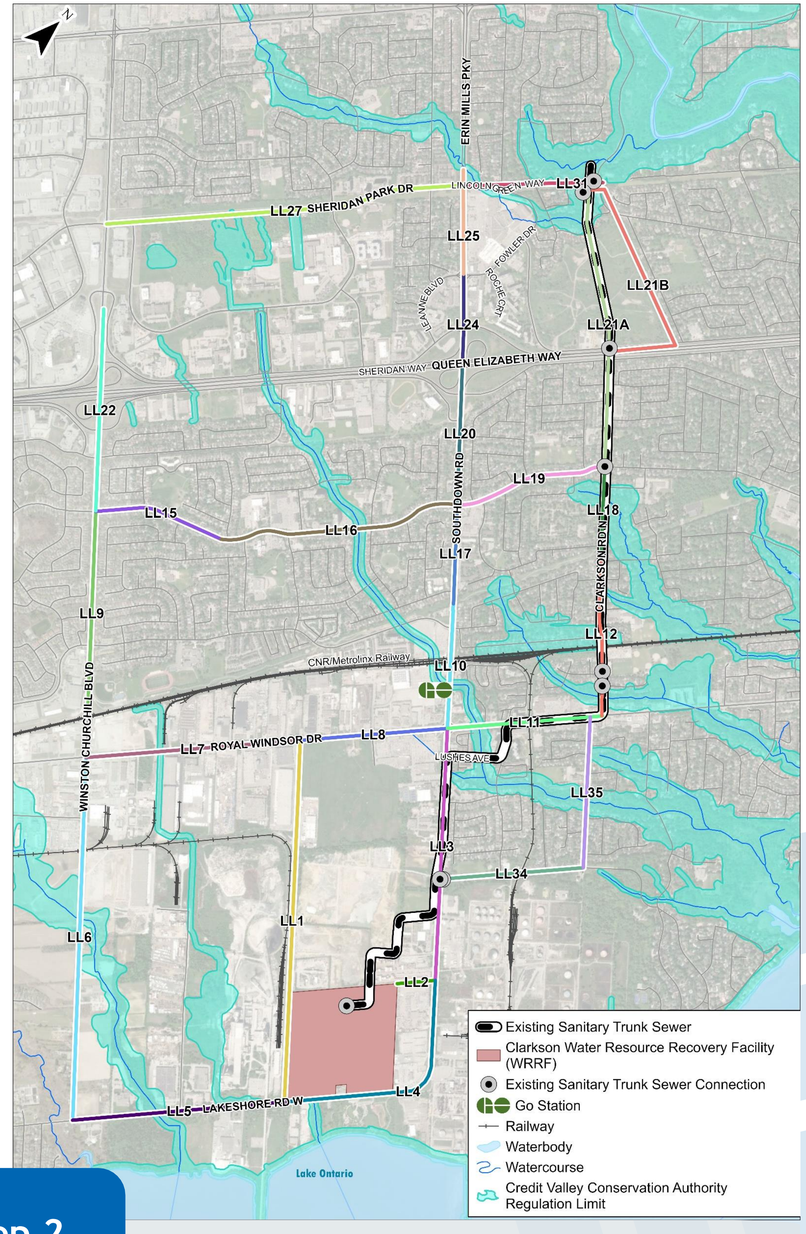
*The above steps are internal to the routing process methodology and are separate from the Municipal Class Environmental Assessment phases.

Long-Listed Alternative Right of Ways (ROWs) Considered



Step 1

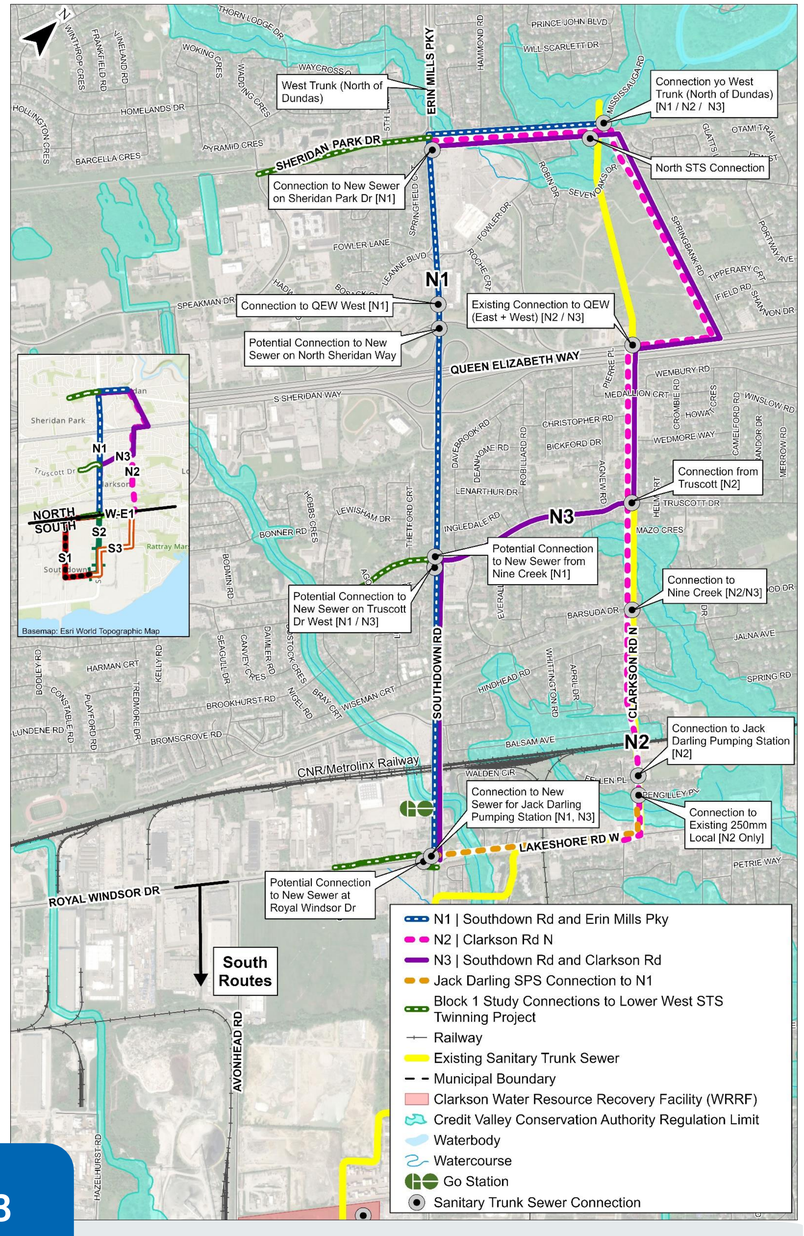
Establish grid of existing road right- of-way (ROW) and public utility corridor segments.



Step 2

Identify and screen long-listed routes.

Short-listed Routes - North



Route N1: Alignment follows Sheridan Park Drive and Lincoln Greenway to Erin Mills Parkway and Southdown Road. Approximate length of 3.1 km.

Route N2: Alignment follows existing Peel Lower West Sanitary Trunk Sewer Alignment along Springbank Meadows Park to North Sheridan Way and then Clarkson Road North. Approximate length of 4.2 km.

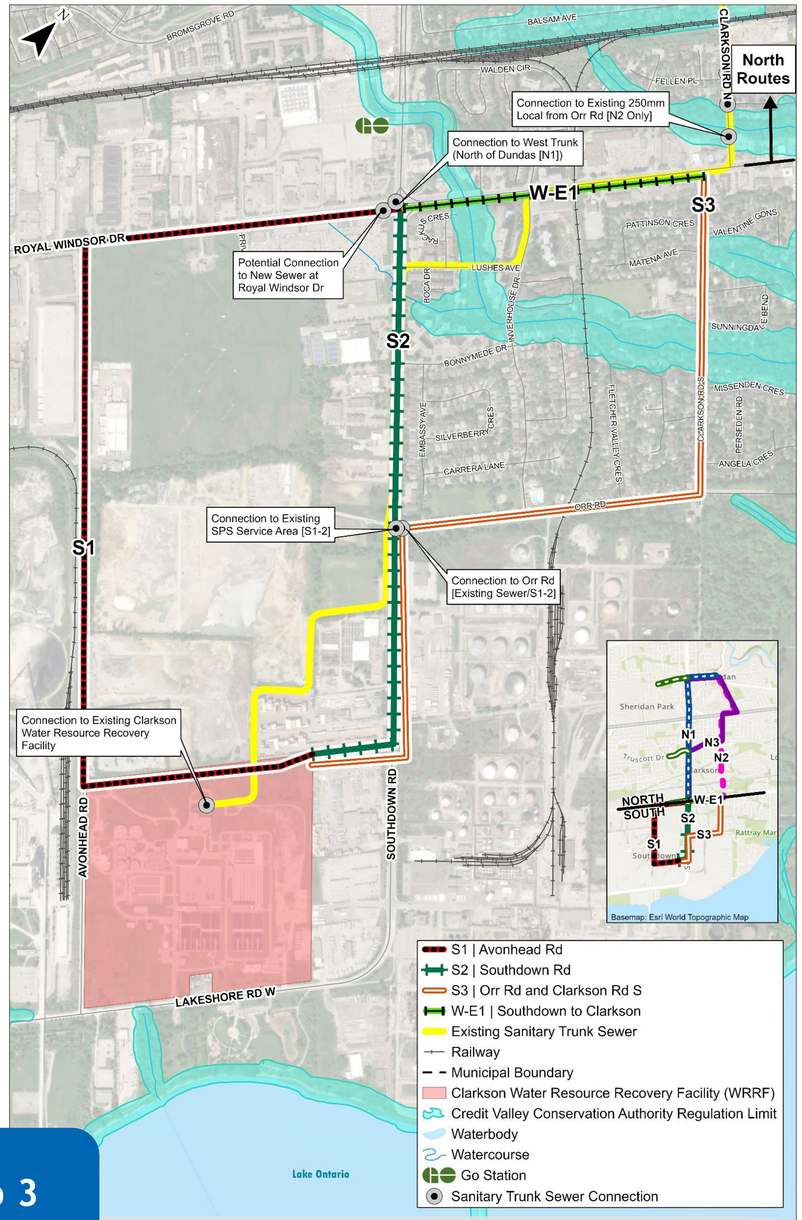
Route N3: Alignment follows existing Peel Lower West Sanitary Trunk Sewer along Clarkson Road North to Truscott Drive and then Southdown Road. Approximate length of 4.9 km.

* — All North Sanitary Trunk Sewer Routes will require local sanitary sewer improvements and connections based on the recommendations from the Region of Peel Block 1 Study.

Step 3

Identify short-listed routes (North).

Short-listed Routes - South



Route S1: Alignment follows Royal Windsor Drive to Avonhead Road and connects to the Clarkson Water Resource Recovery Facility. Approximate length of 2.9 km.

Route S1+W-E1: Alignment follows Royal Windsor Drive to Avonhead Road and connects to the Clarkson Water Resource Recovery Facility. Approximate length of 3.7 km.

Route S2: Alignment follows Southdown Road and connects to the Clarkson Water Resource Recovery Facility. Approximate length of 1.6 km.

Route S2 +W-E1: Alignment follows Southdown Road and connects to the Clarkson Water Resource Recovery Facility. Approximate length of 2.4 km.

Route S3: Alignment follows Clarkson Road South to Orr Road to Southdown and connects to the Clarkson Water Resource Recovery Facility. Approximate length of 2.5 km.

* All South Sanitary Trunk Sewer Routes will require to connect to the Clarkson Water Resource Recovery Facility.

Step 3

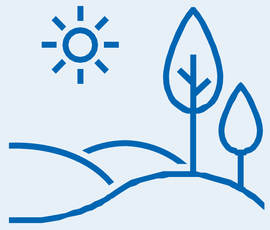
Identify short-listed routes (South).

Proposed Evaluation Categories and Criteria

As part of the short-list routing evaluation, our team will take into consideration technical, legal/jurisdictional, socioeconomic, environmental and economic/financial constraints and look for opportunities to use road allowances and available utility corridors, in addition to open areas, to minimize impacts from tunnel shaft compound construction.

Legal/ Jurisdictional

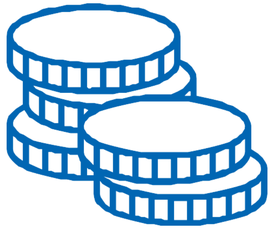
Cultural Heritage and Archaeology



Natural Environment and Climate Change

Technical

Socioeconomic



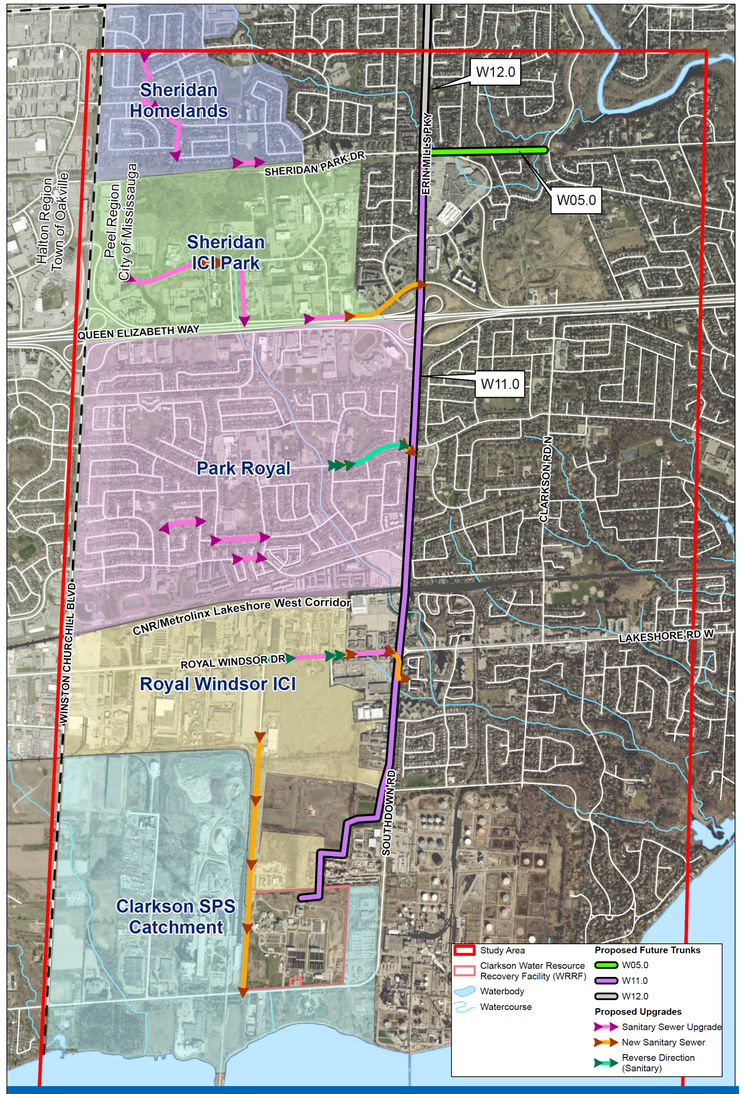
Economic/ Financial

Coordination with Planned Improvements

Block 1 Study

Alternative Sanitary Trunk Sewer Routes will consider the 2022 Block 1 Study recommendations for connections to the new sanitary trunk sewer.

This will ensure a coordinated approach to support system-wide proposed capacity improvements.



Block 1 Study Recommendations

Clarkson Water Resource Recovery Facility Improvements

The proposed sanitary trunk sewer will connect to the Clarkson Water Resource Recovery Facility to provide additional capacity and redundancy in the systems.

Alternative Sanitary Trunk Sewer Routes will consider the constraints regarding location of the headworks and the current and future expansion of the facility.

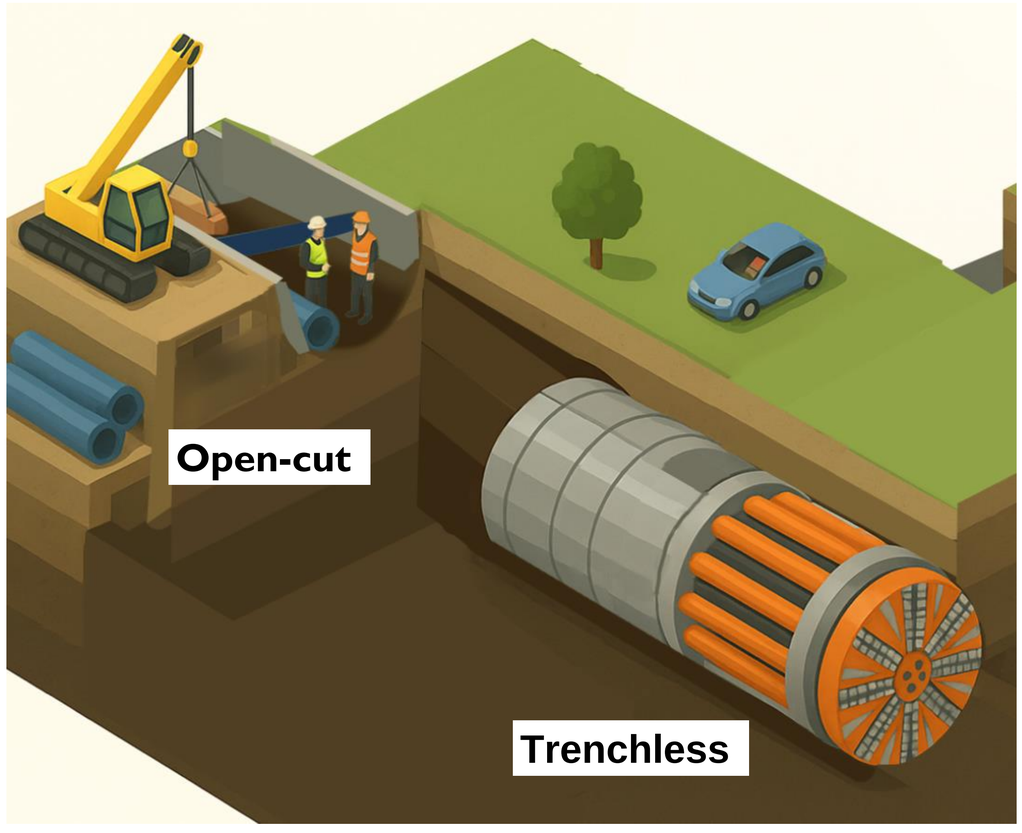

Clarkson Water Resource Recovery Facility

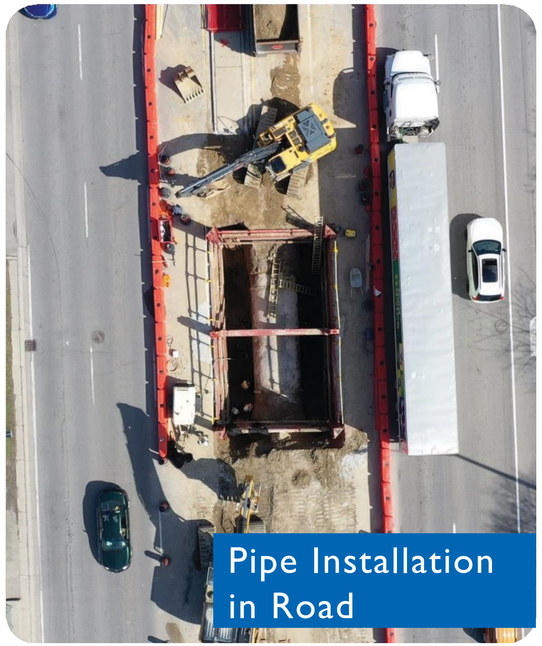
The Region's system-wide upgrades are being coordinated with this project and support future demand projections.

Construction Methods

It is envisioned that the majority of the proposed sanitary trunk sewer alignment will be constructed in the existing right-of-way, however, permanent and temporary easements will be required where work is outside of the right-of-way and for setting up the shaft compounds.

The proposed sanitary trunk sewer is anticipated to be between 5 m to 40 m deep and constructed by primarily trenchless tunnel method. Segments south of Lakeshore Road are envisioned to be constructed by open cut.





Pipe Installation in Road

Pedestrian traffic management

Tunnel construction includes shaft compounds and open cut connections to trunk and sub trunk sewers along the preferred route.

- Each shaft compound will require a staging area where construction equipment and materials can be stored and excavated material can be brought to the surface for disposal (i.e., hauled away in trucks).
- Staging areas will be required and fenced off for safety. Once tunnelling operations are completed, the staging area will be restored to original condition or better.
- Tunnel shaft locations will require traffic management measures. Consideration will be given to constructability, potential effects to adjacent properties, and the travelling public.

Project Progress

Summer 2024

Phase 1
Problem or Opportunity

- Identify Problem or Opportunity

Winter 2024/2025 - Fall 2025

Phases 2 and 3
Alternative Solutions and Design Concepts

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Notice of Commencement and PIC #1
July 10, 2025

- Project background
- Study area
- Short list of alternative routes
- Proposed evaluation criteria
- Construction methods
- Next steps

Notice of PIC #2
Fall 2025

- Evaluate short-listed routes
- Identify recommended preferred solution for the north and south route alignments
- Identify and evaluate design concepts, including construction methods
- Proposed mitigation measures
- Next steps

Winter 2025 - Spring 2026

Phase 4
Environmental Study Report

Prepare and file Environmental Study Report and Notice of Study Completion

30-day review and commenting period

2026 - 2032

Phase 5
Implementation

Detailed design, tender and approvals, and construction

Pending permits, approvals and property acquisition, construction to start in 2027

Dates and timelines are approximate and may be subject to change

Ongoing consultation and engagement

Stay Connected and Involved

Thank you for your interest in learning about Lower West Sanitary Trunk Sewer Twinning project

- Visit our webpage for more detailed information about the study: https://peelregion.ca/construction/environmental-assessments/lower-west-sanitary-trunk-sewer-twinning
- Join our mailing list – leave us an email or mailing address so we can keep you up to date.
- Please send us your comments or feedback about this PIC #1 by July 25.

Sign up for the mailing list or send any feedback, questions or concerns to:

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Feedback collected on this study will conform with the Freedom of Information and Protection of Privacy Act. It will be documented as part of this study and may be publicly available.