WELCOME

Open House:

Lornewood Creek Sanitary Sewer

Class Environmental Assessment

May 7, 2008

St. Stephen's-on-the-Hill United Church

Region of Peel
Working for you

Associated Engineering

Lornewood Creek Class Environmental Assessment

OPEN HOUSE

For:

Lornewood Creek Sanitary Sewer

Class Environmental Assessment

May 7, 2008

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Welcome!

Welcome to our Open House for the Lornewood Creek Sanitary Sewer Class Environmental Assessment Study (Class EA) for improving the existing sewer from the intersection of Streambank Drive and Saginaw Crescent to the intersection of Queen Street West and Ibar Way, South of the CNR Tracks.

This project is being conducted by *Associated Engineering (AE)* for the *Region of Peel (the Region).*

Public participation is an integral part of the study process. We encourage you to provide us with any comments or concerns you may have.

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Why Are We Here?

The Objectives of this Open House are:

- To present the alternatives being considered for sewer improvements and review the criteria under which the alternatives will be evaluated
- To provide an overview of the Class Environmental Assessment Process
- To provide an opportunity for the public to meet Project Team members and discuss issues and any concerns they may have
- To provide a forum for further comments and receive input from the public and interested agencies

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How Do You Participate?

All Attendees at this Open House are Invited to:

- Sign-in at the front desk
- Meet with Project Team members
- Review the proposed alternatives
- Discuss the design concept, impacts on properties, community benefits, and any other issues that you may feel are important
- Complete a study "Comment Sheet" to submit your questions, concerns, and other comments concerning the project

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Purpose of Study

- The existing 300 mm, 375 mm and 450 mm sewer is located in the Lornewood Creek valley from Streambank Drive at Saginaw Crescent to Queen Street West at Ibar Way.
- It is presently experiencing both internal stress from deposition, pipe movement, and root action and external stress from erosion of the creek that is reducing the cover depth over the pipe and exposing the pipe at several locations along its length.
- The purpose of this study is to evaluate alternatives and identify the preferred solution to improve the present condition or replace sections of the Lornewood Creek sanitary sewer.

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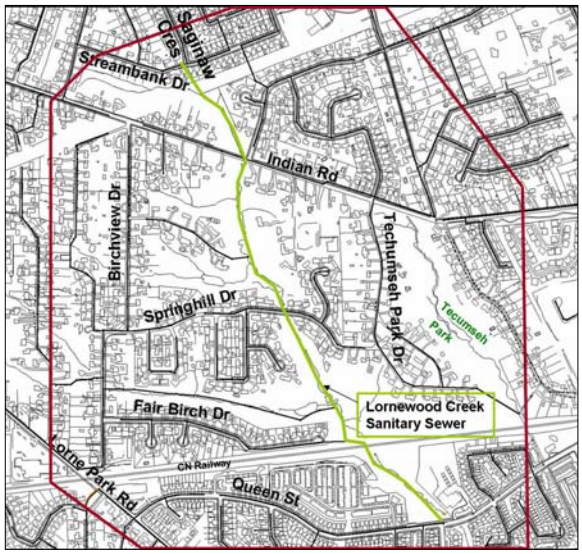
Study Area



Legend

- Study Area Boundary
- Existing Sewer Alignment

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Justification

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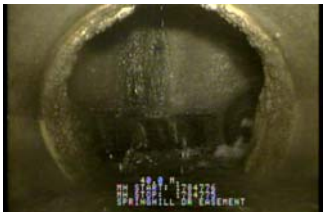
Justification

Encrustation

Joint Displacement



Infiltration

Root Intrusion

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Alternative 1

Do Nothing

- Description:
  - No action in repairing or replacing the existing sanitary sewer along Lornewood Creek.
- Pros:
  - No need for investigations
  - No spending of capital dollars
- Cons
  - Continued deterioration through loss of support and wash out along creek
  - Places public at risk to a possible sewer break with continued deterioration
  - Potentially dangerous to flora and fauna in the valley

Alternative 2

Remove and Replace

- Description:
  - Remove existing sewer from current location and replace with new pipe located away from stream.
- Pros:
  - Solves all existing problems with the sewer
  - Ensures continued and future system integrity
- Cons
  - Disruptive to the natural environment through the valley (would be mitigated)
  - Cost implications
  - Impacts landowners and general public

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Alternative 3

Pipe Rehabilitation in Place

- Description:
  - The pipe interior is lined with a “cured in place pipe (CIPP)” liner or “sliplined” with a a smaller pipe pulled through the existing pipe.
- Pros:
  - Few lateral connections to existing sewer make this a viable alternative
  - Minimal disruption to surface features
- Cons
  - Not viable for exposed sections of sewer
  - Would not relocate the sewer out of the stream
  - Would still have to excavate at the locations of the separated joints and connect.

Alternative 4

Combination (Alternatives 2 and 3)

- Description:
  - Rehabilitate existing pipe with CIPP or sliplining where appropriate and remove and replace where appropriate.
- Pros:
  - Few lateral connections to existing sewer make this a viable alternative
  - Reduces disruption to a minimum compared to other construction methods
  - Solves the problem sections
  - Ensures continued operation of the required sanitary sewer system
- Cons
  - Disruptive to valley lands where existing sewer is removed and replaced
  - New easements would be required in private valley lands.

The Decision-Making Process

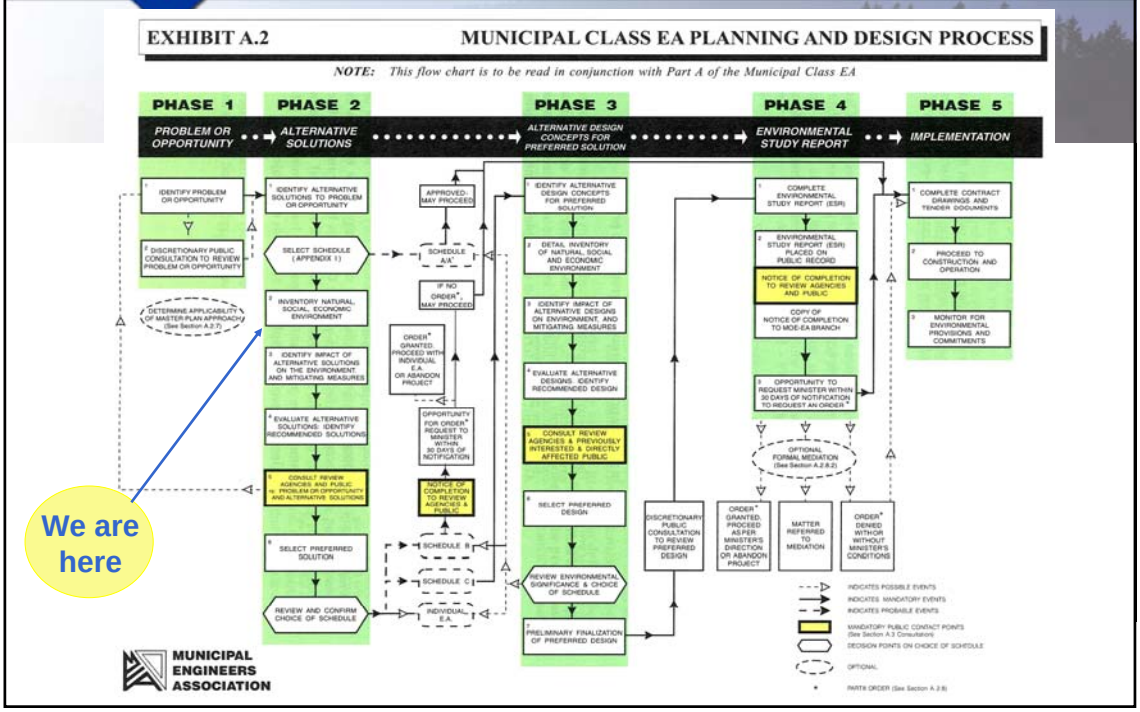
Municipal Class EA Process

The Region of Peel is conducting this study in accordance with the Municipal Engineers Association (MEA) *Municipal Class Environmental Assessment* document, amended in 2007.

The Class EA Process includes:

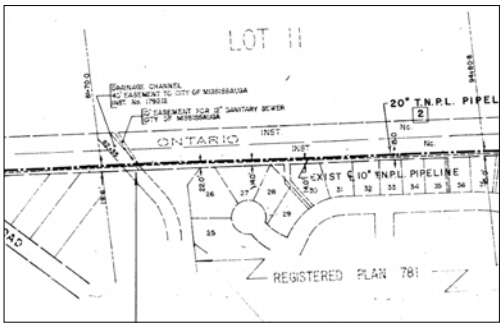
- public and review agency consultation, providing an opportunity to voice concerns
- evaluation of alternatives,
- assessment of the impacts of the proposed improvements, and
- identification of measures to mitigate any adverse impacts.

This project is currently being carried out under 'Schedule C' of the Class EA Document (amended 2007).



Technical Evaluation Criteria

- Constructability
- Subsurface conditions
- Hydraulic analysis
- Access for operation and maintenance
- Impact on existing infrastructure
- Relocation or removal of existing utilities
- Construction methods



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Natural Evaluation Criteria

- Impact on aquatic environment
- Impact on terrestrial environment
- Short term impacts
- Long term impacts
- Mitigation
- Landscaping
- Tree protection or replacement
- Subsurface conditions
- Hydrogeological impacts

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Social Evaluation Criteria

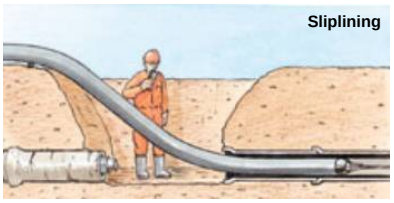
- Construction impacts
- Cultural Heritage surveys
- Archaeological surveys
- Traffic implications
- Inconvenience to residents
- Public safety
- Disruptions to public transit
- Noise
- Visual impacts
- Dust

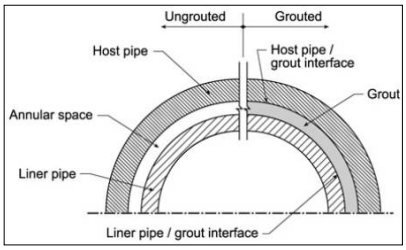
Economic Evaluation Criteria

- Total capital cost
- Long term maintenance cost
- Technology availability
- Property required

Typical Construction Methods - Open Cut

Typical Construction Methods - Rehabilitation





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Next Steps

- Review comments received from this Open House
- Review comments received from various agencies and stakeholders
- Evaluate the alternatives through the use of an evaluation matrix
- Recommend the preferred solution
- Second Open House to present the recommended solution

A public notice will be published, mailed to those on the mailing list, and posted on the Region of Peel's website: http://www.peelregion.ca/ow/water/environ-assess/index-miss.htm

Preliminary Project Schedule	
Study Completion	Fall 2008
Detailed Design	2009
Construction	2009-2010

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Comments?

Your comments are important to us!

Please complete a comment sheet and place it in the box provided or mail it back to us within two weeks. Your comments will be considered in the assessment of the alternatives and in the determination of the preferred solution.

Have questions? Please contact:

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Stay informed…

You can stay informed about this project by accessing the Region's website:

http://www.peelregion.ca/ow/water/environ-assess/index-miss.htm

Information will be collected in accordance with the Municipal Freedom of Information and Protection of Privacy Act. With the exception of personal information, all comments will become part of the public record.

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