Reconstruction of Amberlea Creek Valley Corridor to Protect Frenchman’s Bay Provincially Significant Wetland
QUICK HISTORY
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1980s & 90s

Stormwater Master Drainage Plan
Mayor of Pickering – Task Force to Protect Waterfront from Continued Degradation
PROBLEM IDENTIFICATION

[Map showing locations such as Dunbarton Creek, Amberlea Creek, Bay Ridges, Pine Creek, Krosno Creek, West shore, and Frenchman's Bay in the context of the 1990s.]
QUICK HISTORY
2006 – City Commissioned Stormwater Master Plan
2010 – City Council Endorses Recommendations Further Council Approval for Each Project,
Aug. 2012 – Expression of Interest for EA & Design


Nov. 2012 – Award / Study Kickoff
TECHNICAL ASSESSMENTS OF STUDY AREA – GEOMORPHIC ASSESSMENT

Reach 3

Reach 2

Reach 1

Bayly Street

VISTULA DRIVE

2013
TECHNICAL ASSESSMENTS OF STUDY AREA – GEOMORPHIC ASSESSMENT

Reach 3

Reach 2

Reach 1
TECHNICAL ASSESSMENTS OF STUDY AREA – GEOTECHNICAL / SLOPE
TECHNICAL ASSESSMENTS OF STUDY AREA – GEOTECHNICAL / SLOPE

Cross Section 1
Preferred Alternative by Reach

Reach 3
Reach Based Works

• Involves complete restoration throughout the length of the study area, recreating the channel bed and banks using a combination of natural channel design techniques as well as engineered methods.

• During construction, this option will involve the highest level of disruption to landowners, local residents, and habitat (including existing vegetation). All disrupted areas will be restored with native plantings and seed mixes designed to provide stability and sustainability.
Involves stream restoration or mitigation works at strategic locations or areas of priority problems. Where erosion is creating risks to private properties, local bank or slope stabilization treatments would be placed, using either hardened (engineered) type treatments, or more natural (vegetation & biotechnical engineered) type treatments.

Benefits of selective works include minimal disruption to the local natural environment, maintaining existing channel function and natural features, and cost savings in comparison to reach based works.
Preferred Alternative by Reach

Reach 3
Reach Based Works

- Involves only restoration of areas disturbed during construction.

Reach 2
Selective Works

- Proposed replacement of multi-use bridge being undertaken under separate study.

Reach 1
Do Nothing

- Possible areas of habitat enhancement downstream bridge.
COMPLETE CLASS EA FOR EROSION AND FLOODING CONTROL

2013 – File EA Document

2014 – Respond to Bump Up Request
DETAILED DESIGN
RESTORATION IMPLEMENTATION
RESTORATION IMPLEMENTATION
RESTORATION IMPLEMENTATION
RESTORATION IMPLEMENTATION
RESTORATION IMPLEMENTATION
CONSTRUCTION