APPENDIX L.10

Agency Consultation

DRAFT

Scarborough Waterfront Project (SWP)
Technical Advisory Committee #1
Monday January 18, 2016
9 am - 12 pm

Black Creek Pioneer Village, Canada West Room
1000 Murray Ross Parkway

AGENDA

1. **Welcome**

2. **Study Area, Vision & Objectives**

3. **EA Process/Purpose of Today**

4. **Shoreline Segments**
    - Existing Conditions
    - Alternatives

5. **Evaluation Criteria**

6. **Next Steps**

SCARBOROUGH
WATERFRONT PROJECT
Environmental Assessment

Technical Advisory Committee #1

January 18, 2016

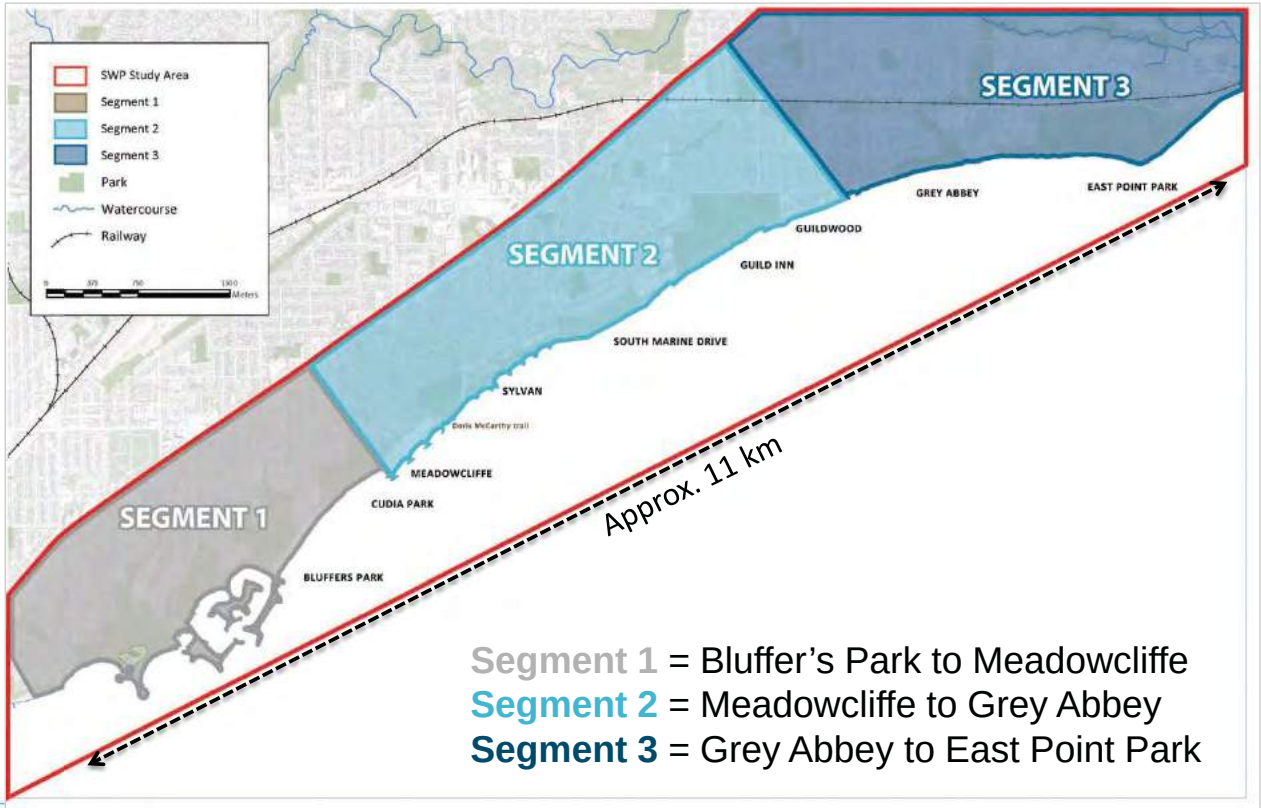
TORONTO

Toronto and Region Conservation for The Living City

Agenda

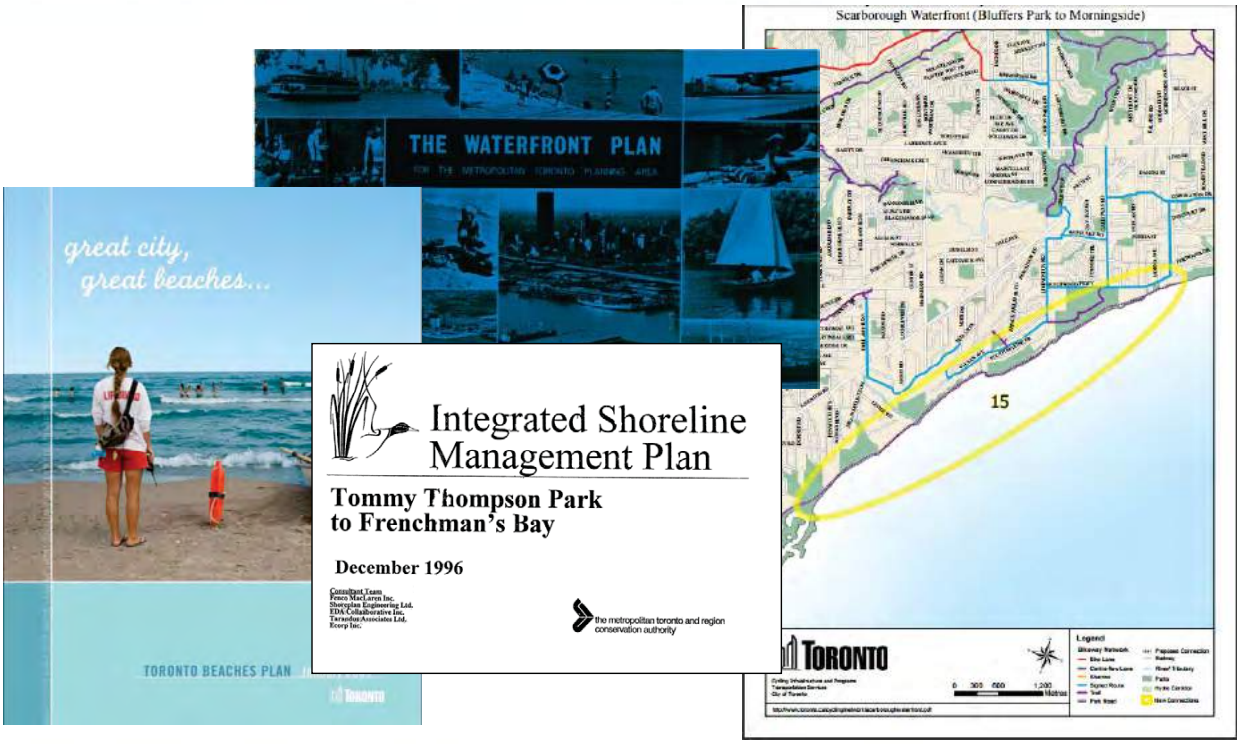
- Welcome
- Presentation
  - Project Overview
  - Study Update
  - Alternatives by Shoreline Segment & Evaluation Criteria
- Questions / Comments?
- Next Steps & Wrap-up

Study Area



Segment 1 = Bluffer's Park to Meadowcliffe
Segment 2 = Meadowcliffe to Grey Abbey
Segment 3 = Grey Abbey to East Point Park

Planning Context



Project Vision & Objectives

VISION

Create a system of greenspaces along the Lake Ontario shoreline which respect and protect the significant natural and cultural features of the Bluffs, enhance the terrestrial and aquatic habitat, and provide a safe and enjoyable waterfront experience.

OBJECTIVES

1. Protect and enhance terrestrial and aquatic features and linkage
2. Manage public safety and property risk
3. Provide an enjoyable waterfront experience
4. Consistency and coordination with other initiatives
5. Achieve value for cost

Process and Timeline

WE ARE HERE

	July 2014-June 2015	January 2016-2017	2017-2027
PROJECT PHASE:	**PHASE 1** Terms of Reference	**PHASE 2** Environmental Assessment	**PHASE 3** Detailed Design & Construction
	• High level document • Sets the stage for the EA • Approved by the Minister of Environment and Climate Change on December 15, 2015.	• Fulfill the direction of Terms of Reference and other plans to meet the Vision and Objectives • How to implement the Vision and Objectives	• Final Design • Construction
PUBLIC CONSULTATION	2 Public Meetings 4 Stakeholder Committee Meeting	4 Public Meetings 5 Stakeholder Committee Meetings Public Review of Draft and Final EA	Ongoing Public Outreach

Phase 2: Environmental Assessment

Step 1: Assess existing conditions

Step 2: Confirm problems and opportunities

Step 3: Develop Alternatives by segment and draft Evaluation Criteria

WE ARE HERE

Step 4: Select Preferred Alternative for each segment

Step 5: Select Integrated Preferred Alterative

Step 6: Conduct a detailed effects assessment and develop mitigation, monitoring and adaptive management strategies.

Step 1: Assess Existing Conditions

- Environmentally Sensitive Areas & Areas of Natural and Scientific Interest
- Hazard Areas
- Aquatic & terrestrial habitat conditions
- Trails
- Access
- Parks & greenspace
- Public amenities & other infrastructure
- *Etc.*

Step 2: Confirm Problems & Opportunities

Erosion and risk to property and public safety	Limited access to and along the water's edge	Limited habitat integrity
Opportunity to reduce risk from erosion along existing construction access road.	Formal access along existing construction access road along base of bluffs. Regional trail heads at Bluffer's Park and East Point Park.	Improve fish habitat diversity Improve habitat connectivity and quality

Step 3: Develop Alternatives

WE ARE HERE

Alternatives developed considering:

- Existing Conditions
- Problems & Opportunities
- Input from the public, Technical Team, and Stakeholder Committee

Alternatives identified which:

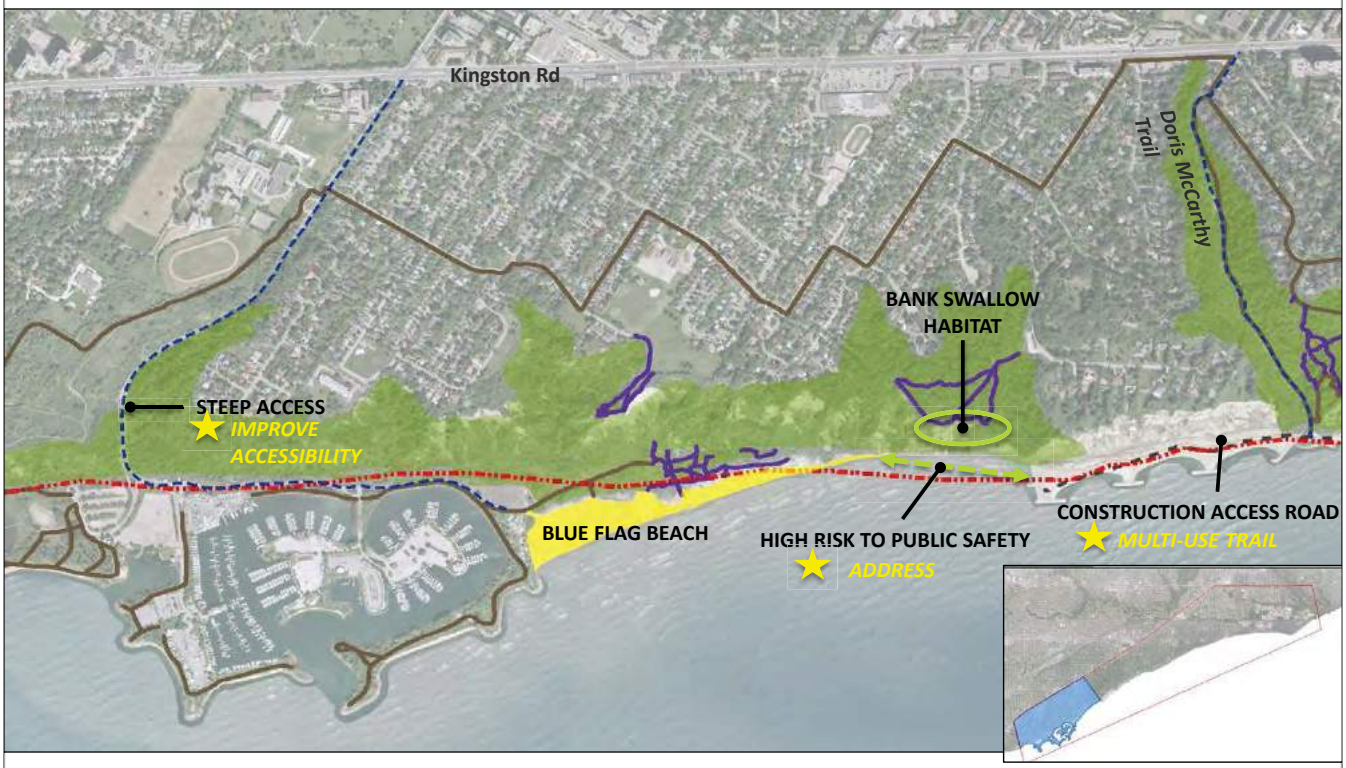
- Meet the Project Vision and Objectives:
  - Remediate erosion and decrease risk to property and public safety
  - Provide improved, safe public access to and along water's edge
  - Improve habitat integrity via enhancements to terrestrial and aquatic habitat

ToR Feedback

What we heard

- Celebrate natural heritage and preserve natural areas
- Put nature first
- Consider a combination of trails at the top of the Bluffs and along the shoreline
- Access to the shoreline needs to be less steep
- Brimley Road is not safe for cyclists or pedestrians
- Keep some areas natural/wild
- Consider an end to end, multi-use trail, along the shoreline

Segment 1

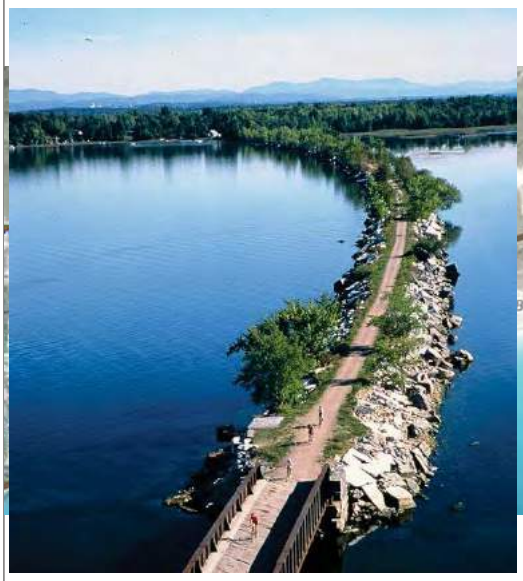


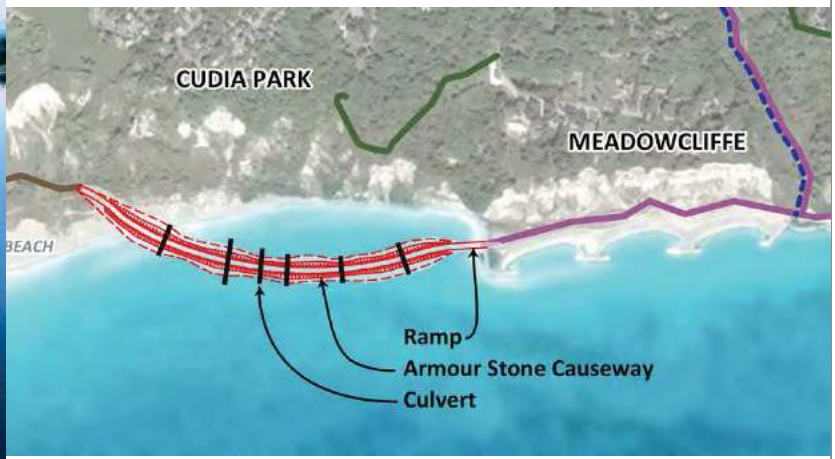
Segment 1

Alternatives 1a & 1b (Bridge)

Segment 1

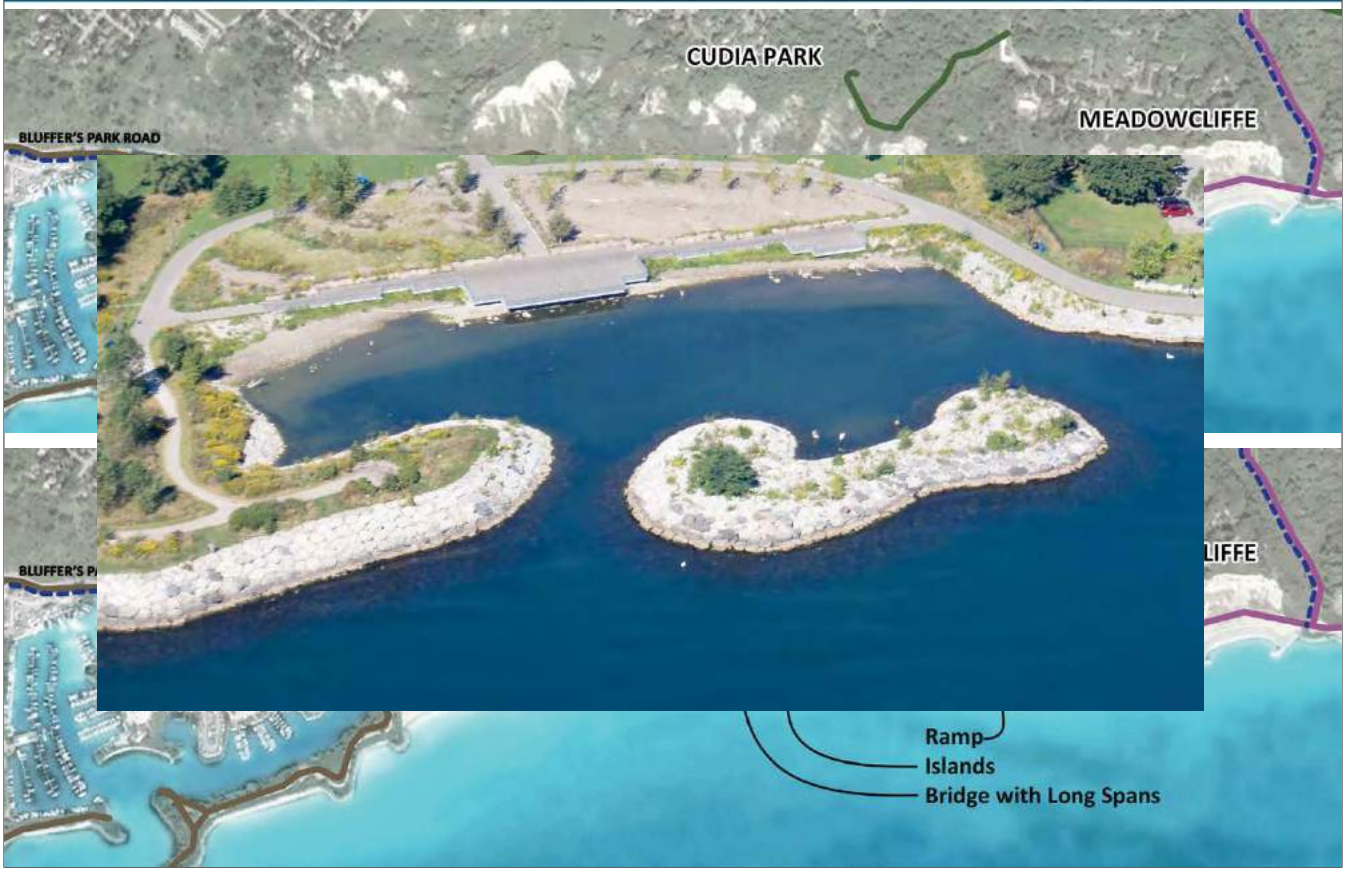
Alternative 2 (Causeway)





Segment 1

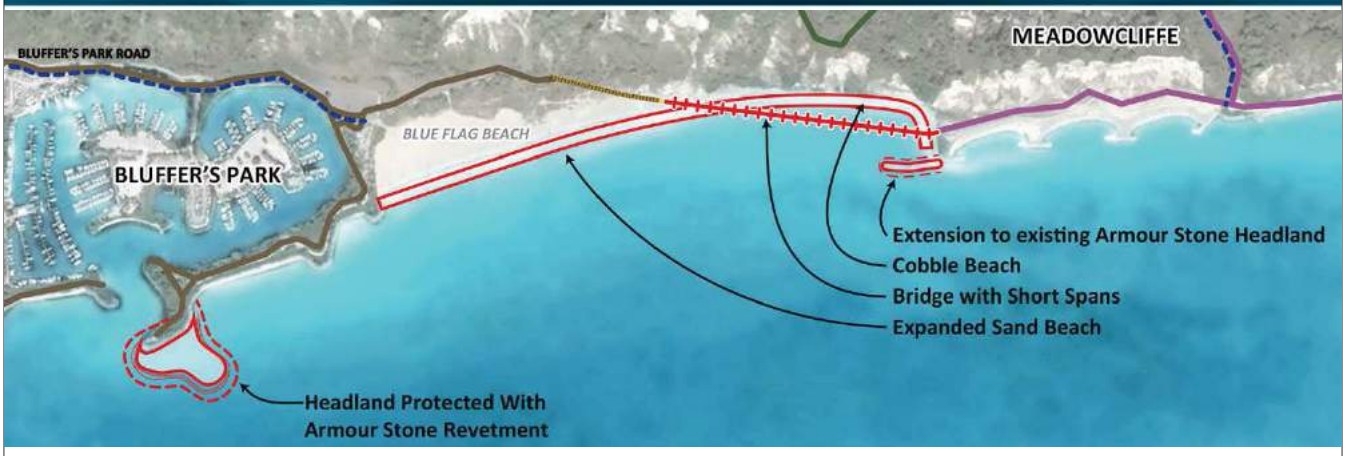
Alternatives 3a & 3b *(Connected Islands)*

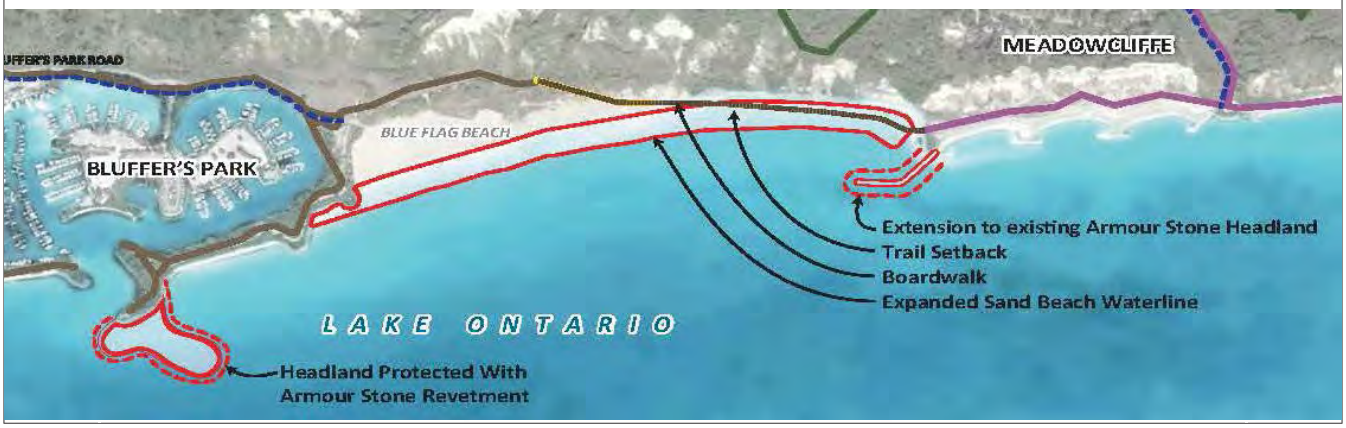


Segment 1

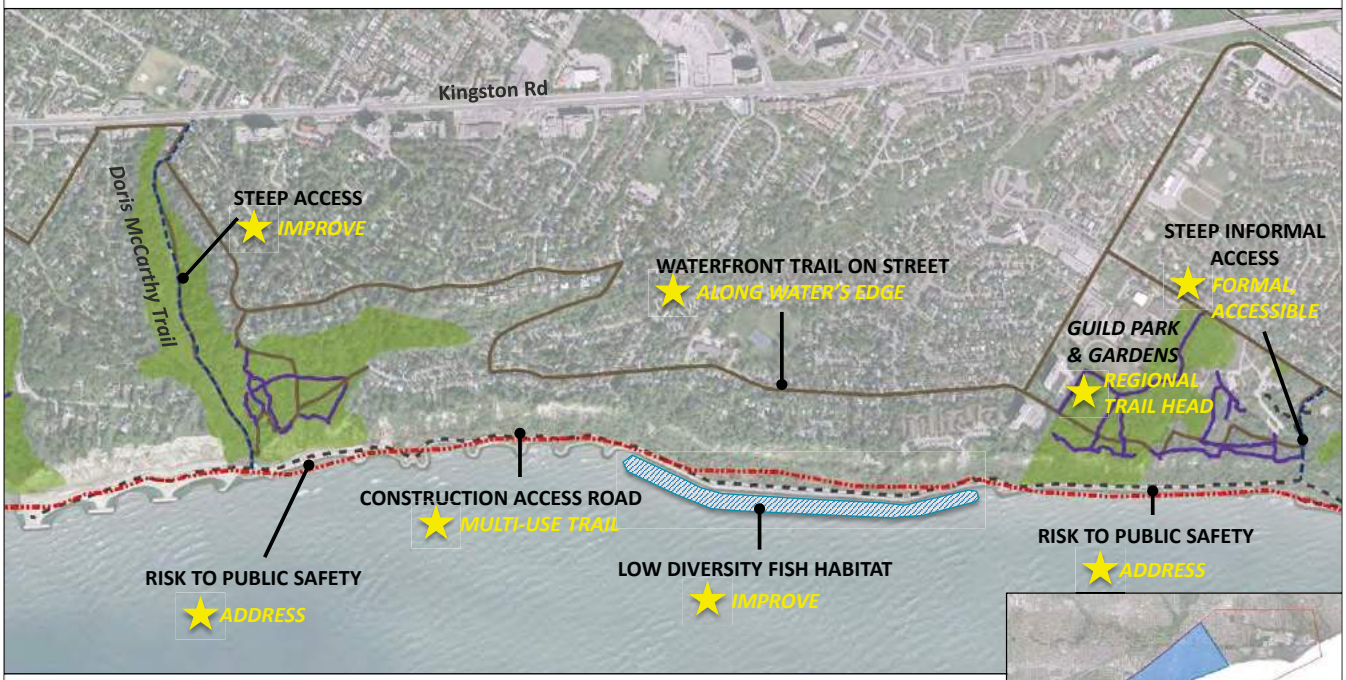
Alternative 4 *(Headlands)*

Segment 1 — Alternatives 5a & 5b *(Expanded Beach)*





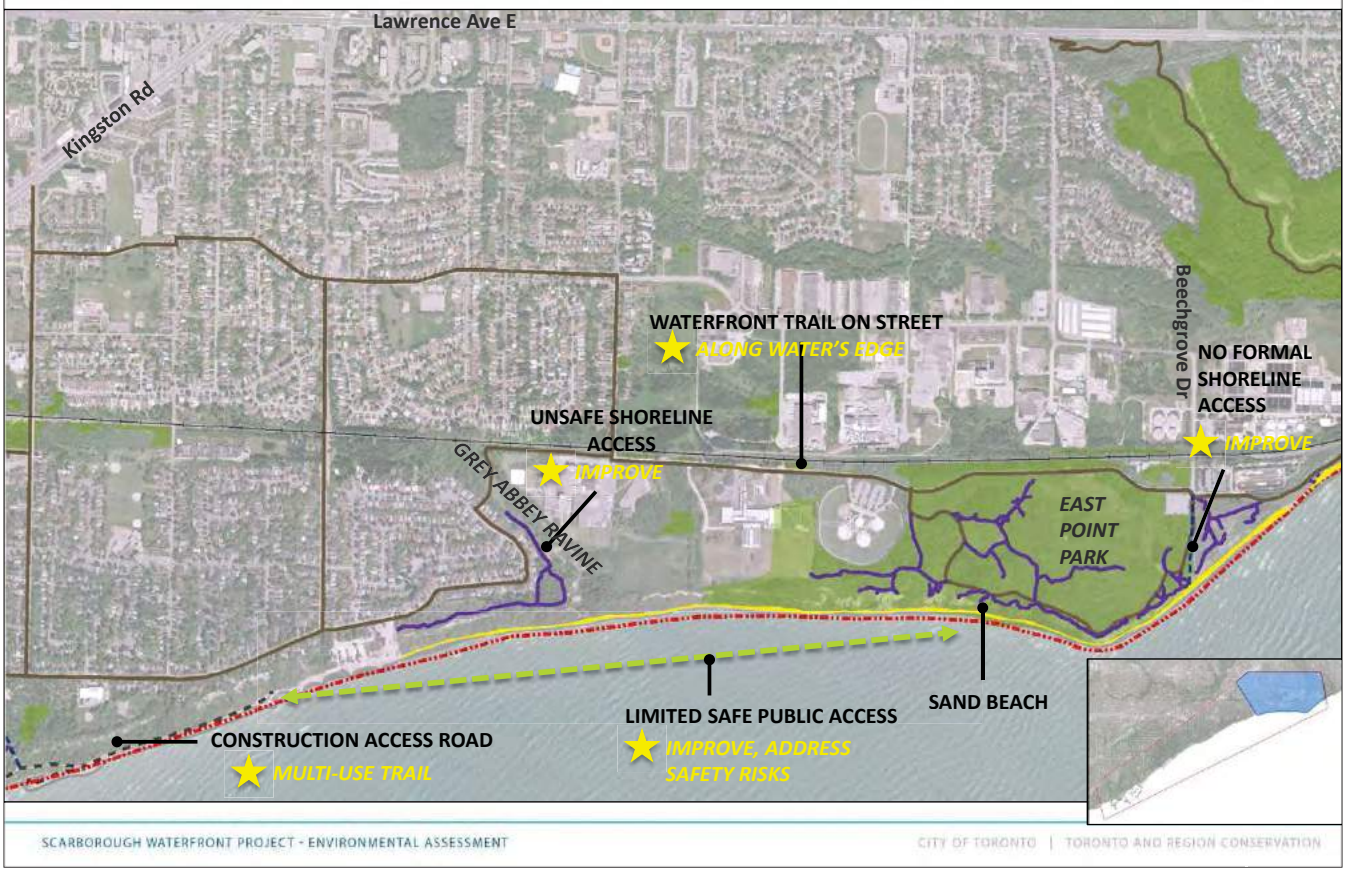
Segment 2



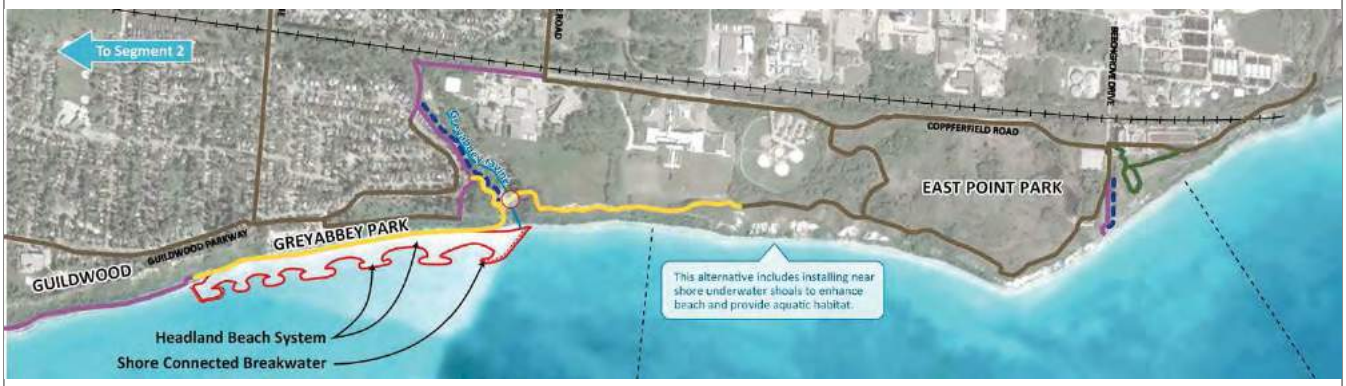
Segment 2 — Alternative 1 *(Headland)*

Segment 2 — Alternative 2 *(Revetment)*

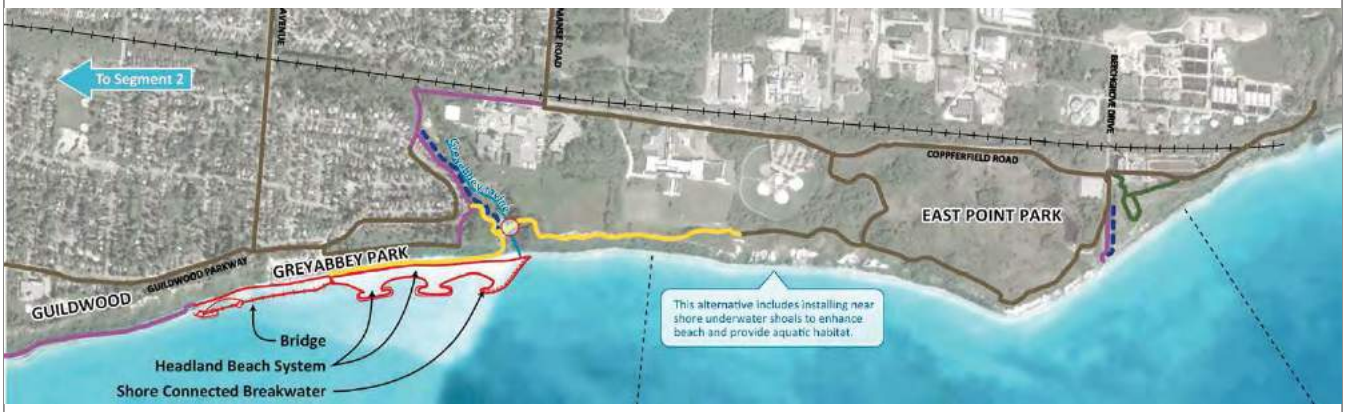
Segment 3

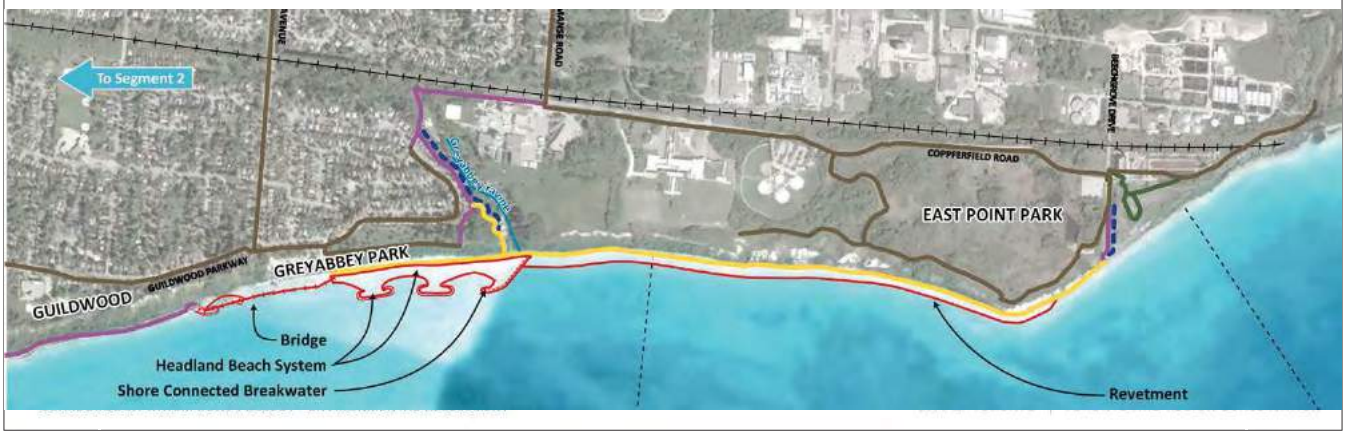


Segment 3 Alternatives 1a & 1b *(Headland-Beach)*



Segment 3 — Alternatives 2a & 2b *(Bridge-Beach)*





Segment 3 — Alternatives 3a & 3b *(Connected Islands)*

Segment 3

Sheltered Harbour

Tableland Connections

Tableland Connections

Evaluation Criteria

EA Process STEP 3

Alternatives will be evaluated:

- Based on their ability to meet Project Vision and Objectives
- Against the ***Do Nothing*** and ***Each Other***
  - Do Nothing does not mean “Do Nothing”

Evaluation criteria measure the differences between Alternatives

- Criteria measure Project Objectives
- Scoring, based on indicators: *least*, *moderately*, or *most preferred*
- All objectives and criteria are equally important – no weighting

Assumptions:

- Same construction plan and mitigation for all Alternatives
- Alternatives represent ultimate build-out condition

Next Steps

Winter 2016	Spring 2016	Summer 2016	Fall 2016
• Finalize Evaluation Criteria & Alternatives based on public feedback	• Present Preferred Alternative by Segment • Present Preferred Integrated Alternative	• Refine Preferred Integrated Alternative & undertake detailed effects assessment • Includes public amenities, trail dimensions, etc.	• Present EA Results • Submit Draft EA Document to MOECC
	• 2 Stakeholder Committee meetings • 2 Public Meetings		• 2 Stakeholder Committee meeting • Public Meeting

Thank you!

We’d like your feedback

- *Are there any Alternatives or Evaluation Criteria missing?*
- *How could the Alternatives be improved?*

Scarborough Waterfront Project - Project Update in lieu of TAC meeting - please provide feedback by June 30

Maria Zintchenko to: mhuk, mtrevel, Jason Ryan, chunmei.liu, Webster, Kevin (MOECC), helen.zhang, dan.minkin — 06/10/2016 03:18 PM

Cc: Lionel Worrell, Alexis Moxley, emsplanning, jdelvas, cbooth, tbrunin

History: This message has been replied to and forwarded.

Hello all,

In lieu of the TAC meeting, please find the Project Update for your review and comment. **Please provide your feedback by Thursday June 30.**
The Update is available here:
https://www.dropbox.com/sh/kx0jbhvmmhg1u0b/AAAvpHOWi3hioJYAqVJUNWAKa?dl=0
This Project Update focuses on the preliminary evaluation results and next steps.
There is a lot of information to review, and the project team would be happy to discuss in a in-person meeting, webinar or conference call.

Please note that the preliminary evaluation results will be presented to the public at the next project Public Information Centre that is taking place on Tuesday June 28.
For more information, see
https://trca.ca/conservation/green-infrastructure/scarborough-waterfront-project/

If you have any questions, issues with the link to the Update, or would like to meet to discuss, please let me know.

Thank you
Maria

Maria Zintchenko | Project Coordinator, Project Management Office
Toronto and Region Conservation Authority | Mailing Address: 5 Shoreham Drive, Downsview, ON, M3N 1S4 | Office Location and Courier Address: 101 Exchange Avenue, Vaughan, ON, L4K 5R6
Cell: (416) 671-0993 | Office: (416) 661-6600 x 5847 | Email: mzintchenko@trca.on.ca

SCARBOROUGH WATERFRONT PROJECT

PROJECT UPDATE

2016 JUNE 10

CONTENTS

- **General Update:** Background, progress to date, and next steps
- **Appendices:**
  - Appendix A:
    - Alternatives
  - Appendix B:
    - Evaluation approach; and Evaluation criteria, indicators and ranking measures
  - Appendix C:
    - Part 1 - Evaluation Summary by Objective
    - Part 2 - Descriptions on Preliminary Preferred Alternatives by Segment
    - Part 3 - Evaluation Summary by Criterion
    - Part 4 - Sheltered Harbour option results
    - Part 5 - Preliminary Preferred Overall Alternative

SCARBOROUGH
WATERFRONT PROJECT
Environmental Assessment

Project Update for Aquatic Habitat Toronto

July 14, 2016

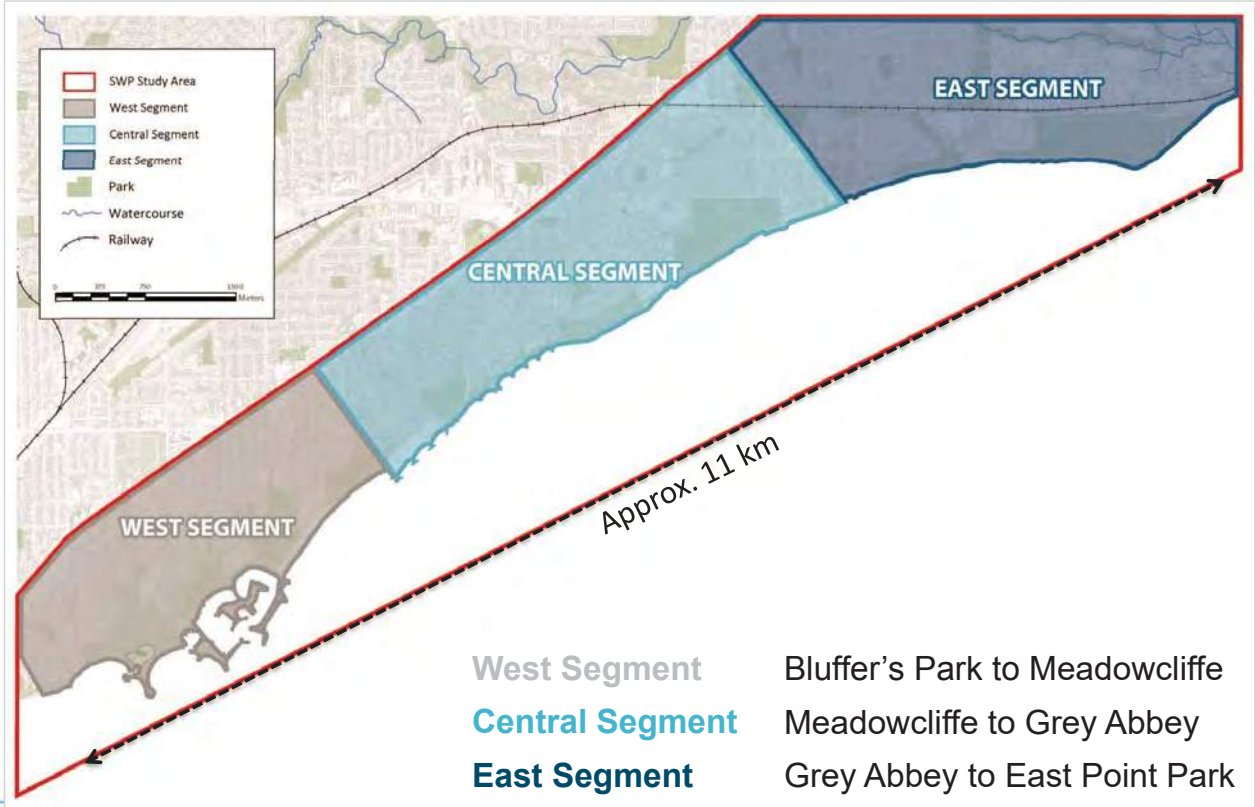
TORONTO

Toronto and Region Conservation for The Living City

Agenda

1. Background
2. Preliminary Evaluation Results
3. Aquatic Habitat Features
4. Next Steps

Study Area



West Segment	Bluffer's Park to Meadowcliffe
Central Segment	Meadowcliffe to Grey Abbey
East Segment	Grey Abbey to East Point Park

Project Vision & Objectives

VISION

Create a system of greenspaces along the Lake Ontario shoreline which respect and protect the significant natural and cultural features of the Bluffs, enhance the terrestrial and aquatic habitat, and provide a safe and enjoyable waterfront experience.

OBJECTIVES

1. Protect and enhance terrestrial and aquatic features and linkages (**natural environment**)
2. Manage public safety and property **risk**
3. Provide an enjoyable waterfront **experience**
4. Consistency and **coordination** with other initiatives
5. Achieve value for **cost**

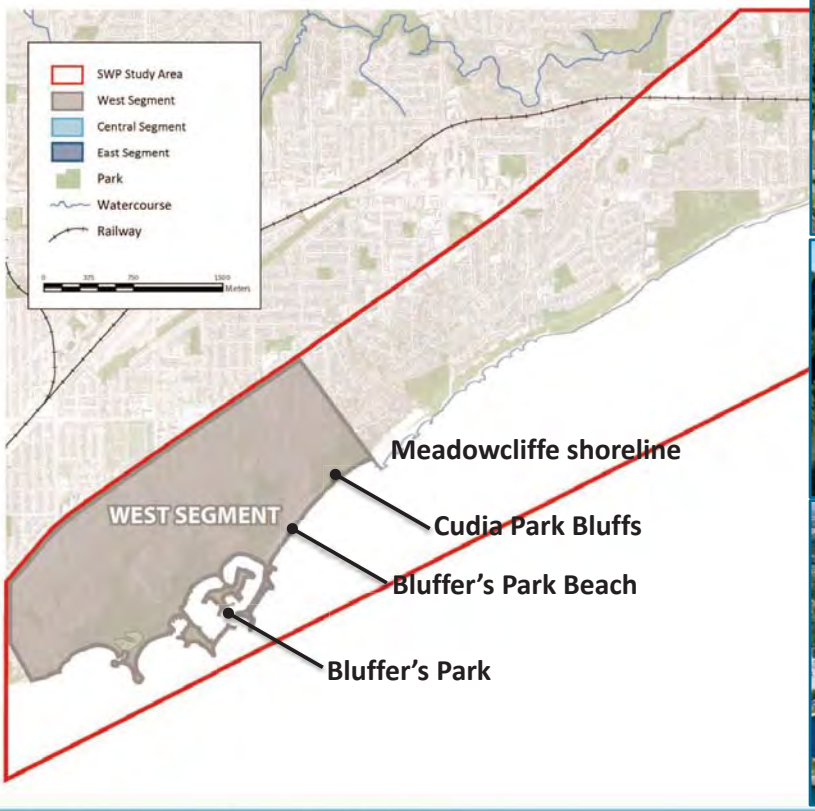
Environmental Assessment Process

- **Step 1:** Assess existing conditions
- **Step 2:** Confirm problems and opportunities
- **Step 3:** Develop Segment Alternatives and draft Evaluation Criteria
- **Step 4:** Select Preferred Segment Alternatives — WE ARE HERE
- **Step 5:** Identify & Refine Overall Preferred Alternative
- **Step 6:** Conduct Detailed Effects Assessment
  Develop mitigation, monitoring and adaptive management strategies
  Develop construction plan & phasing strategy
  Develop cost estimate & funding strategy

Feedback

- Close to 1,000 comments received!
- In general we heard that:
  - The range of Alternatives seemed reasonable
  - Support for the creation of a continuous link along the shoreline
  - Desire to preserve the character of the bluffs and existing sand beaches
  - Consider existing user pressures at Bluffer's Park
  - Protect Species at Risk
  - Consider "softer" shoreline treatment options
- Most comments were already considered in the evaluation criteria.

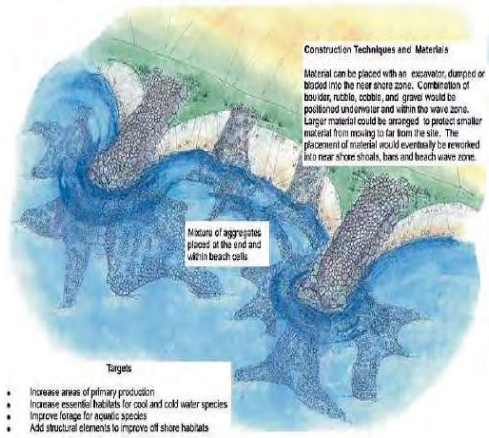
West Segment



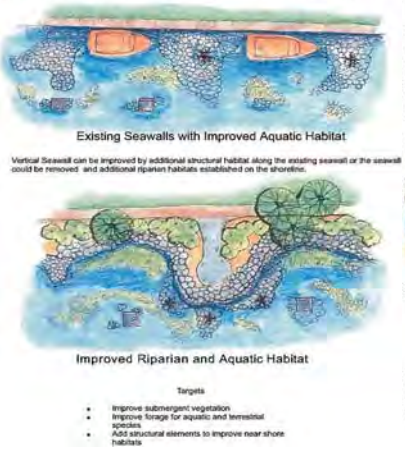
Existing Conditions

Preliminary Preferred: Expanded Beach, Wide

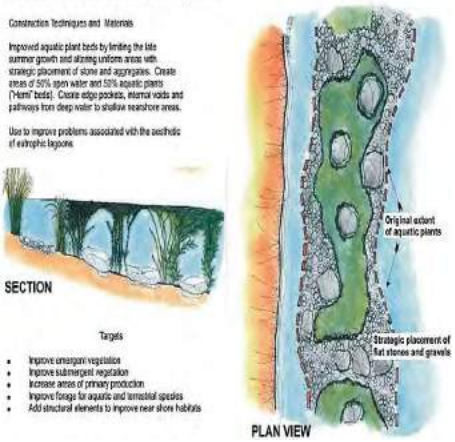
RESTORATION TECHNIQUE: Surcharged Open Coast Groyne
HABITAT TYPE : Open Coast



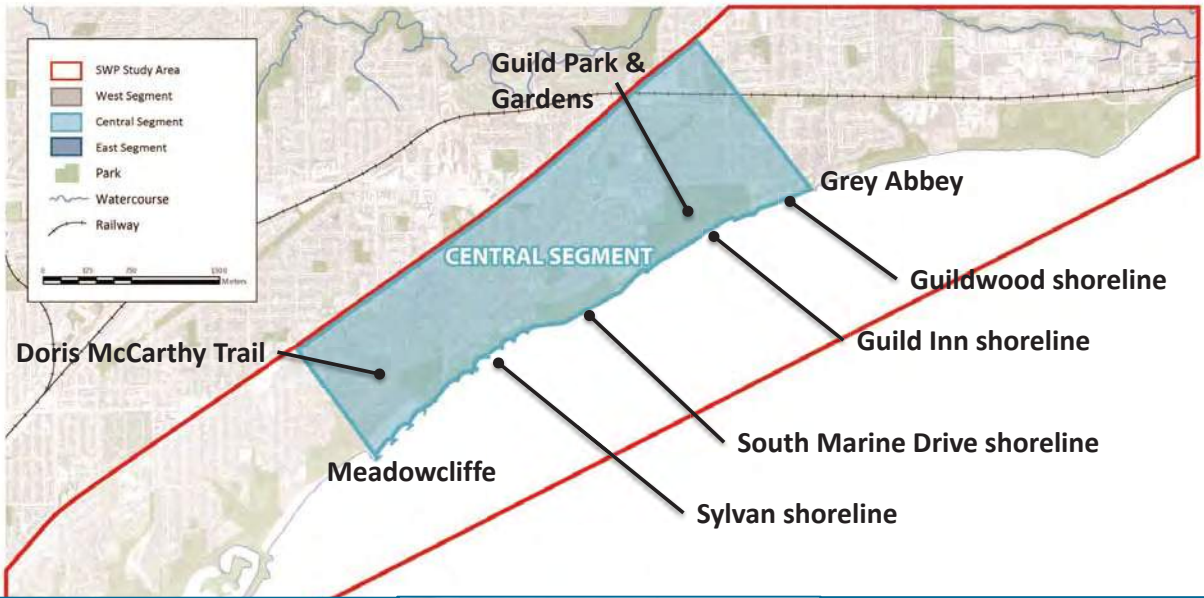
RESTORATION TECHNIQUE: Inner Harbour Treatment
HABITAT TYPE : Sheltered Embayments : Vertical Seawalls



RESTORATION TECHNIQUE: Modified Growth of Submerged Aquatic Vegetation
HABITAT TYPE : Sheltered Embayments

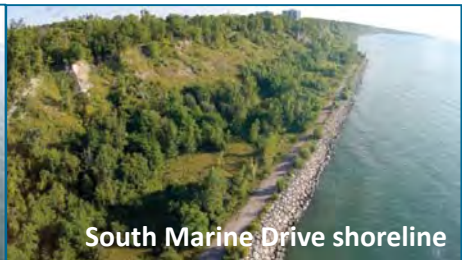


Central Segment



Construction Access Road

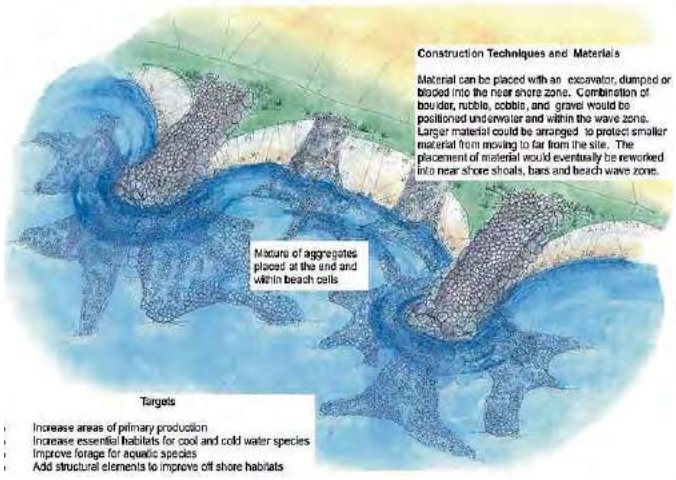
Sylvan shoreline


South Marine Drive shoreline

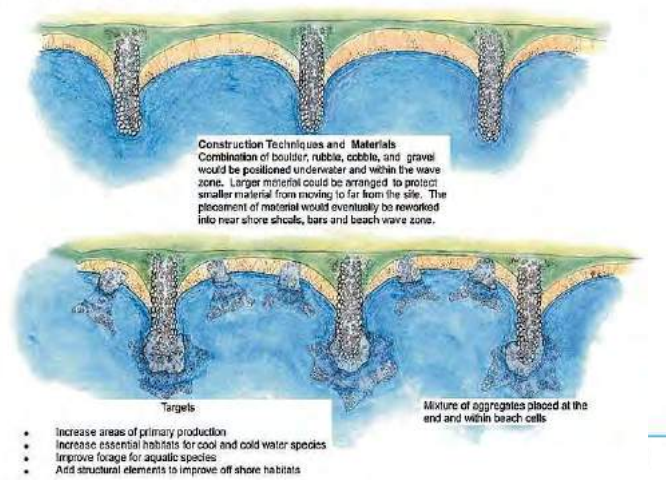
Existing Conditions

Preliminary Preferred: Headland - Beach

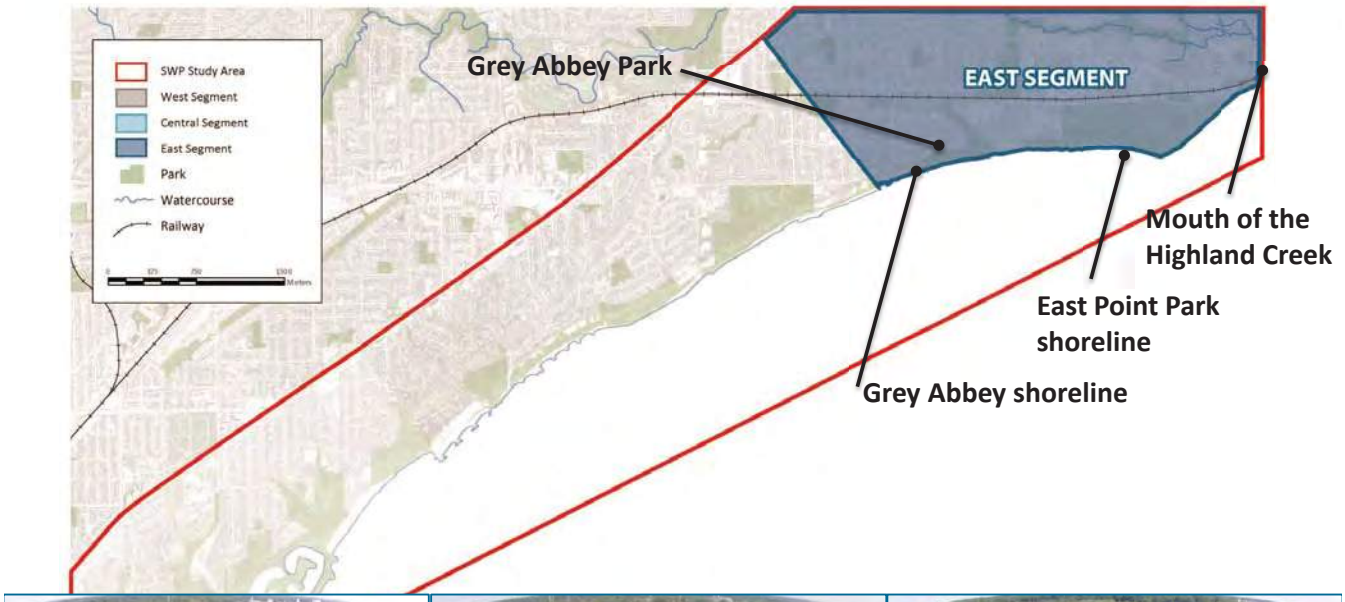
RESTORATION TECHNIQUE: Surcharged Open Coast Groyne
HABITAT TYPE : Open Coast



RESTORATION TECHNIQUE: Surcharged Open Coast Groyne
HABITAT TYPE : Open Coast



East Segment



East Point Park - West

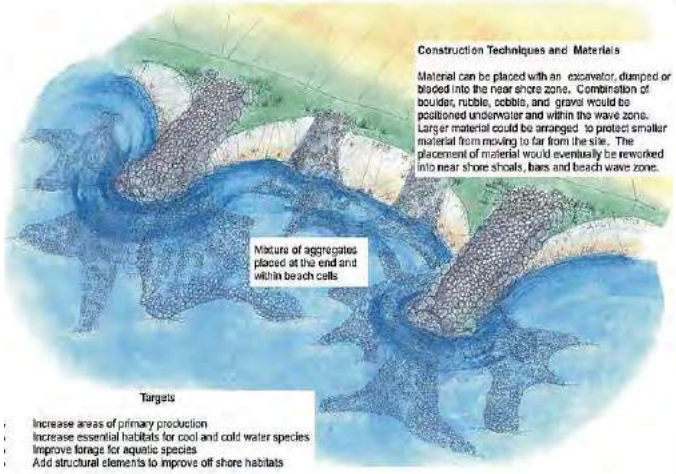
East Point Park - East

Mouth of the Highland Creek

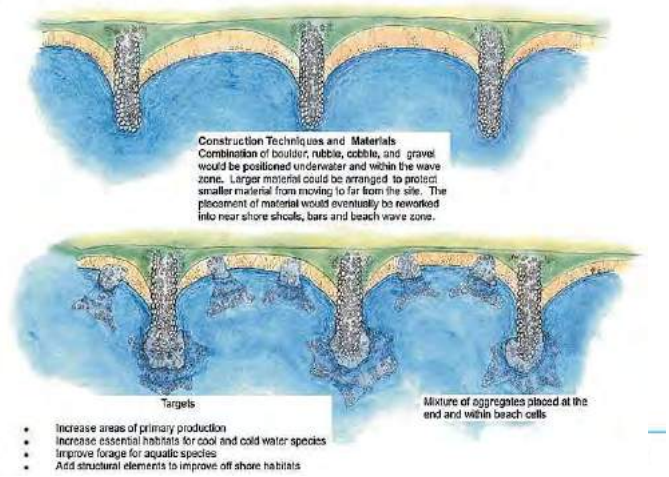
Existing Conditions – East

Preliminary Preferred: Headland – Beach to EPP

RESTORATION TECHNIQUE: Surcharged Open Coast Groyne
HABITAT TYPE : Open Coast

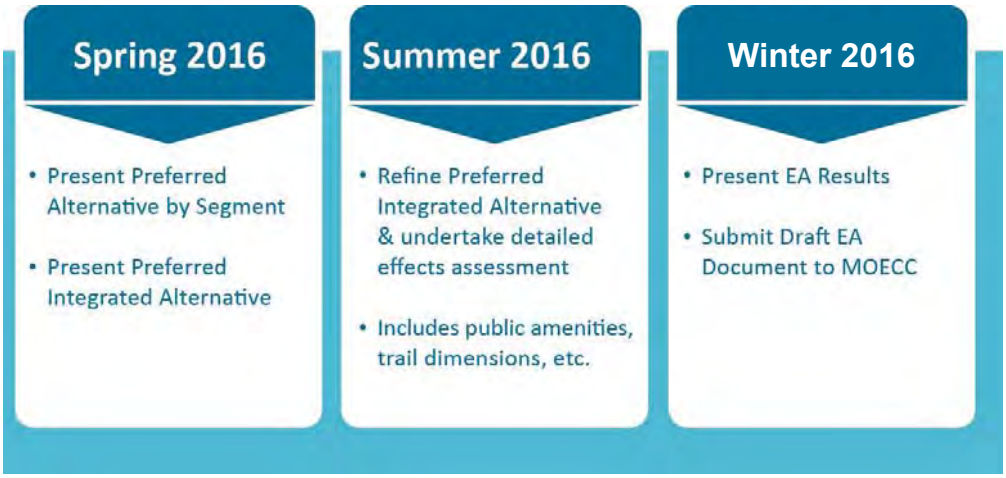


RESTORATION TECHNIQUE: Surcharged Open Coast Groyne
HABITAT TYPE : Open Coast



Overall Preferred Alternative

Timelines


Spring 2016
• Present Preferred Alternative by Segment
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Summer 2016
• Refine Preferred Integrated Alternative & undertake detailed effects assessment
• Includes public amenities, trail dimensions, etc.
Winter 2016
• Present EA Results
• Submit Draft EA Document to MOECC

SCARBOROUGH WATERFRONT PROJECT

Environmental Assessment

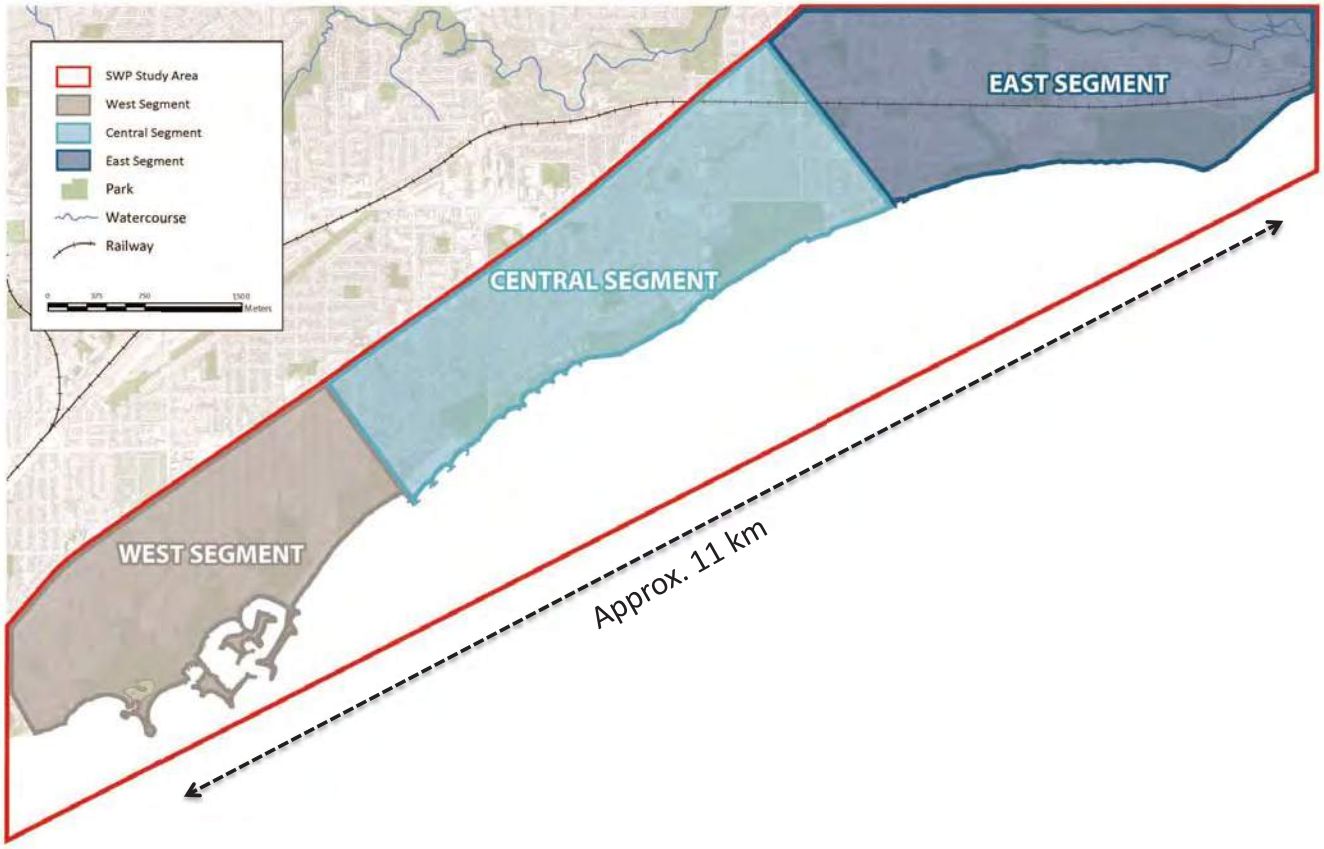
Project Update for Aquatic Habitat Toronto

June 1, 2017

Outline

1. **Project Update**
   a. Reminder: Study Area, Vision & Objectives
   b. Refined Preferred Alternative
2. **Aquatic Habitat Enhancement**
3. **Construction Mitigation**
4. **Compensation That May Be Considered**
5. **Next Steps**

Project Study Area

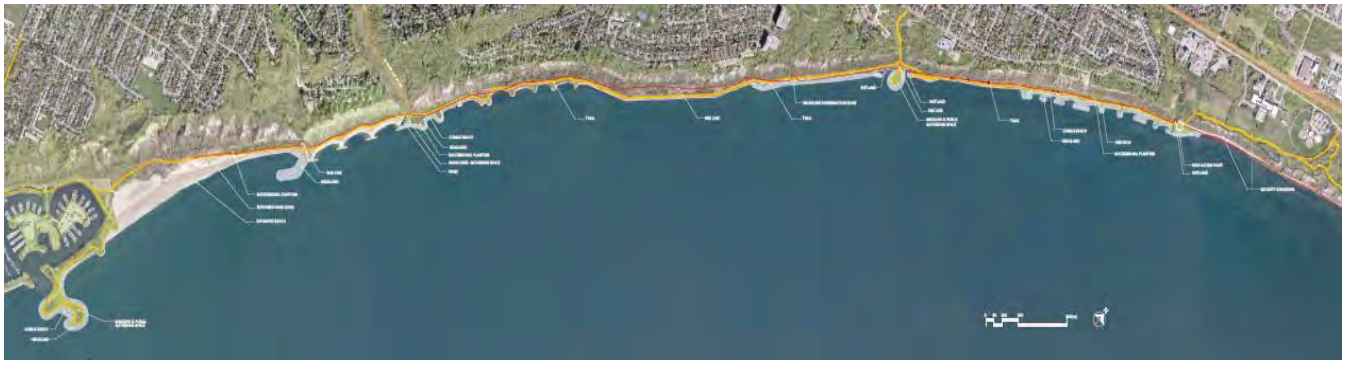


Project Vision

Project Objectives

1. Protect and enhance **natural environment** (terrestrial and aquatic features and linkages)
2. Manage public safety and property **risk**
3. Provide enjoyable waterfront **experiences**
4. Consistency and **coordination** with other initiatives
5. Achieve value for **cost**

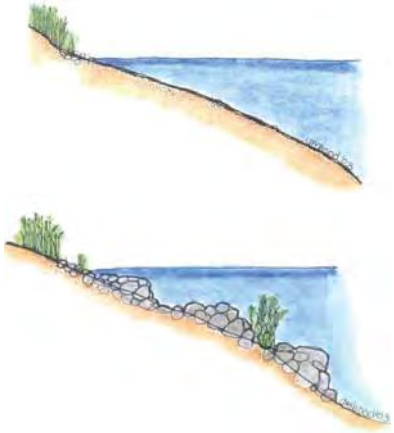
Refined Preferred Alternative



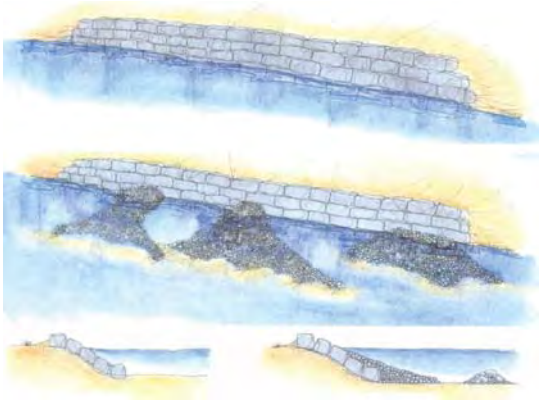
Estimated Footprint of ~185,000 m^2

Nearshore Open Coast Aquatic Habitat Enhancement

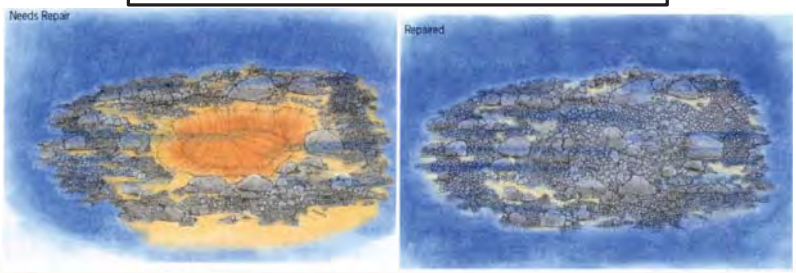
Shoreline Shoals



Surcharging



Boulder Pavement Restoration



Potential Enhancement Areas: West Segment

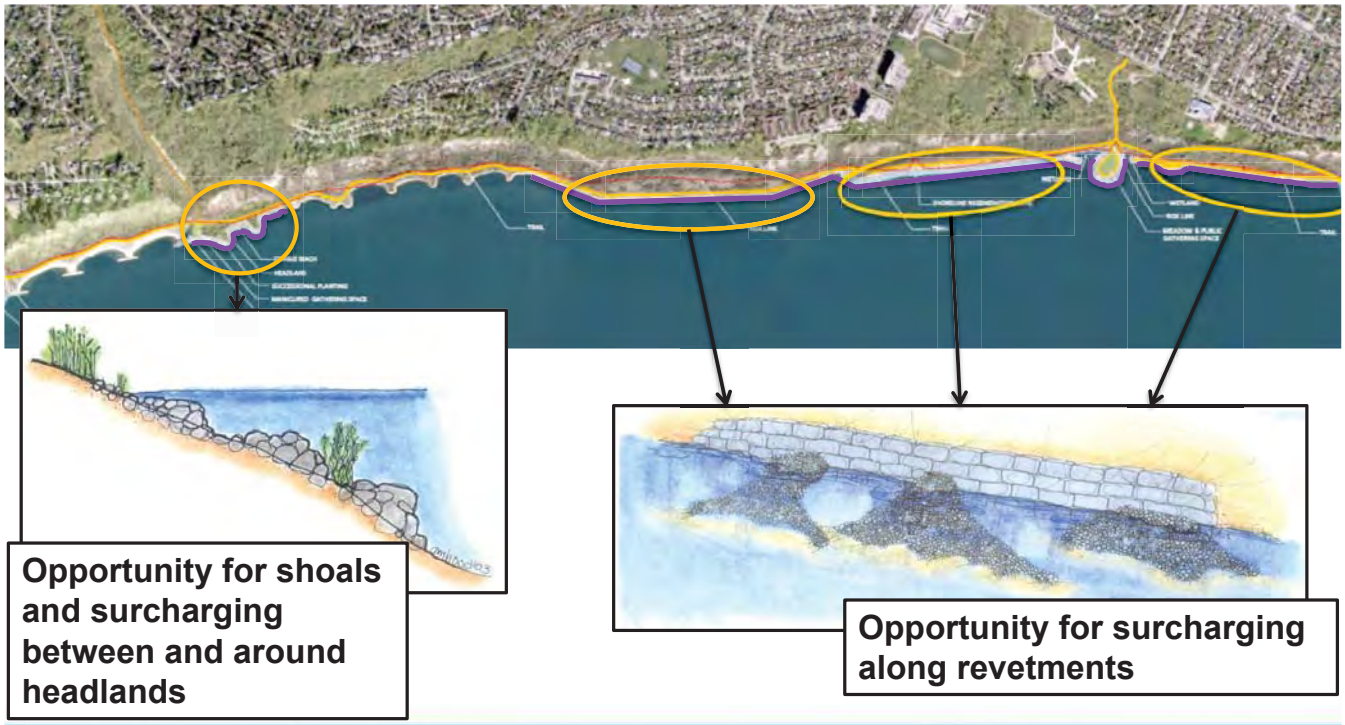
Note: Specific locations, configuration and dimensions of the habitat enhancement features will be determined during the detailed design project phase. These images are for conceptual purposes only.

Opportunity for shoals and/or surcharging off expanded Meadowcliffe headland

Opportunity for shoals off expanded Bluffer's Park headland

Potential Enhancement Areas: Central Segment

Note: Specific locations, configuration and dimensions of the habitat enhancement features will be determined during the detailed design project phase. These images are for conceptual purposes only.



Opportunity for shoals and surcharging between and around headlands

Opportunity for surcharging along revetments

Potential Enhancement Areas: East Segment

Note: Specific locations, configuration and dimensions of the habitat enhancement features will be determined during the detailed design project phase. These images are for conceptual purposes only.

Opportunity for potential boulder pavement restoration off headlands

Opportunity for shoals between headlands

Opportunity for surcharging around headlands

Construction Mitigation

- **Adaptive Management & Active Monitoring**
  - Potential for year-round construction will be mitigated by adaptively managing construction timing windows (i.e., active monitoring throughout the construction period) and implementation of construction best management practices.

- **Construction Phasing**
  - Construction activities will be phased to minimize overall impacts by restricting in-water work to one or two contained areas at a time.

Compensation That May Be Considered

- **Compensation** will be developed during the Detailed Design phase of the Project as a component of the Fisheries Authorization, in consultation with appropriate agencies.
- **Compensation Options to be Considered** include:
  - Nearshore open coast habitat (incorporated into new designs or retrofits)
  - Sheltered embayment habitat (e.g., Bluffer's Park marina)
  - Habitat banking (e.g., coastal wetlands)

Project Timelines

Deliverable	Timelines
Stakeholder Committee meeting	June 14, 2017
Public Information Centre	June 28, 2017
TRCA Authority	July 28, 2017
Target Draft EA Submission	Mid August 2017
Public Works and Infrastructure Committee	September 2017
City of Toronto Council	October 2017
Target Formal EA Submission	November 2017

Questions?

SCARBOROUGH WATERFRONT PROJECT - ENVIRONMENTAL ASSESSMENT
CITY OF TORONTO | TORONTO AND REGION CONSERVATION

Scarborough Waterfront Project
City of Toronto: Former Brimley Road Landfill Discussion

June 9, 2015
1:00 - 3:00 p.m.
TRCA Head Office, Escarpment Room

AGENDA

1. **Welcome**
   Nancy

2. **Overview: Former Landfill Site**
   City of Toronto

3. **Former Landfill Site & SWP EA Discussion**
   Nancy
   a. Geotechnical Considerations?
      (Don)
   b. Available Data

4. **SWP EA Timelines**
   Nancy
   a. Internal Technical Workshop (Alternatives Development & Evaluation Criteria) – any information to feed into the workshop?

5. **Additional Items**

Scarborough Waterfront Project Environmental Assessment

Preliminary Draft Alternatives City of Toronto Meeting

September 14, 2015

Overview

1. SWP Overview
   - ToR Status
   - Project Vision and Objectives
   - Project Study Area
2. Preliminary Draft Alternative Concepts
3. Next Steps

ToR Status

- Set the roadmap for how the EA will be undertaken.
- Formally submitted to MOECC on June 5, 2015.
- Decision anticipated in early Fall 2015.

Project Vision

Create a system of greenspace along the Lake Ontario shoreline which respect and protect the significant natural and cultural features of the Bluffs, enhance the terrestrial and aquatic habitat, and provide a safe and enjoyable waterfront experience.

Project Objectives

- Protect and enhance terrestrial and aquatic natural features and linkages
- Manage public safety and property risk
- Provide an enjoyable waterfront experience
- Consistency and coordination with other initiatives
- Achieve value for cost

Project Overview – Project Study Area

Project Overview – Project Area

Approach to Developing Alternatives

Step 1: Review the Existing Conditions by Project Area Segments

Step 2a: Assess Risk
For example - Where is the risk of erosion? What would we need to do to address priority risk areas?

Step 2b: Review Challenges and Opportunities
Where is the significant habitat? Where would a trail go? Where should access be provided?

Step 3: Start to Build Alternatives
For example - Where could a trail safely go? Where can we provide access points that connect the top and bottom of the bluffs? What kind of habitat improvements can we do? What else can be done to address the challenges and opportunities? How does it all fit together?

We are here!

Preliminary Draft Alternative Concepts

Based on Public & Agency Input Received to Date

Bluffer's Park to Meadowcliffe

- Bridge
- Causeway
- Bridge/Island
- Beach Extension
- Boardwalk
- Brimley Rd Improvements

Meadowcliffe to Grey Abbey

Sylvan Area
- Shoreline Extension
- Raise Trail Grade

Doris McCarthy Trail
- Reduce slope

Guild Access Rd
- Reduce slope
- Funicular

Grey Abbey to East Point Park

- Formal shoreline to Grey Abbey Ravine or EPP
- Beach extension to Grey Abbey Ravine or EPP
- Linkage up Grey Abbey Ravine & along top of bluffs to EPP

Next Steps

- Stakeholder Committee Preliminary Alternatives Workshop
  - *Purpose: Present and seek input on the Preliminary Draft Alternatives*
  - *September 23rd from 5:30 – 9 pm at the Scarborough Civic Centre*

- *Consultation with SC, TAC, landowners & public*
  - *Purpose: Present & seek input on the Draft Alternatives & Draft Evaluation Criteria*
  - *Anticipated to be held throughout November 2015*

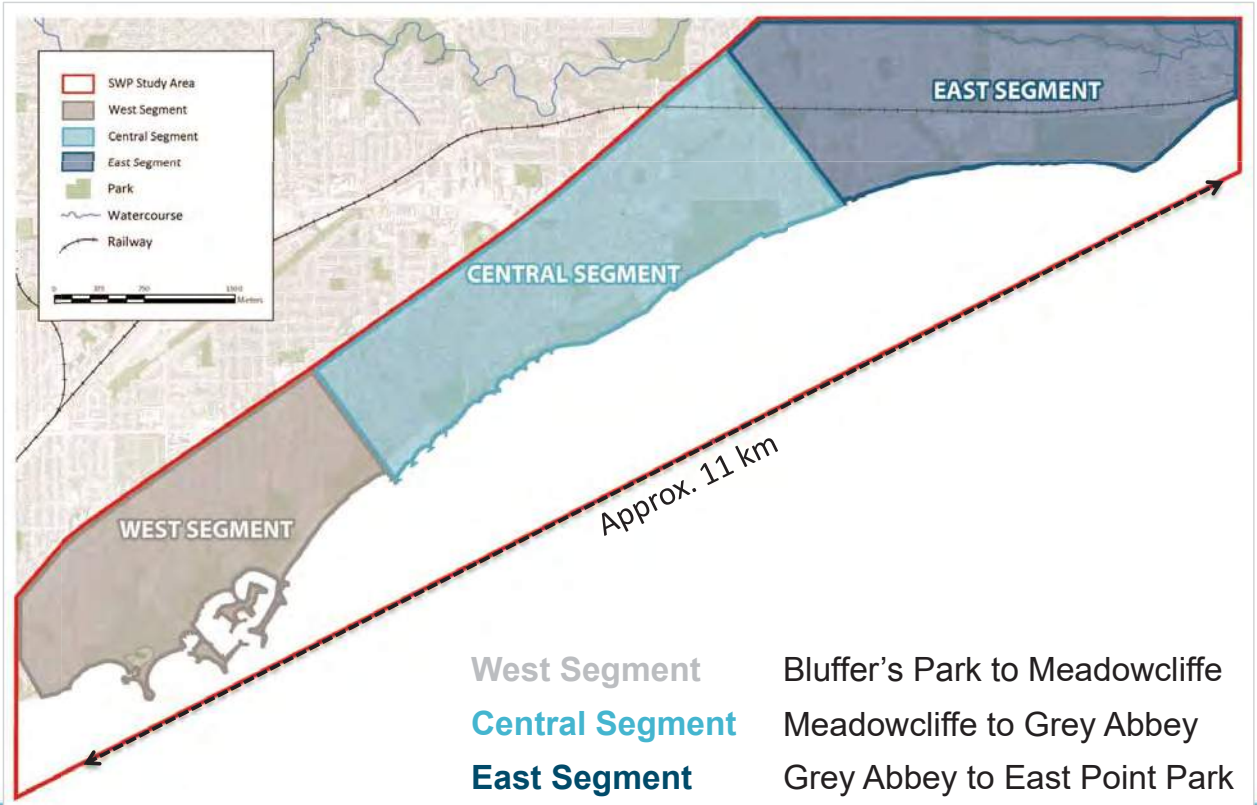
SCARBOROUGH
WATERFRONT PROJECT
Environmental Assessment

Urban Forestry ESA Discussion
October 19, 2016

TORONTO

Toronto and Region Conservation for The Living City

Study Area



West Segment	Bluffer's Park to Meadowcliffe
Central Segment	Meadowcliffe to Grey Abbey
East Segment	Grey Abbey to East Point Park

Project Vision & Objectives

VISION

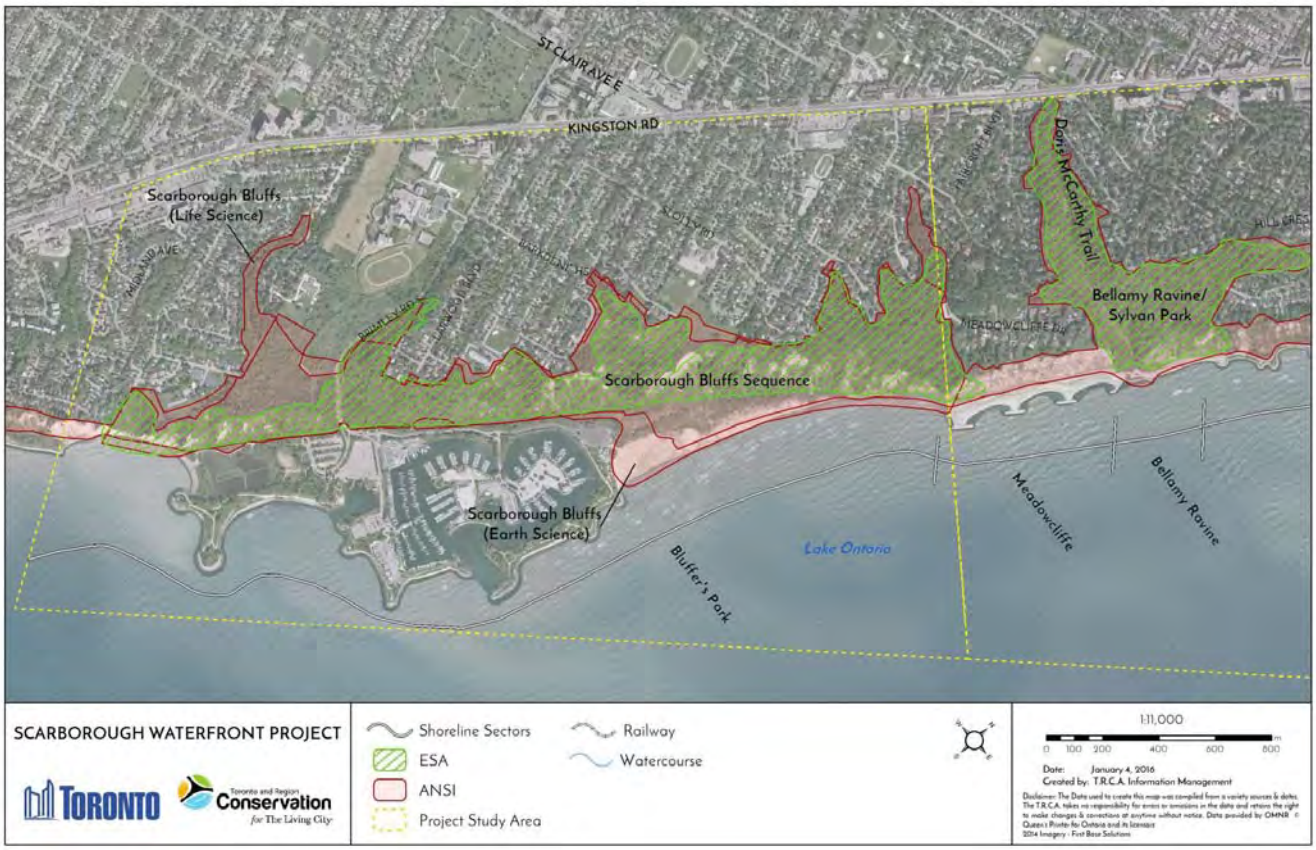
Create a system of greenspaces along the Lake Ontario shoreline which respect and protect the significant natural and cultural features of the Bluffs, enhance the terrestrial and aquatic habitat, and provide a safe and enjoyable waterfront experience.

Photo by Chris Henry

OBJECTIVES

1. Protect and enhance terrestrial and aquatic features and linkages (**natural environment**)
2. Manage public safety and property **risk**
3. Provide an enjoyable waterfront **experience**
4. Consistency and **coordination** with other initiatives
5. Achieve value for **cost**

West Segment



Scarborough Bluffs Sequence ESA

- **Description**
  - Biologically and geologically significant area of bluffs, surrounded by deciduous forest and successional communities and beach.
- **Area**
  - 73.6 Ha
- **Rare Species / Rare Communities**
  - 30 significant flora species
  - 9 significant vegetation communities
- **Significant Landform**
  - The Scarborough Bluffs incorporate four distinct Quaternary sections that have been designated as Provincially Significant.

– **Significant Size, Levels of Diversity**
  - 79 L1 to L4 species
  - 43 vegetation communities

– **Significant Ecological Functions**
  - Bank swallow colonies present within this site (over 100 holes noted)
  - Swamps and marshes provide 4.5 ha of water storage

West Preferred Alternative: Expanded Beach (Wide)

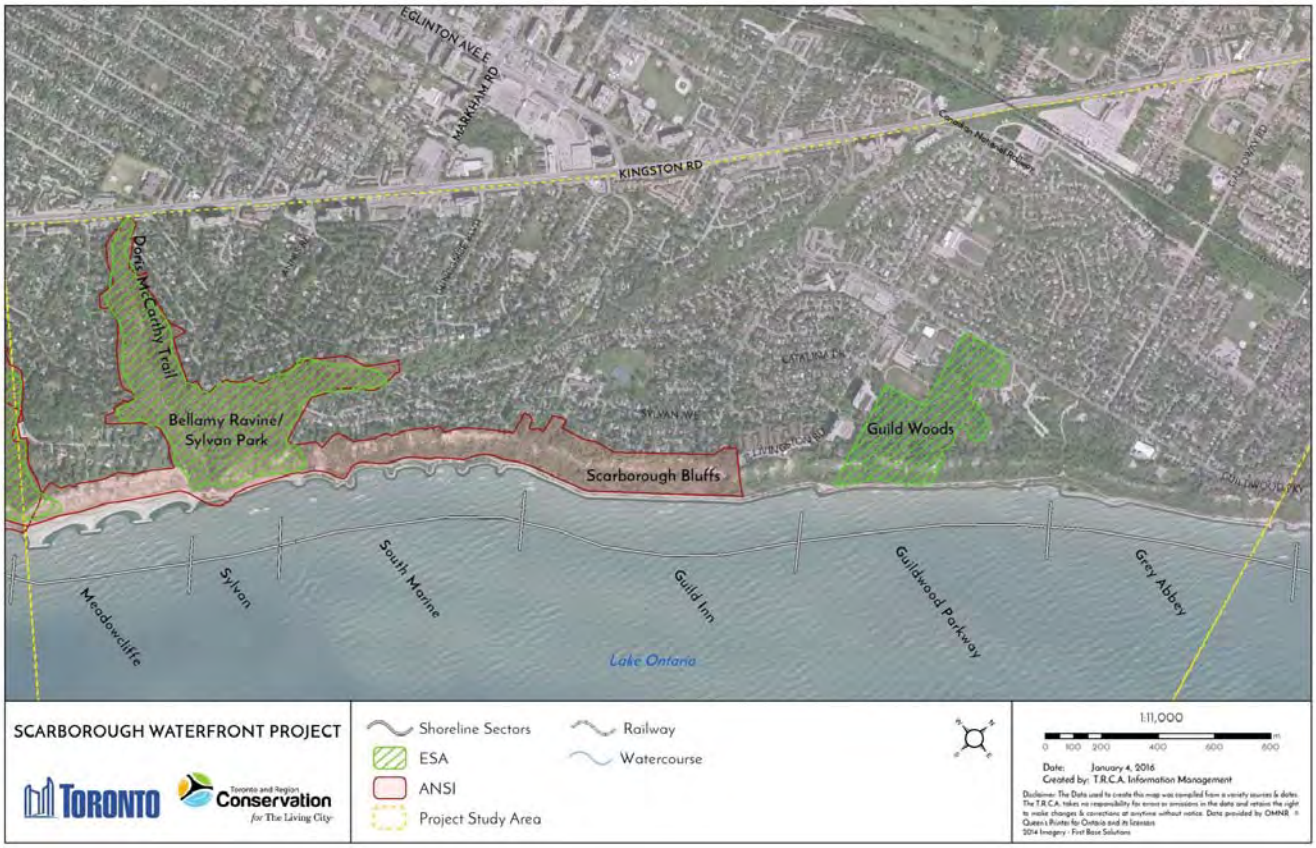
Existing Conditions

Preferred Alternative Conceptual Image

Vegetation Communities

Fauna Species

Central Segment



Bellamy Ravine / Sylvan Park ESA

- **Description**
  - Deciduous forest on steeps slopes of a ravine, with an adjacent area of tableland ending next to the lake at the Scarborough Bluffs.
- **Area**
  - 28.0 Ha
- **Rare Species / Rare Communities**
  - 9 significant flora species
  - 3 significant vegetation communities
- **Significant Landform**
  - None
- **Significant Size, Levels of Diversity**
  - 45 L1 to L4 species
- **Significant Ecological Functions**
  - Approximately 300 bank swallow nests on bluffs just east of the ravine.

Guild Woods ESA

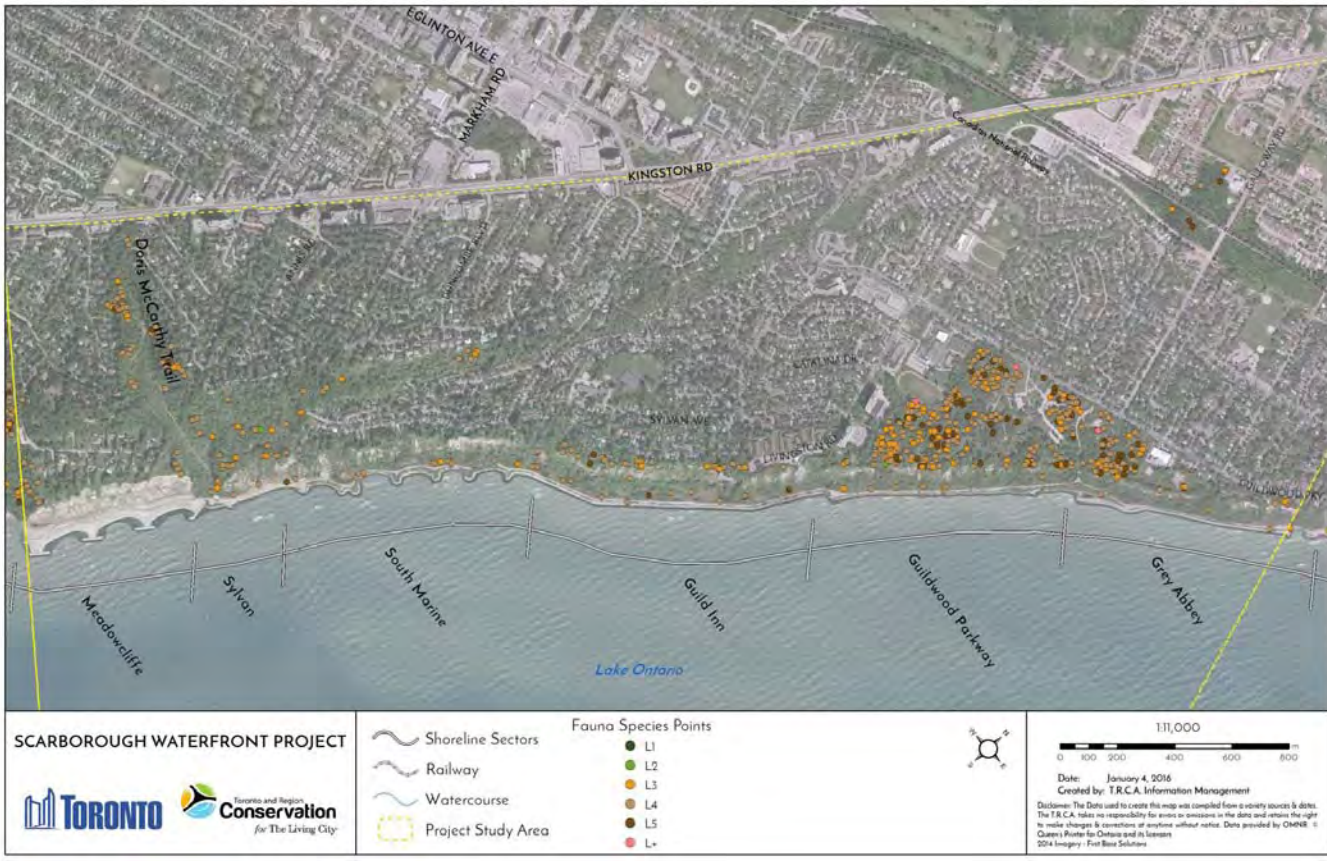
- **Description**
  - Deciduous forest and swamp on tableland, with bluffs along the southern edge (along Lake Ontario).
- **Area**
  - 14.8 Ha
- **Rare Species / Rare Communities**
  - 11 significant flora species
  - 4 significant vegetation communities
- **Significant Landform**
  - None
- **Significant Size, Levels of Diversity**
  - None
- **Significant Ecological Functions**
  - Water storage area of 3.9 Ha.

Central Preferred Alternative: Headland-Beach

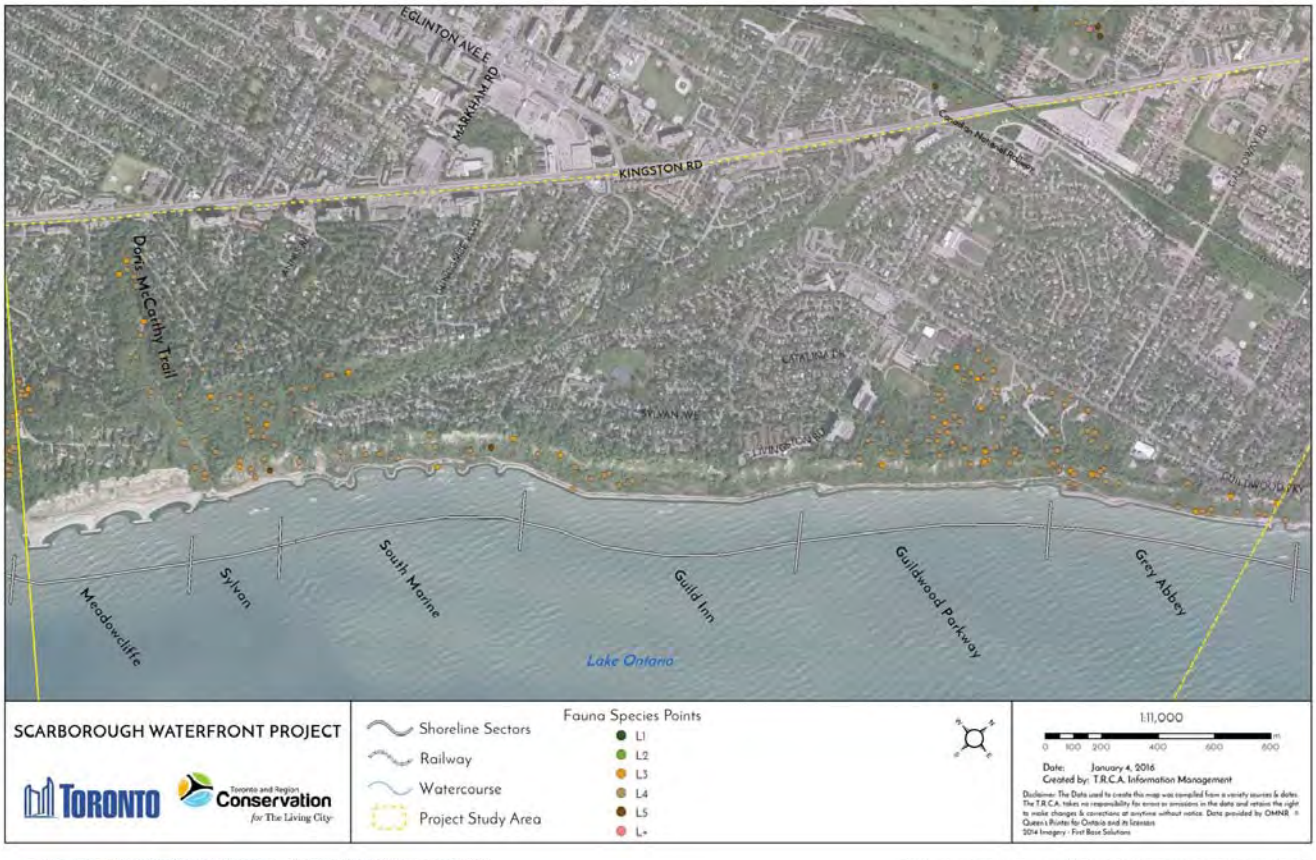
Existing Conditions

Preferred Alternative Conceptual Image

Vegetation Communities



Fauna Species

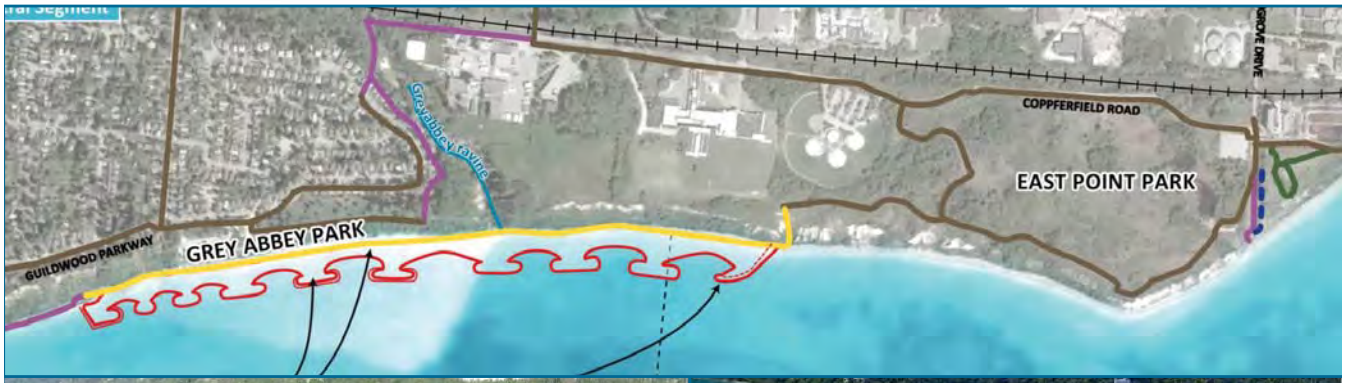


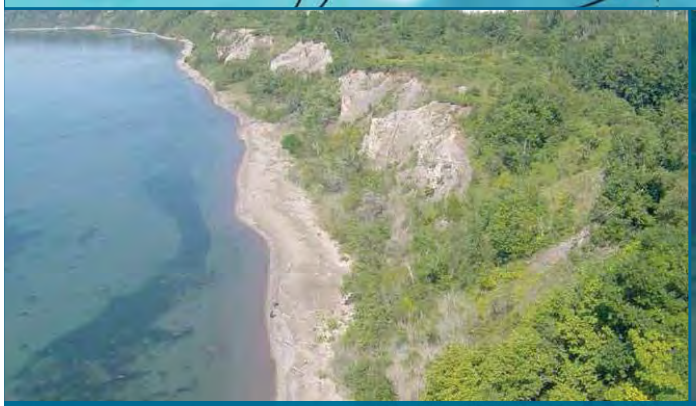
East Segment

East Point ESA

- **Description**
  - Patchy open area associated with active bluffs and gullies representing the east end of the Scarborough Bluffs.
- **Area**
  - 46.6 Ha
- **Rare Species / Rare Communities**
  - 37 significant flora species
  - 9 significant vegetation communities
  - 2 significant fauna species
- **Significant Landform**
  - An excellent example of bluff formation and maintenance.
- **Significant Size, Levels of Diversity**
  - 30 vegetation communities
  - 74 L1 to L4 species
- **Significant Ecological Functions**
  - Total water storage area of 7.2 ha

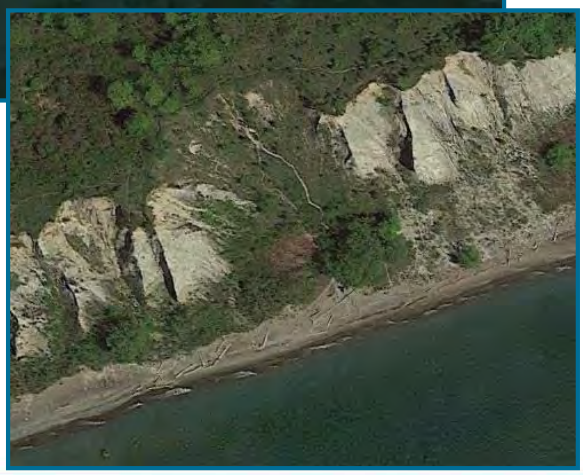
East Preliminary Preferred: Headland – Beach to EPP





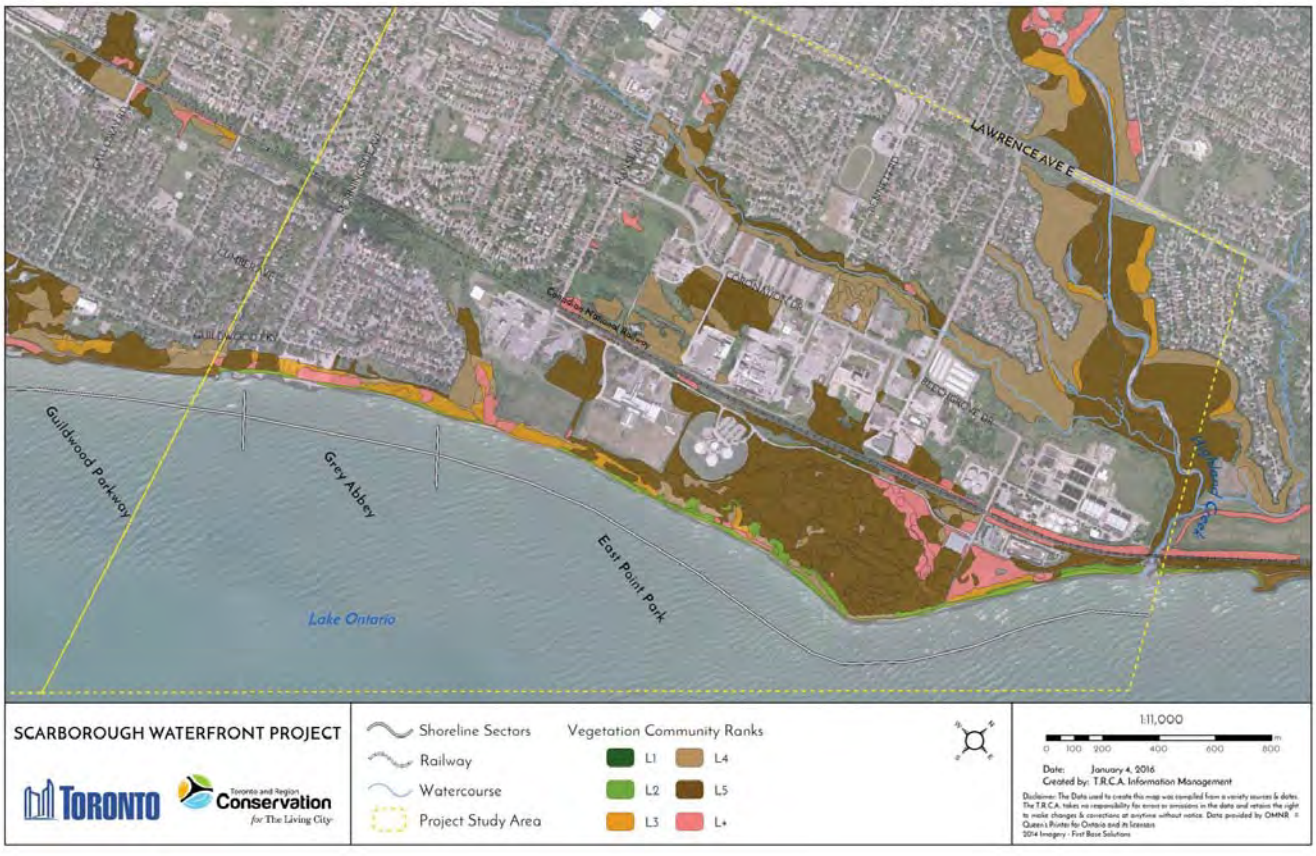
Existing Conditions | Preferred Alternative Conceptual Image

Access Concept Location

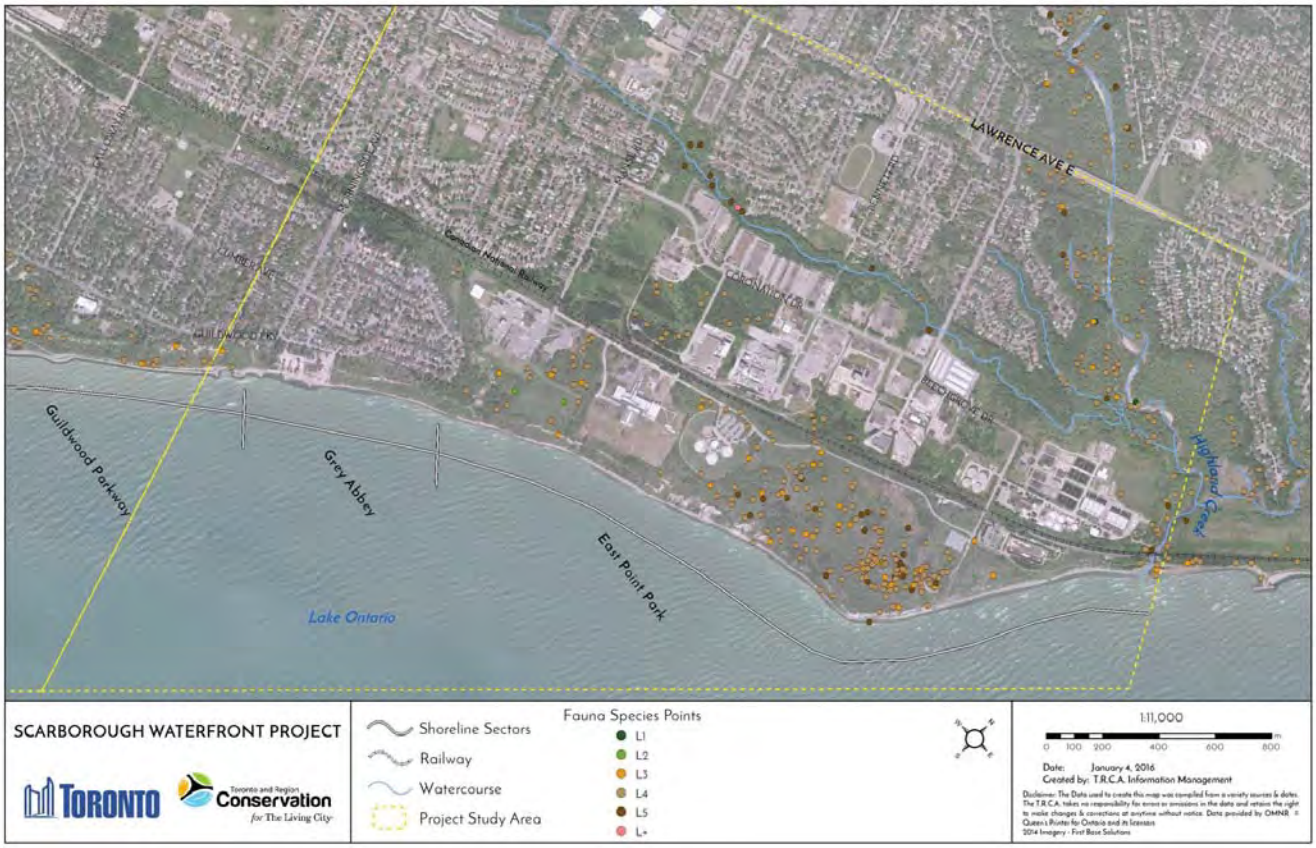


- **Bluffs are well vegetated along this area.**
- **Seeking to formalize and existing well-used informal path.**

Vegetation Communities



Fauna Species



Evaluation

Criteria	Potential for impact on Areas of Natural or Scientific Interest and Environmentally Sensitive Areas
Indicator	- East Point Bluffs Sequence Life Science ANSI - East Point ESA
Indicator Definition	There are a number of designated Life Science ANSIs and ESAs within the Study Area. Alternatives that result in the least impact over the longest time period and where positive impacts occur will be ranked higher. This criterion examines potential impacts to ANSIs and ESAs as a whole - i.e., collections of natural features of significance. Impacts to individual features (e.g., vegetation communities of concern) are examined in other criteria.
Evaluation Result	Preferred: Bluffs stabilization triggered/stimulated at Greyabbey Park, East Point Park portion of ANSI and ESA remains unprotected and tableland loss continues.

Habitat Enhancement Opportunities

- **Terrestrial Targets**
  - Improve natural cover along shoreline focusing on pollinators and migratory birds.
  - Strategic enhancements on tablelands:
    - Targeted habitats for small mammals, herpetiles, cavity nesting birds and caterpillar host plants
    - Invasive species management
  - Decommission informal trails = less habitat fragmentation
  - Management Plan for East Point Park

- **Aquatic Targets**
  - Restore some of rocky habitat lost to stonehooking
  - Create better connectivity for fish from Highland Creek Estuary to Bluffers Park

PF&R Community Disability Steering Committee
City of Toronto and Toronto and Region Conservation Authority (TRCA) Projects

AGENDA

Toronto City Hall
100 Queen St W, Toronto, ON
Committee Room 3
10:00 a.m. – 12:30 p.m.

Time	Item
10:00 – 10:15	**Welcome and Introduction**
10:15 – 11:15	**East Don Trail Environmental Assessment** *Presented by Violetta Savage (TRCA) & Rob Amos (Aquafor Beech Ltd.)* The purpose of this project is to create a key connection in the multi-use trail system, provide safe access to nature and recreational opportunities for the public, and to create a safe travel route. A preferred trail route has been selected and the EA has been filed with the Ministry of Environment and Climate Change. The project is now moving into developing the detailed designs.
11:15 – 11:30	**BREAK**
11:30 – 12:00	**Lower Don Accessibility – Riverdale Bridge New Ramp** *Presented by Bryce Miranda & Chris Veres (DTAH Consulting)* A set of stairs exist currently linking the Riverdale Bridge to the Lower Don Trail. This project reviews the feasibility for a ramp to be in conjunction or to replace these stairs to provide an accessible route into the Lower Don trail.
12:00 – 12:30	**Scarborough Waterfront Project Environmental Assessment** *Presented by Alexandra Papaiconomou (TRCA)* A plan to create a system of greenspaces along an 11 kilometre stretch of the Lake Ontario shoreline between Bluffer's Park to East Point Park.

Light refreshments and snacks will be provided.

TORONTO

Toronto and Region Conservation for The Living City

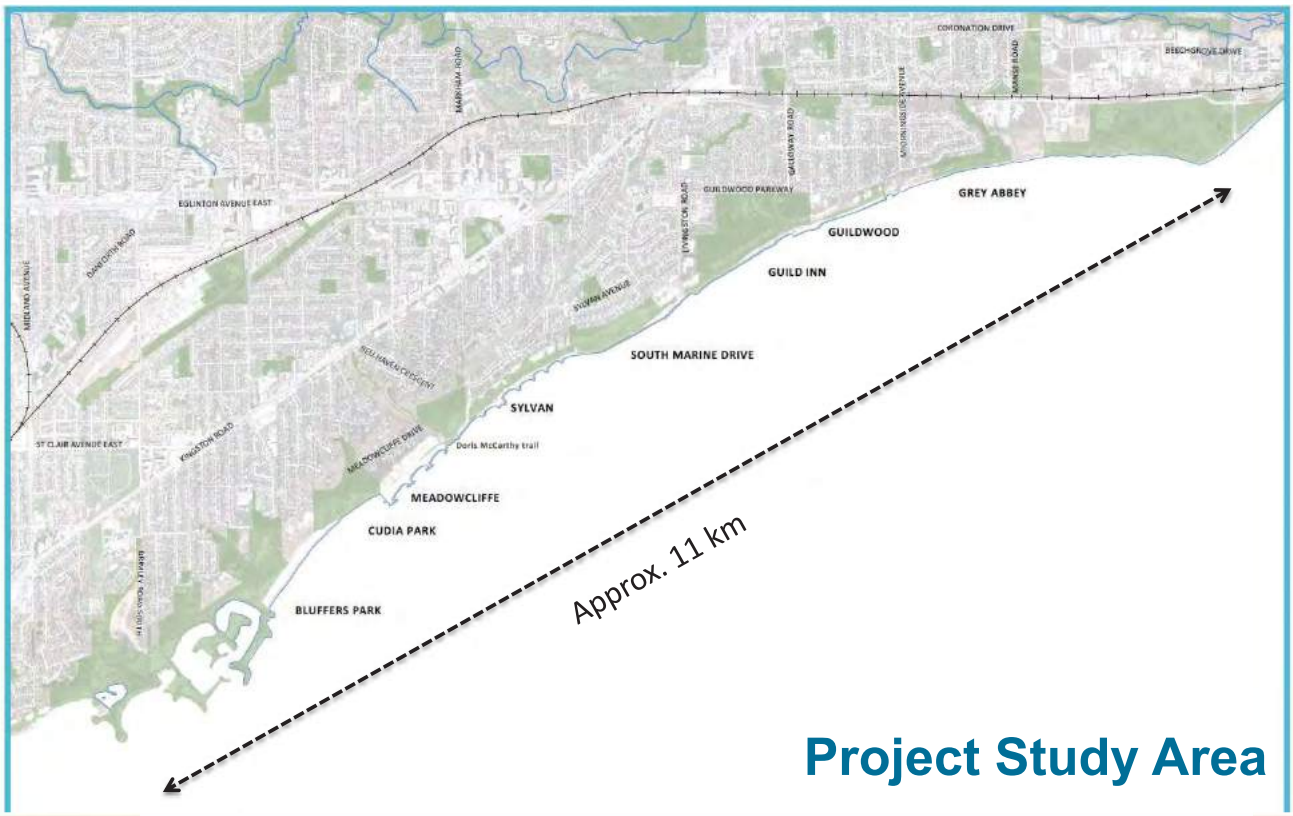
SCARBOROUGH
WATERFRONT PROJECT
Environmental Assessment

Update for Community Disability Steering Committee

Wednesday, February 15, 2017

www.trca.ca/swp

1 | Project Overview



Project Study Area

1 | Project Overview

VISION

Create a system of greenspaces along the Lake Ontario shoreline which respect and protect the significant natural and cultural features of the Bluffs, enhance the terrestrial and aquatic habitat, and provide a safe and enjoyable waterfront experience.

Photo by Chris Henry

OBJECTIVES

1. Protect and enhance terrestrial and aquatic features and linkages (**natural environment**)
2. Manage public safety and property **risk**
3. Provide enjoyable waterfront **experiences**
4. Consistency and **coordination** with other initiatives
5. Achieve value for **cost**

1 | City Building & Recreational Spaces

➢ Population Increase

- Population projected to increase by 32% in the next 25 years.

➢ Intensification

- Toronto is planning for more compact and intensified communities in the future.

➢ Changes in Recreational Use

- More people accessing greenspaces and using them in different ways.

All of these things will increase pressure on existing park spaces, so we need a comprehensive plan to manage use of recreational spaces.

2 | About the Study Area

Stonehooking changed the nature of the Bluffs

- **1850 – 1910:** Approximately one million cubic metres of rocky materials were removed from the Lake Ontario shoreline.
- Erosion of the Bluffs was accelerated.
- Valuable aquatic habitat was lost

Stonehooking Schooner

2 | About the Study Area

Development changed the nature of the Bluffs

- Residential communities rapidly build right up to edge of Bluffs.
- Erosion accelerated at the base of the Bluffs.
- Shoreline protection was required at the base of the Bluffs to protect infrastructure at the top of the Bluffs.

Rural Scarborough Bluffs in 1947

Bluffs following Urbanization in 1962

4 | Summary of the EA Process

WE ARE HERE

PHASE 1
Terms of Reference

July 2014 – June 2015

- High level document
- Sets the stage for EA
- Approved by the Minister of Environment and Climate Change on December 15, 2015

PHASE 2
Environmental Assessment

January 2016 – 2017

- Fulfill the direction of Terms of Reference and other plans to meet the Vision and Objectives
- How to implement the Vision and Objectives.

PHASE 3
Detailed Design & Construction

2018 - 2027

- Final Design
- Construction

3| Public Input

➢ Public Input helps shape the Project

- Over 1,500 comments received from last Public Information Centre
- Every comment is read and considered.
- Public Input is considered as part of the refinement of the Preferred Alternative.

5 | Overall Preferred Alternative

Key Features

- Improved aquatic & terrestrial habitat.
- Improved formal, safe, public access along the waterfront for all abilities.
- Provides a variety of waterfront experiences.
- Increases length of publically accessible shoreline by approximately 1.6 km.

5 | West Segment: Expanded Beach (Wide)

Key Features

- Bluffer's Park Headland to achieve wide sand beach
- Extension of existing trail across new beach

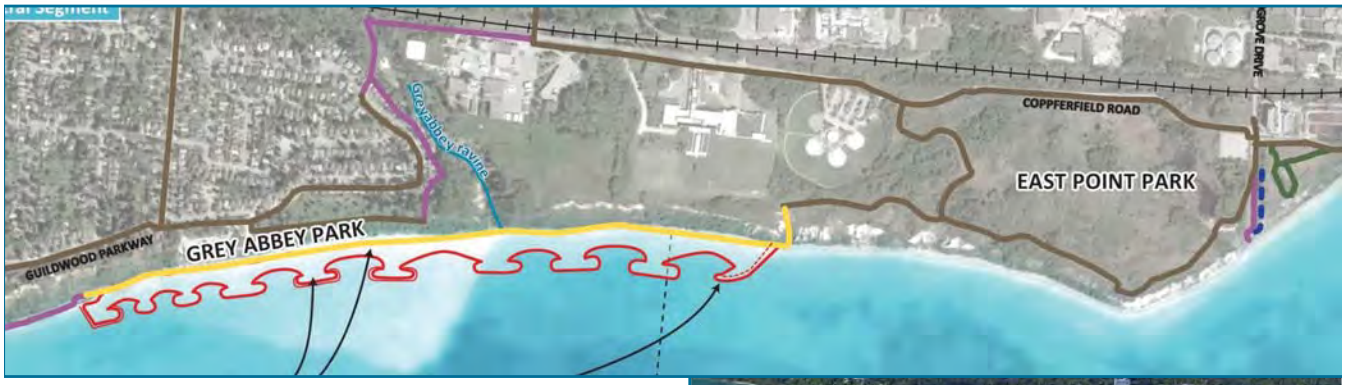
Preferred Alternative Conceptual Image

5 | Central Segment: Headland-Beach

➢ Key Features

- Public gathering space at bottom of Doris McCarthy & Guild Park & Gardens
- Headland-beach underwater

5 | East Segment: Headland – Beach to EPP



➢ Key Features

- Bottom of Bluffs trail to East Point Park
- Accessible grade transition to top of Bluffs at East Point Park

Preferred Alternative Conceptual Image

6 | Access Route Concepts

- Development of Access Route Concepts considered the following:
  - Grades
  - Risk to public safety
  - Existing formal and informal access points
  - Natural Heritage features
  - Private property
  - Other technical constraints

- These factors influenced the access routes that could be considered and how they could be achieved.
- Where feasible, trying to achieve AODA grade and trail surfaces.
- Additional AODA features will be considered in the Detailed Design phase.

6 | Access Route Concept – Brimley Road

- Recognized need for improved pedestrian and cyclist access.
- Brimley Road is significantly constrained by grades and adjacent former landfill.
- Proposal to add a pedestrian and cycling path on east side of Brimley Road.
- Minor acquisition may be required from rear of some properties.

6 | Access Route Concept – Doris McCarthy Trail

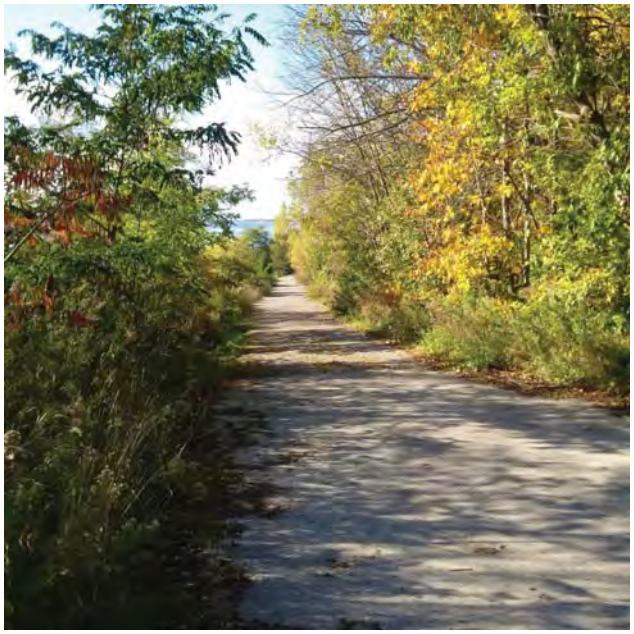
- Existing Conditions:
  - Trail is very steep at the beginning and end.
  - Surface is granular
  - No available parking

- Given the impact that grading to natural heritage features, recommendation is to maintain existing conditions.

6 | Access Route Concept – Guild Access Road

- Existing conditions:
  - Steep grade along entire length
  - Asphalt surface in fair condition

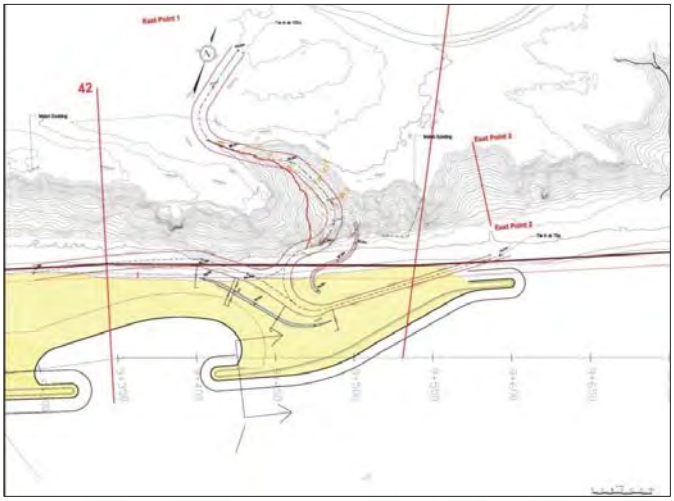
- Recommendation is to explore other mitigation options (e.g. level rest areas).



6 | Access Route Concept - East

➢ Shoreline to Tableland Connection

- Trail follows existing gully.
- Grade will meet AODA guidelines.
- Other features to be determined at detailed design phase.



6 | Access Route Concept – Port Union Connection

- Secondary trail
- Remain along the water's edge
- Seamless connection from the new trail to Port Union Waterfront Trail.

7 | Next Steps

Item	Timeline
Refinements to Preferred Alternative	Underway
Habitat Enhancement Opportunities	Underway
Detailed Effects Assessment	Underway
Construction Access	Underway
Public Information Centre #3	Spring 2017
City Public Works & Infrastructure Committee	Summer/Fall 2017
TRCA Authority Board & City Council	Summer/Fall 2017
Draft EA Submission	Late 2017
SC Draft EA Page-Turn Review	Late 2017
Official EA Submission	Late 2017

Questions & Comments?

SCARBOROUGH WATERFRONT PROJECT - ENVIRONMENTAL ASSESSMENT
CITY OF TORONTO | TORONTO AND REGION CONSERVATION

Thank You!

For more information, visit:
www.trca.ca/swp

Scarborough Waterfront Project EA
Construction Access, Phasing, Staging

Date: Monday, March 27, 2017
Time: 1:00P.M. – 3:00 P.M.
Location: Scarborough Civic Centre (150 Borough Drive), Room M53 (5th Floor)

Invitees: Alexis Moxley (AM), Anneliese Grieve (AG), Ben Ryzebol (BR), Bill Snodgrass (BS), Christopher Martin (CM), Daphne Wee (DW), Gord Bacon (GB), Jennifer Hyland (JH), Marko Oinonen (MO), Michelle Reid (MR), Moranne McDonnell (MM), Nancy Lowes (NL)

Time	Agenda Item
1:00 PM	Purpose of the Meeting (*Alexis*)
1:05 PM	Refined Preferred Alternative (*Katherine / Alexis*) • Overview of the Refined Preferred Alternative
1:20 PM	Construction Assumptions (*Alexis*)
1:40 PM	Proposed Construction Access (*Alexis*)
2:00 PM	Construction Staging (*All*)
2:30 PM	Construction Phasing & Priority Components *(All)*

SCARBOROUGH
WATERFRONT PROJECT
Environmental Assessment

Construction Access, Staging, Phasing Meeting with the City of Toronto

March 27, 2017

Agenda

1. Introductions
2. Meeting Objectives
3. Refined Preferred Alternative
4. Construction Access, Staging & Phasing
5. Next Steps & Closing

Meeting Objectives

1. Present & identify any potential concerns with the proposed approach for construction access, staging & phasing, including:
   - Recommendations in the Traffic Impact Assessment;
   - Construction access locations for each component;
   - Process for constructing the west segment (interim configuration); and,
   - General construction staging areas for each component.

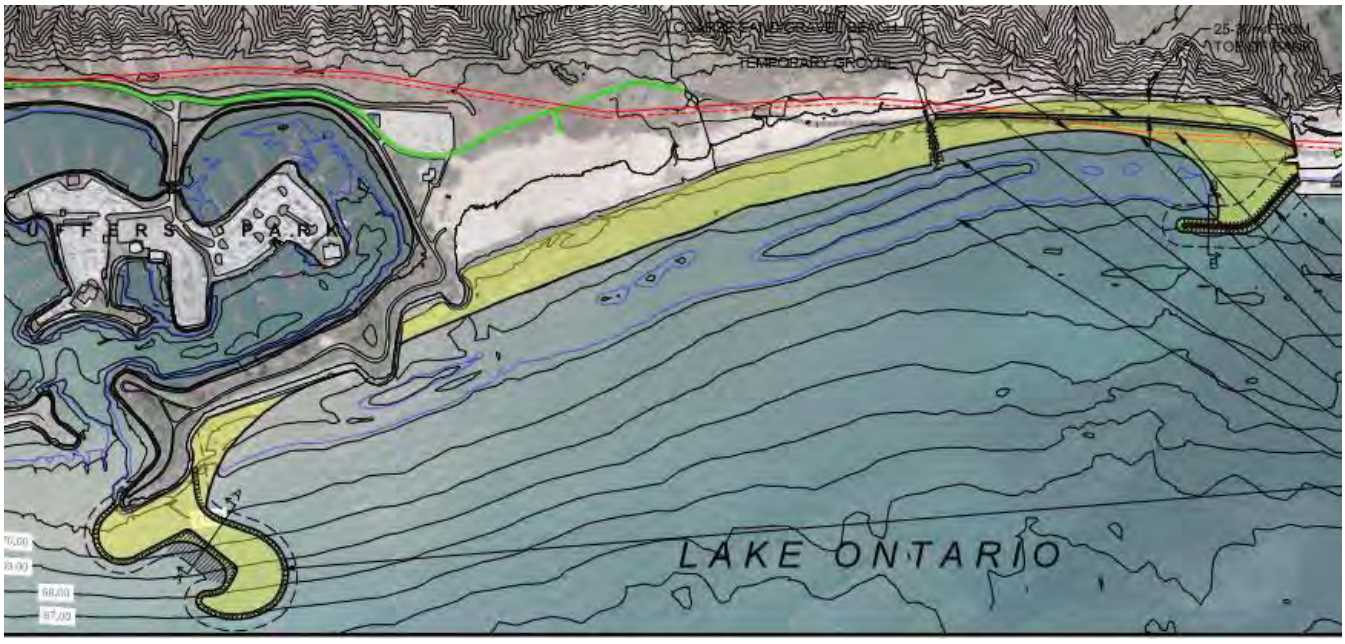
2. Identify and resolve any additional outstanding concerns.

SWP Project Timelines

Deliverable	Timelines
Detailed effects assessment & mitigation measures	March 24 – April 5
Draft EA complete	April 24
Draft EA circulated to City and TRCA for review	April 25
TRCA & City page-turn reviews	Week of May 8
Stakeholder Committee meeting	June 7
Public Information Centre	Late-June

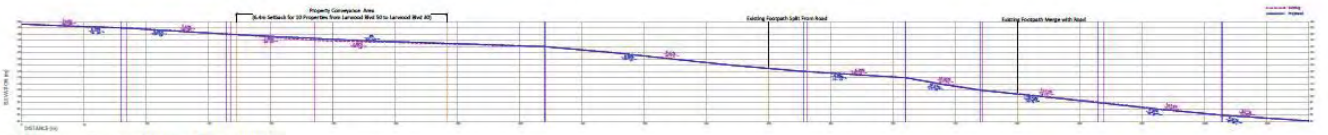
Overview of Refined Preferred Alternative

West Segment

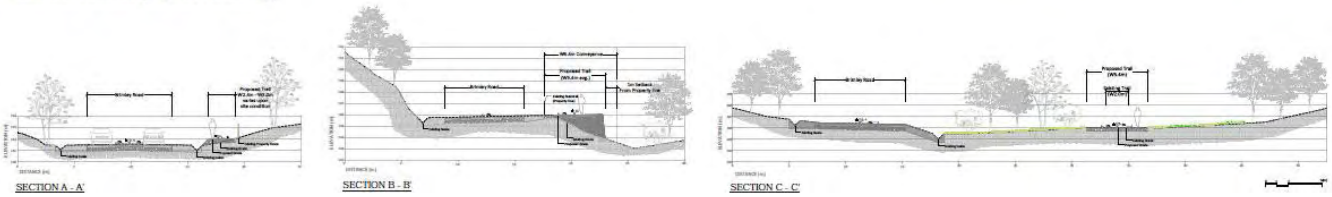


West Segment: Brimley Road

Proposed trail layout & conceptual grading plan



Profile Cross Section (proposed vs. existing)



SECTION A - A'

SECTION B - B'

SECTION C - C'

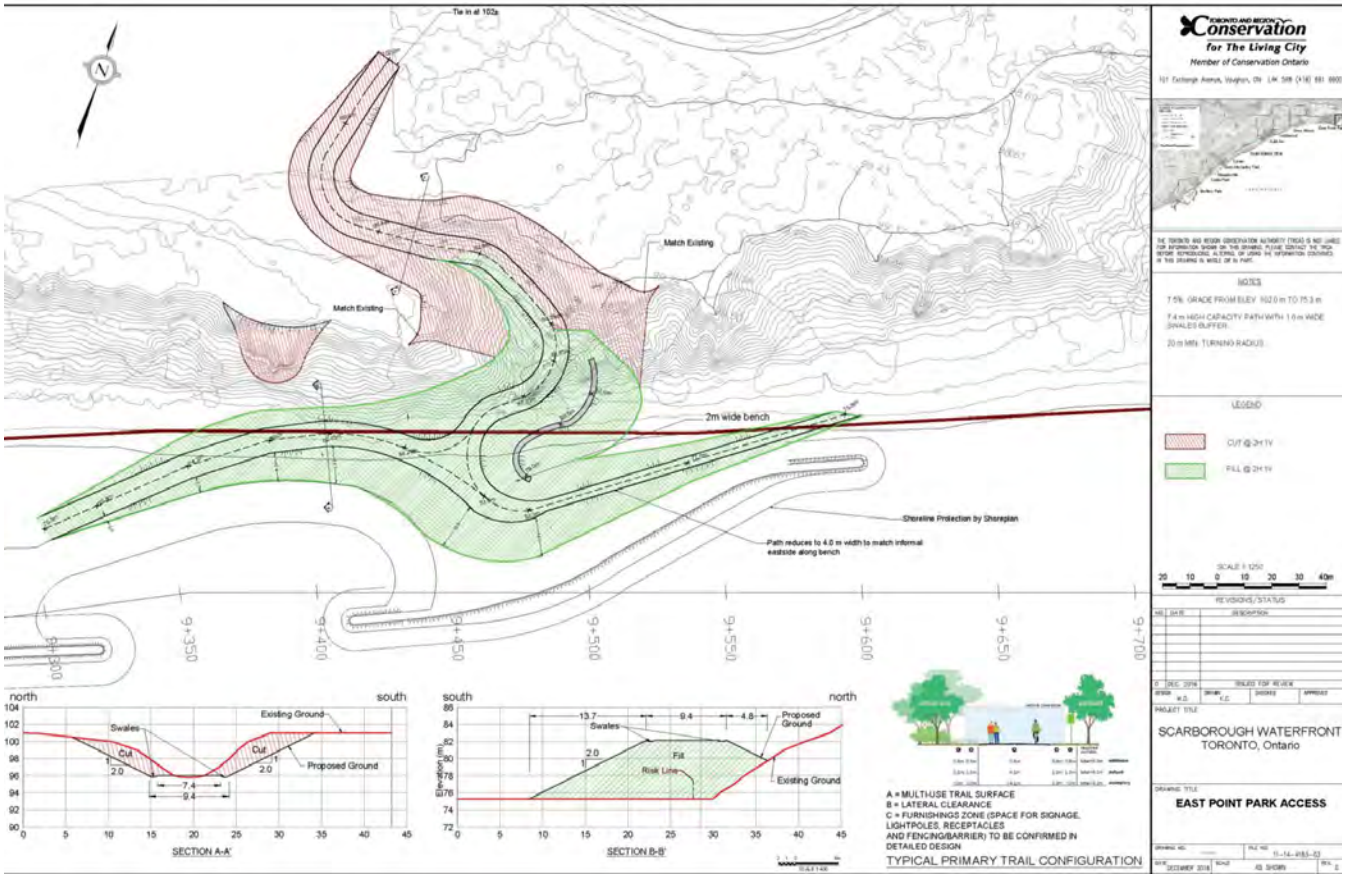
Central Segment

Central Segment: Shoreline Access

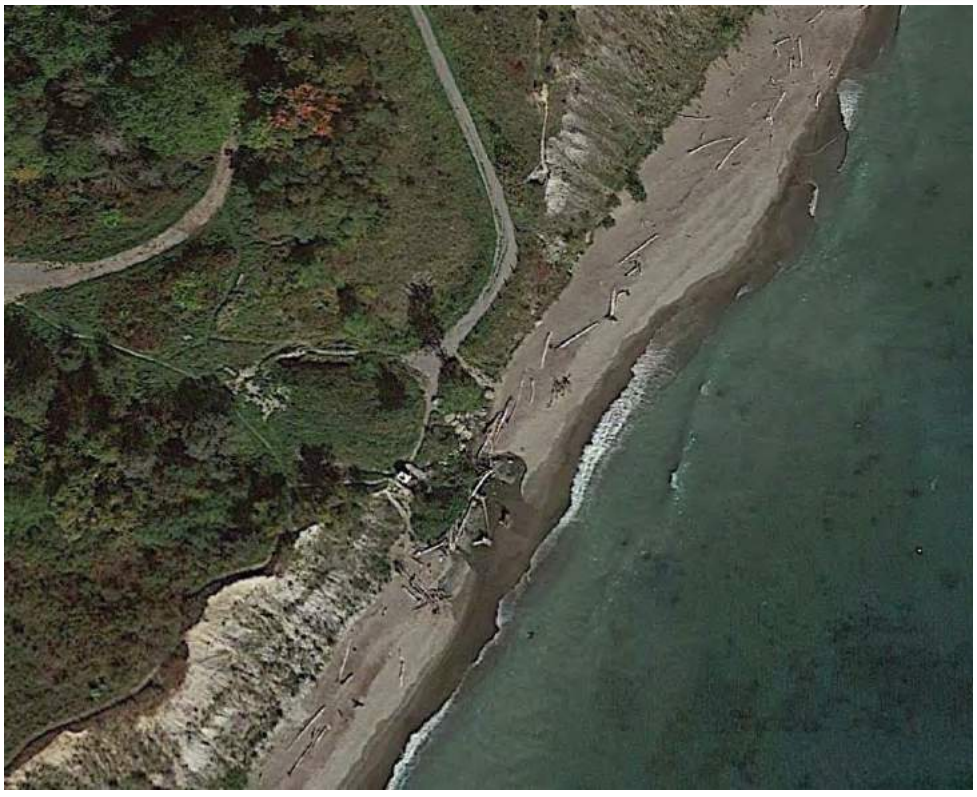
- No improvements to Doris McCarthy Trail.
- Guild Construction Access Road:
  - Improvements to trail surface (as part of detailed design).
  - Addition of level rest areas.
  - Improved connection between the access road and the Guild Park and Gardens site, as well as improved connection between the access road and the eastern parking lot. To be determined as part of the Guild Park and Gardens Trail Master Plan.

East Segment

East Segment: Tableland Access



East Segment: Beechgrove



Construction Assumptions

- Timing windows: Construction 10-months of the year, with appropriate mitigation measures for working under extended timing windows.
- Dredgeate from Bluffer's Park marina can be used for West Segment beach expansion.

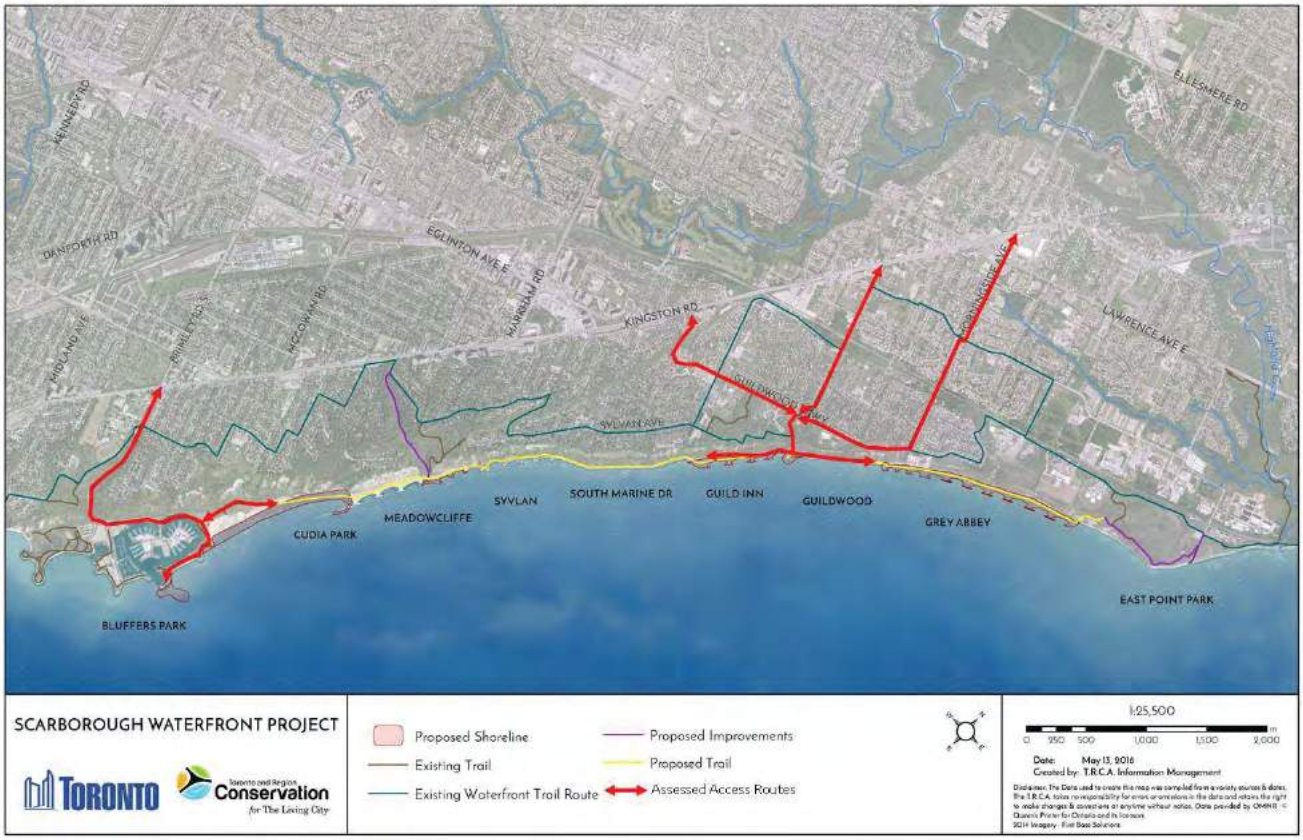
Construction Access & Staging

Objectives

Present & identify any potential concerns with the proposed approach for construction access, staging & phasing, including:

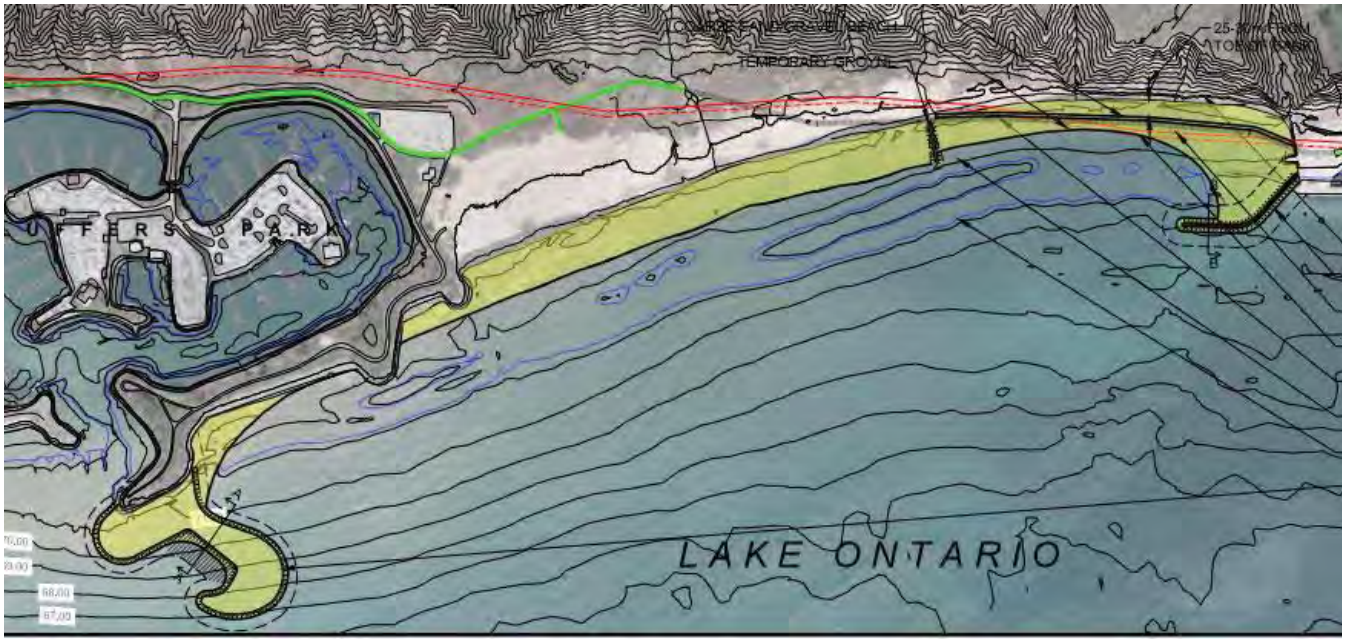
- Recommendations in the Traffic Impact Assessment, and identify and potential concerns;
- Construction access locations for each component;
- Process for constructing the west segment (interim configuration); and,
- General construction staging areas for each component, particularly west segment and east tablelands.

Potential Access Routes

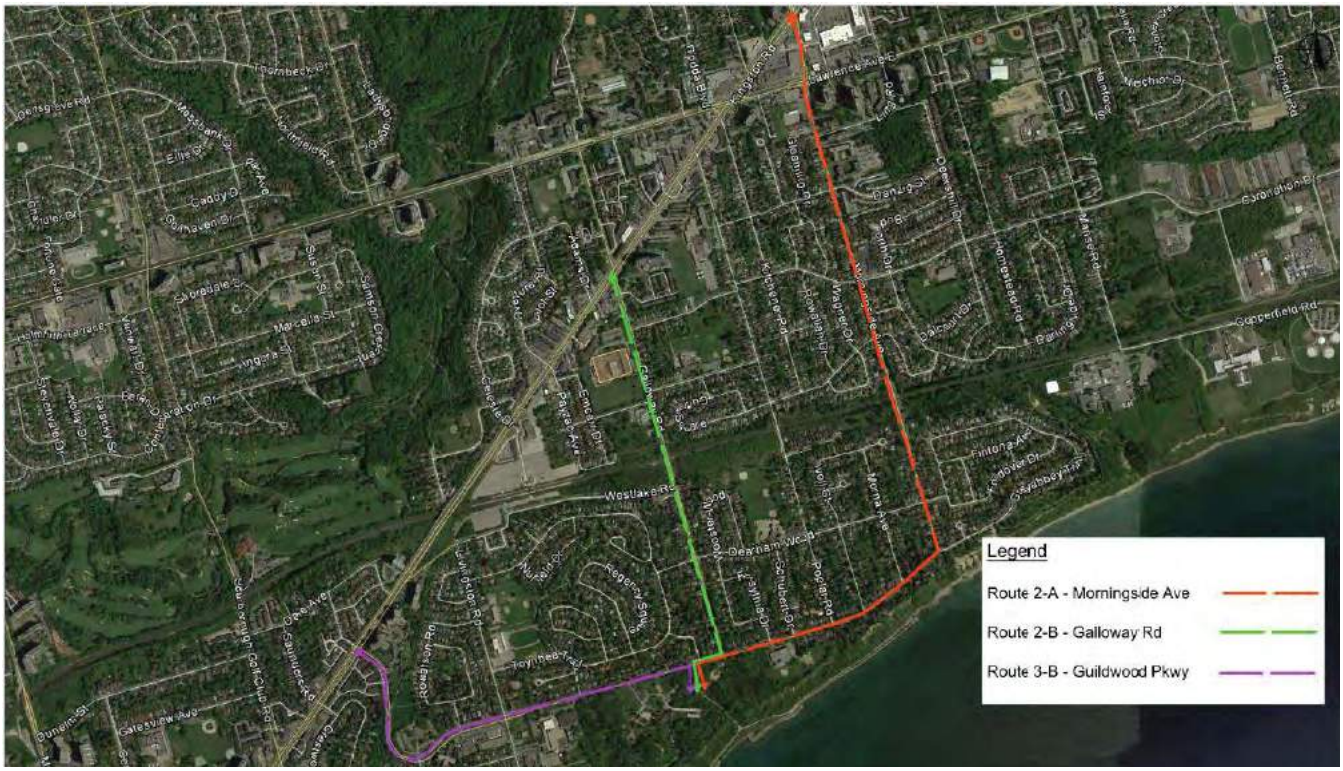


West Segment

West Segment: Interim Configuration



East & Central Segment Shoreline



East Segment: Shoreline

East Segment: Tablelands

Construction Phasing

Objective: Timing for construction of the shoreline and access components relative to each other.

Construction Phasing

- Assumptions:
  - Full build-out at once
  - Move from west to east
  - Bluffer's Park beach to accumulate over time, with immediate build-out of the eastern section to facilitate the trail connection to Meadowcliffe.

- In general, this will be finalized at detailed design, in consultation with the local community.

SCARBOROUGH WATERFRONT PROJECT - ENVIRONMENTAL ASSESSMENT
CITY OF TORONTO | TORONTO AND REGION CONSERVATION

Meeting Objectives

1. Present & identify any potential concerns with the proposed approach for construction access, staging & phasing, including:
   - Recommendations in the Traffic Impact Assessment, and identify and potential concerns;
   - Construction access locations for each component;
   - Process for constructing the west segment (interim configuration); and,
   - General construction staging areas for each component, particularly west segment and east tablelands.

2. Identify and resolve any additional outstanding concerns.

SCARBOROUGH
WATERFRONT PROJECT
Environmental Assessment

East Segment Tableland Trail Alignment Review with Urban Forestry

March 27, 2017

TORONTO

Toronto and Region Conservation for The Living City

East Segment Tableland Trail

East Segment ELC Communities

SCARBOROUGH WATERFRONT PROJECT

Environmental Assessment

Project Update with First Responders

June 13, 2017

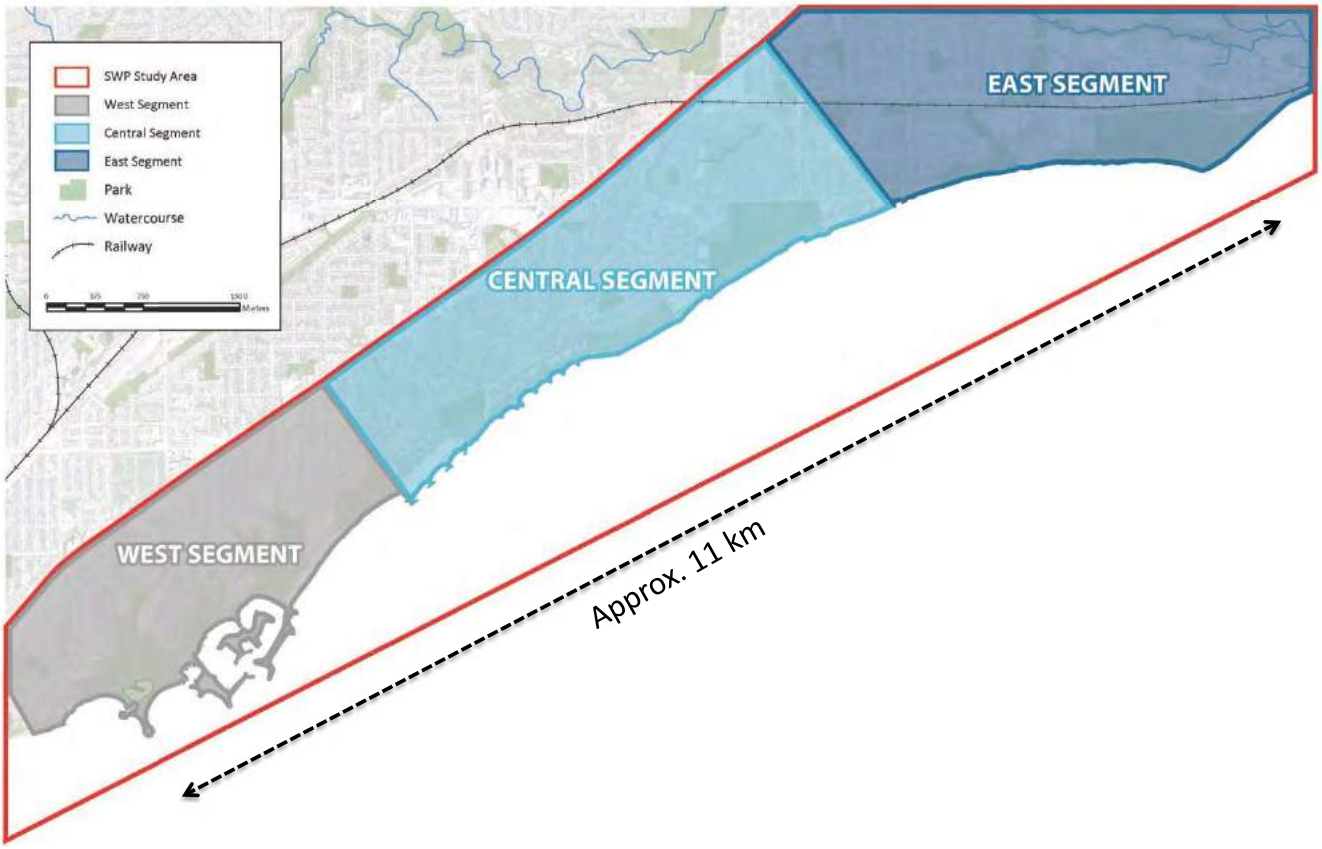
TORONTO

Toronto and Region Conservation for The Living City

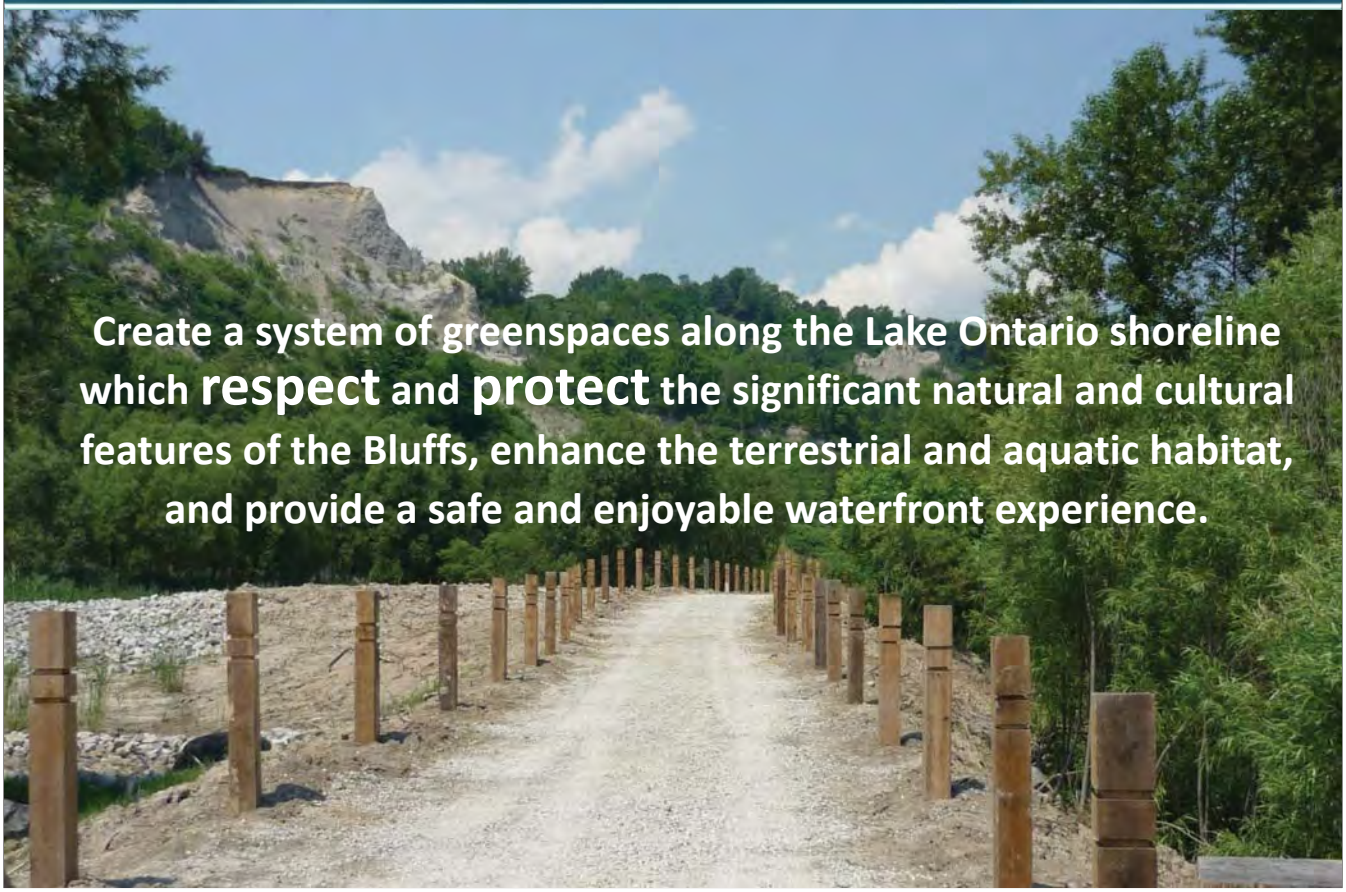
Outline

1. Reminder: Study Area, Vision & Objectives
2. Refined Preferred Alternative
    1. West Segment Shoreline and Brimley Road
    2. Central Segment Shoreline, and Doris McCarthy Trail & Guild Construction Access Road
    3. East Segment Shoreline & Tableland Trail
3. Next Steps

Project Study Area



Project Vision



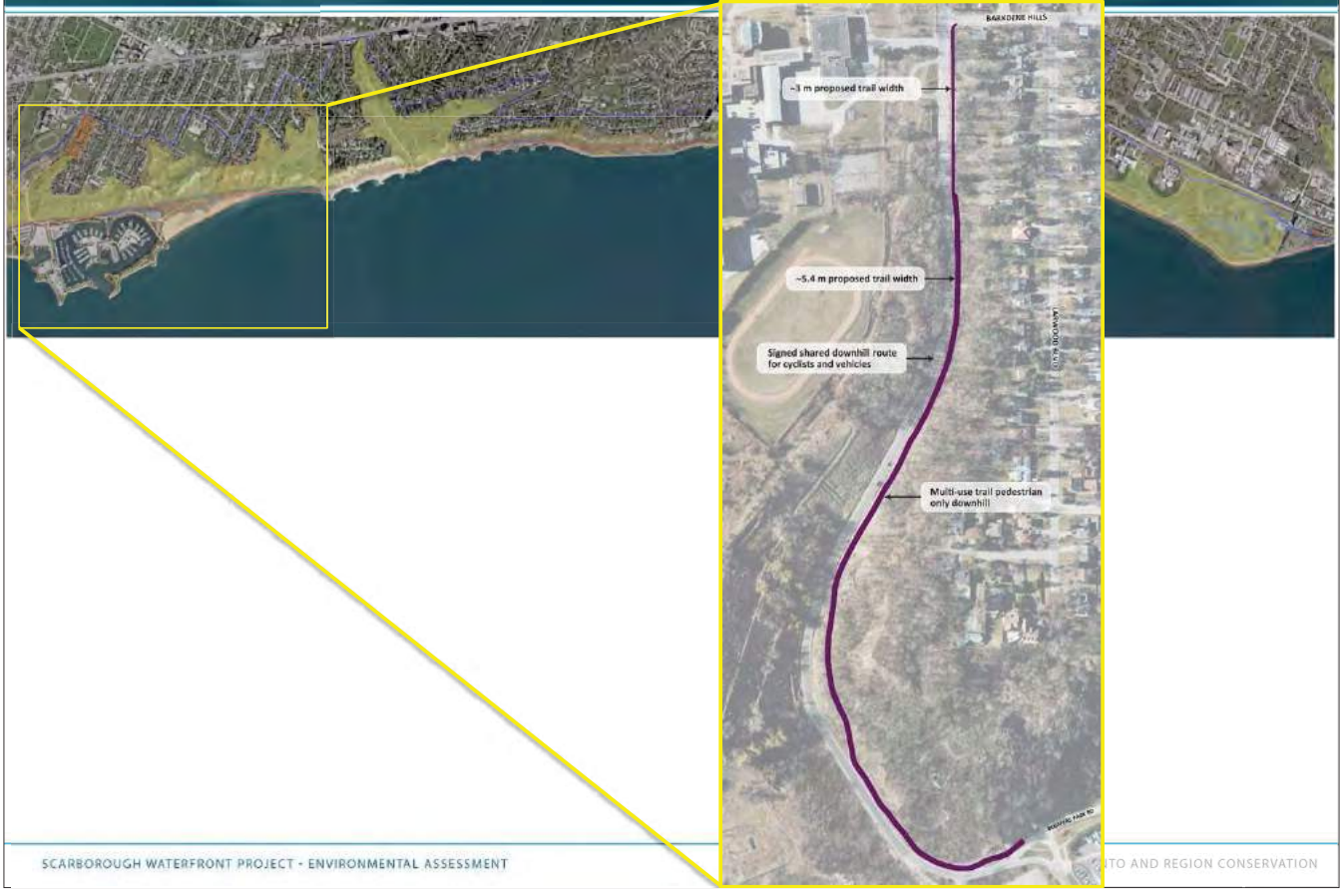
Project Objectives

1. Protect and enhance **natural environment** (terrestrial and aquatic features and linkages)
2. Manage public safety and property **risk**
3. Provide enjoyable waterfront **experiences**
4. Consistency and **coordination** with other initiatives
5. Achieve value for **cost**

Baseline Conditions – West Segment

Refined Preferred – West Segment

Refined Preferred – Brimley Road



Baseline Conditions – Central Segment

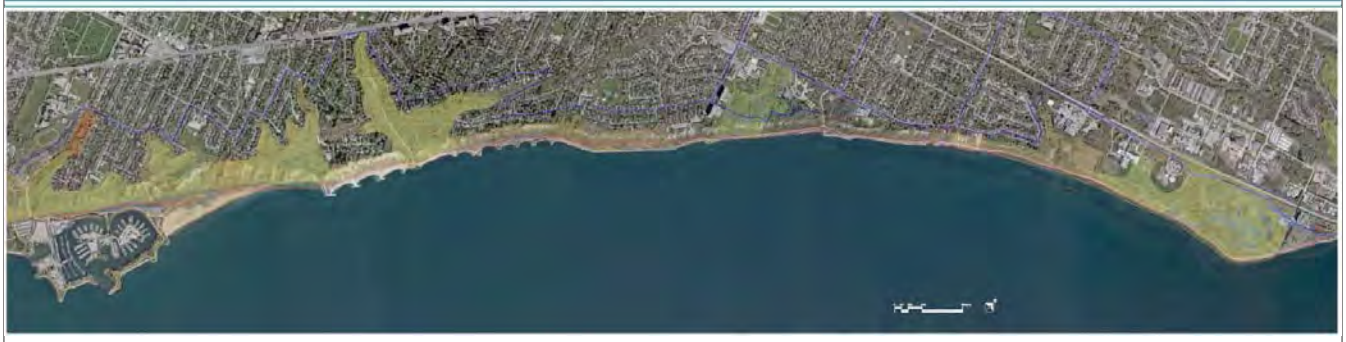
Refined Preferred – Central Segment

Baseline Conditions – East Segment

Refined Preferred – East Segment

East Segment Trail: Tableland Transition

Baseline Conditions



Refined Preferred Alternative

Project Timelines

Deliverable	Timelines
Stakeholder Committee meeting	June 14, 2017
Public Information Centre	June 28, 2017
TRCA Authority	July 28, 2017
Target Draft EA Submission	Mid August 2017
City of Toronto Executive Committee	September 2017
City of Toronto Council	October 2017
Target Formal EA Submission	November 2017

Questions?

SCARBOROUGH WATERFRONT PROJECT

Environmental Assessment

Project Update with Community Disability Steering Committee Members

June 22, 2017

TORONTO

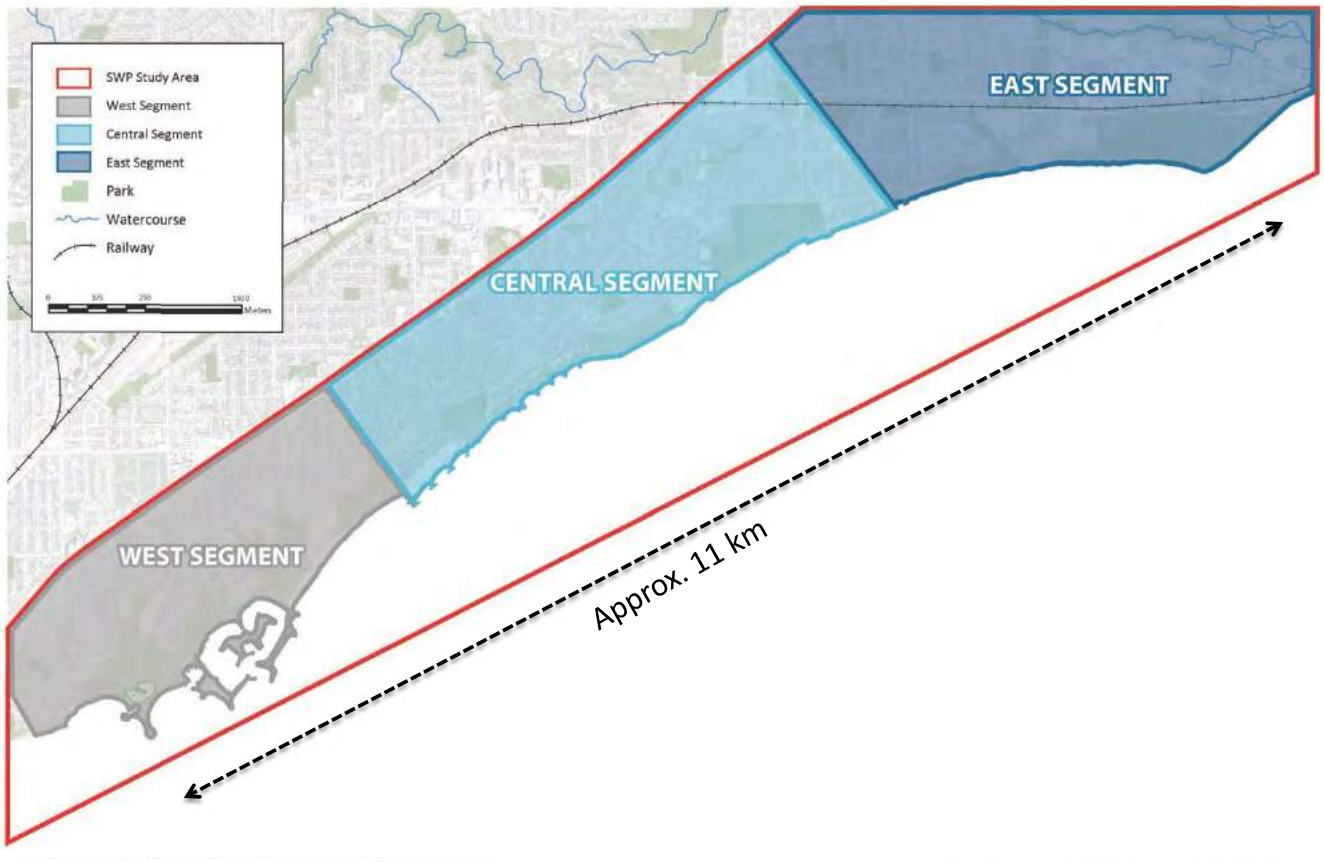
Toronto and Region Conservation for The Living City

Outline

1. Brief Project Overview
2. Refined Preferred Alternative
3. Access Routes
4. Next Steps

1 | Project Overview

Project Study Area



Project Vision

Create a system of greenspaces along the Lake Ontario shoreline which **respect** and **protect** the significant natural and cultural features of the Bluffs, **enhance** the terrestrial and aquatic habitat, and provide a **safe** and **enjoyable** waterfront experience.

Project Objectives

1. Natural environment
2. Risk
3. Waterfront experiences
4. Coordination
5. Cost

Summary of the EA Process

WE ARE HERE

PHASE 1
Terms of Reference

2014 – 2015

PHASE 2
Environmental Assessment

2016 – 2017

PHASE 3
Detailed Design & Construction

2018/19 – 2027

2 | Preferred Alternative

Baseline Conditions – West Segment

Refined Preferred – West Segment

Baseline Conditions – Central Segment

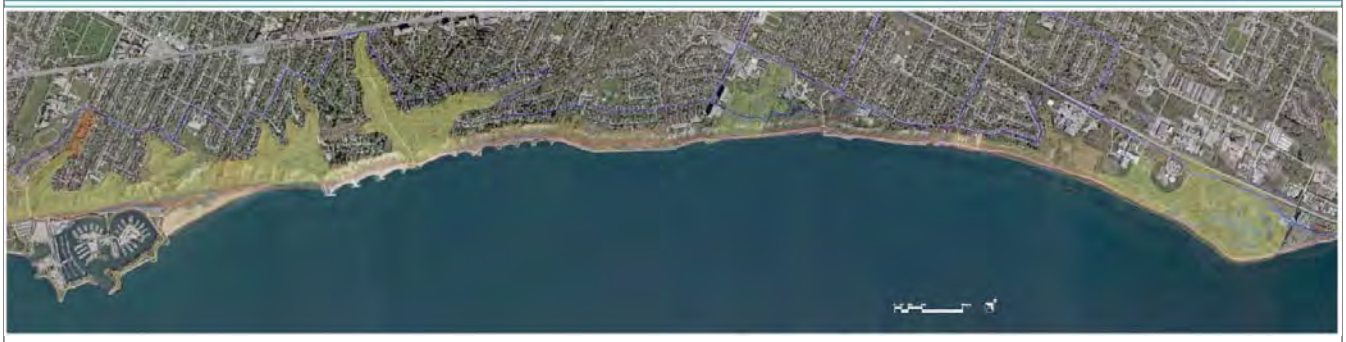
Refined Preferred – Central Segment

Baseline Conditions – East Segment

Refined Preferred – East Segment

East Segment Trail: Tableland Transition

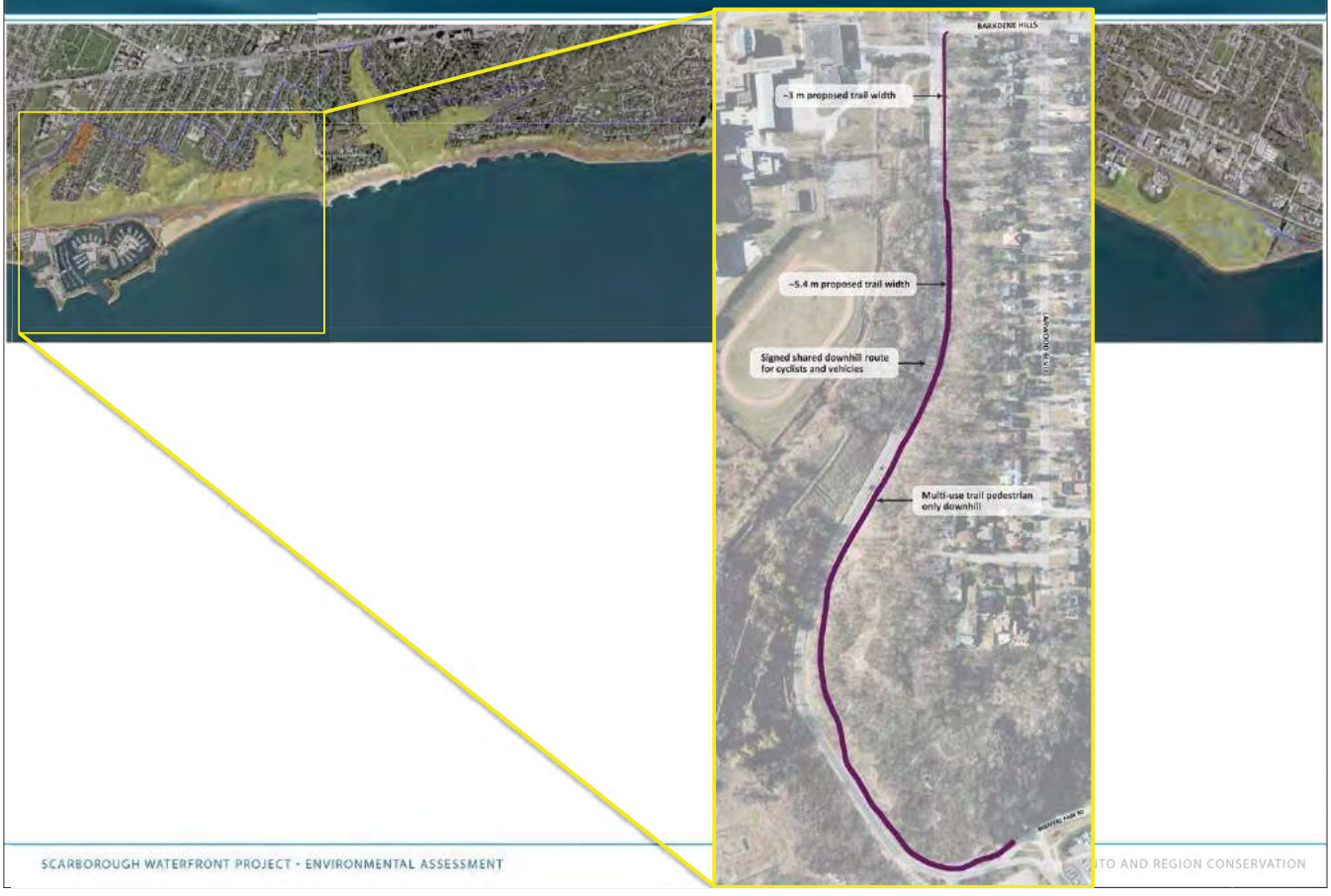
Baseline Conditions



Refined Preferred Alternative

3 | Access Routes

Refined Preferred – Brimley Road



Central Segment: Doris McCarthy Trail

- Original concept was to re-grade trail to provide accessibility.
- We undertook further surveys which were more accurate. Regarding the trail could not be achieved without significant impact.
- Recommendation to not re-grade trail.

Central Segment: Guild Access Road

- Original concept was to re-grade trail to provide accessibility.
- Further analysis showed re-grading the road was not possible without significant impact on the natural environment – even at 7.5% grade.
- Recommendation is to not re-grade trail, and to explore other mitigation options (e.g. level rest areas and trail resurfacing) during detailed design.

4 | Next Steps

Project Timelines

Timelines	Deliverable
June 28, 2017	Public Information Centre
Summer 2017	TRCA Authority Board
Summer 2017	Draft EA Submission
Fall 2017	City of Toronto Executive Committee
Fall 2017	City of Toronto Council
November 2017	Final EA Submission
2018	Anticipated EA Decision
2018-2019	Detailed Design (earliest start)

Questions?

SCARBOROUGH
WATERFRONT PROJECT
Environmental Assessment

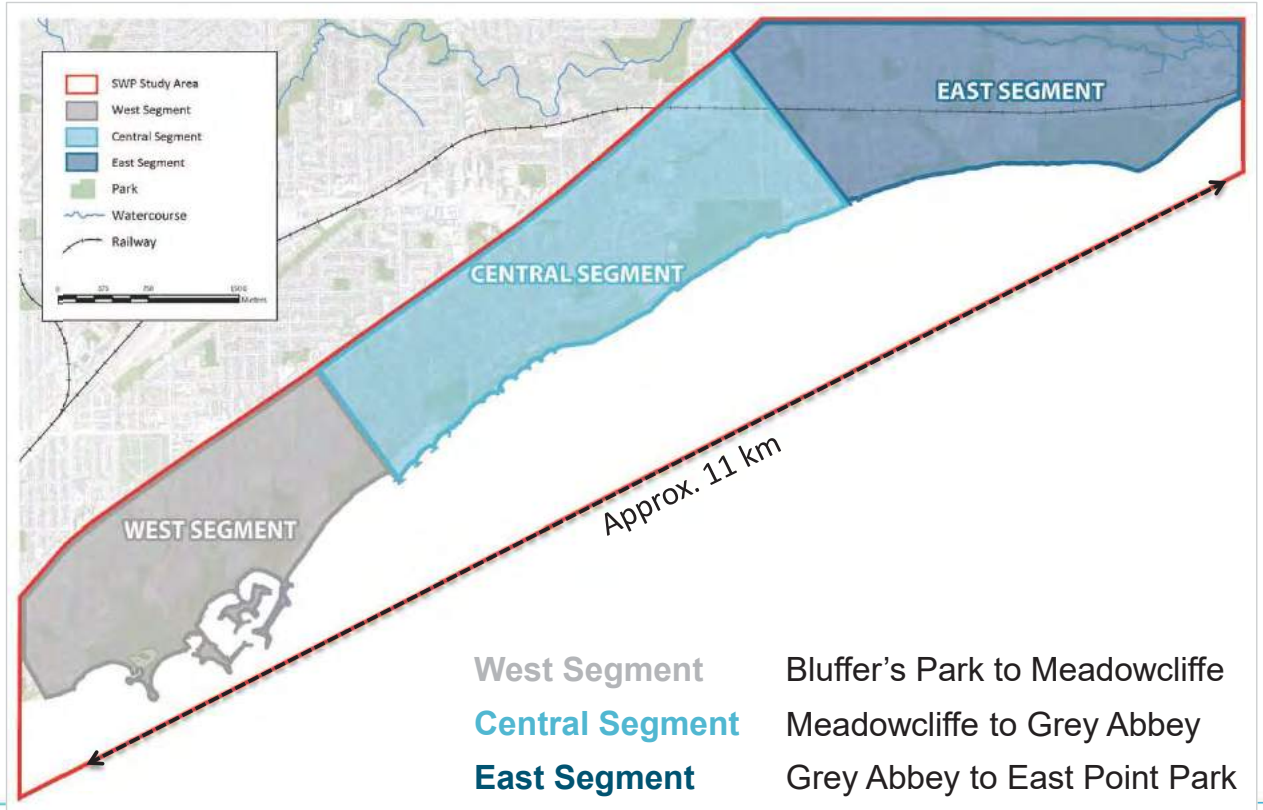
Project Update for Fisheries and Oceans Canada

July 11, 2016

TORONTO

Toronto and Region Conservation for The Living City

Study Area



West Segment	Bluffer's Park to Meadowcliffe
Central Segment	Meadowcliffe to Grey Abbey
East Segment	Grey Abbey to East Point Park

Project Vision & Objectives

VISION

Create a system of greenspaces along the Lake Ontario shoreline which respect and protect the significant natural and cultural features of the Bluffs, enhance the terrestrial and aquatic habitat, and provide a safe and enjoyable waterfront experience.

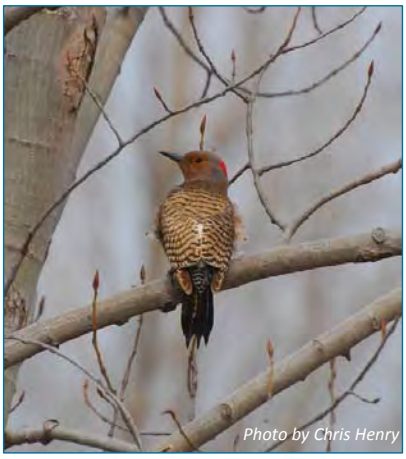


Photo by Chris Henry

OBJECTIVES

1. Protect and enhance terrestrial and aquatic features and linkages (**natural environment**)
2. Manage public safety and property **risk**
3. Provide an enjoyable waterfront **experience**
4. Consistency and **coordination** with other initiatives
5. Achieve value for **cost**

Environmental Assessment Process

✓ **Step 1:** Assess existing conditions

✓ **Step 2:** Confirm problems and opportunities

✓ **Step 3:** Develop Segment Alternatives and draft Evaluation Criteria

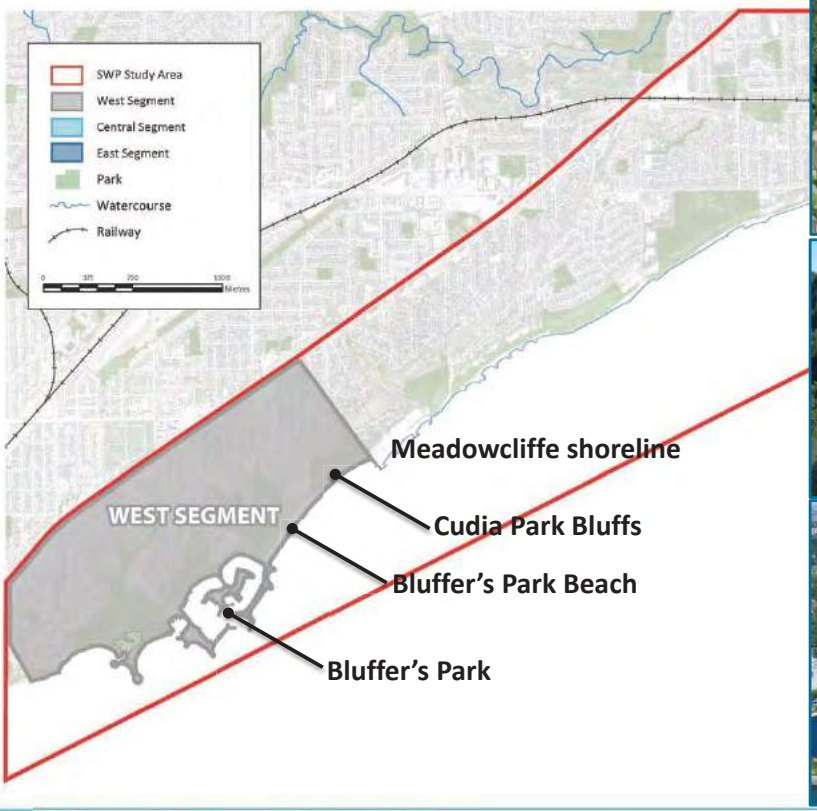
Step 4: Select Preferred Segment Alternatives

WE ARE HERE

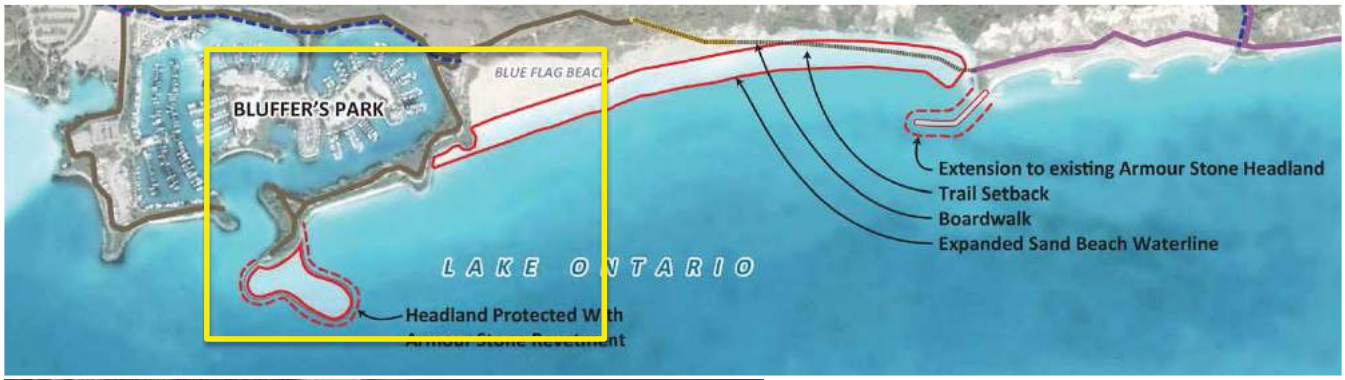
Step 5: Identify & Refine Overall Preferred Alternative

Step 6: Conduct Detailed Effects Assessment
Develop mitigation, monitoring and adaptive management strategies
Develop construction plan & phasing strategy
Develop cost estimate & funding strategy

West Segment



West Preliminary Preferred: Expanded Beach (Wide)



- Expansion to eastern channel entrance hardpoint will significantly reduce sedimentation in the marina.
- Existing sand beach will expand around the eastern-most hardpoint.

West Preliminary Preferred: Expanded Beach (Wide)

- 7 Federally-owned hardpoints.
- 2011 assessment identified 3 hardpoints requiring reconstruction (purple boxes).

Comments?

SCARBOROUGH WATERFRONT PROJECT - ENVIRONMENTAL ASSESSMENT
CITY OF TORONTO | TORONTO AND REGION CONSERVATION

SCARBOROUGH
WATERFRONT PROJECT
Environmental Assessment

Project Update for GO Transit & Metrolinx

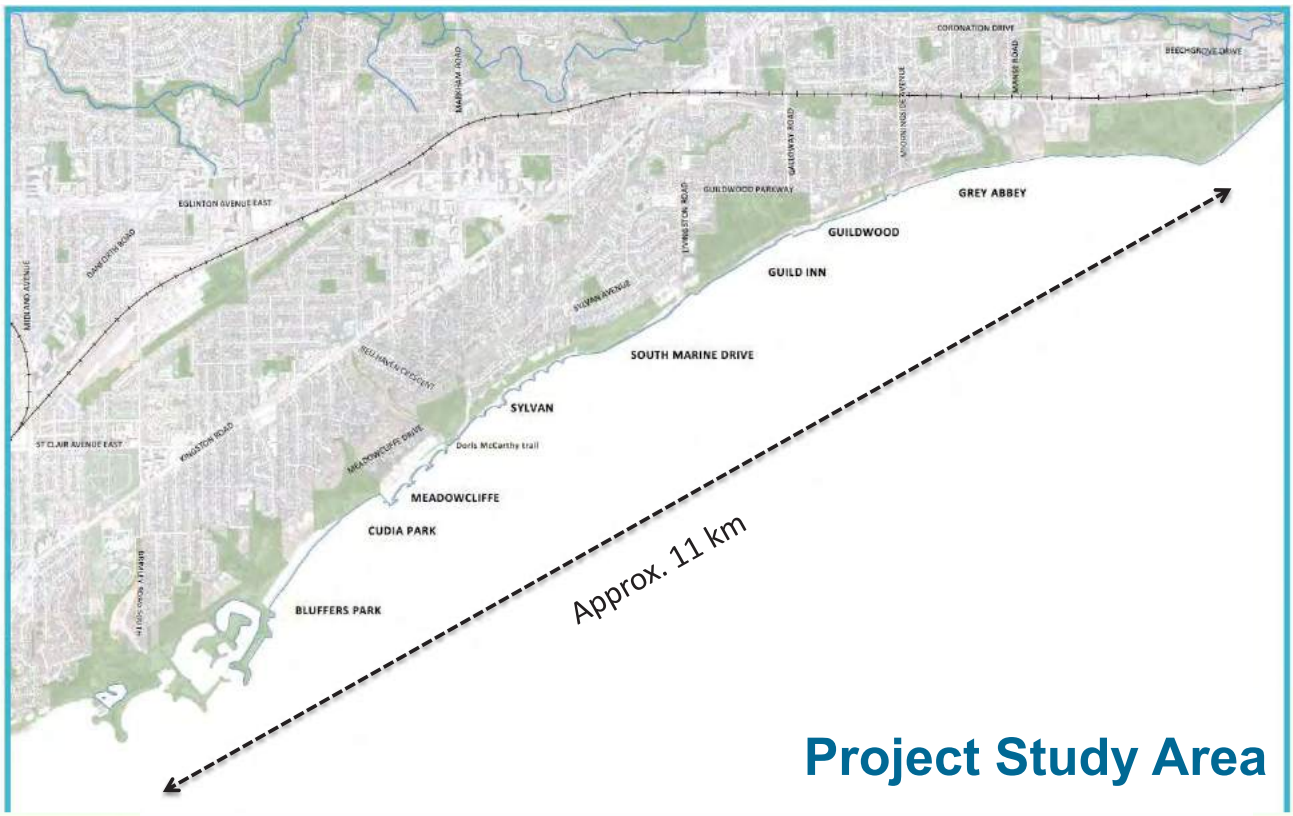
November 25, 2016

Meeting Overview

1. Project Overview
2. About the Study Area
3. Public Input
4. Summary of the EA Process
5. Preferred Alternatives by Shoreline Segment
6. Overall Preferred Alternative
7. Next Steps
8. Questions

Project Overview

Project Overview

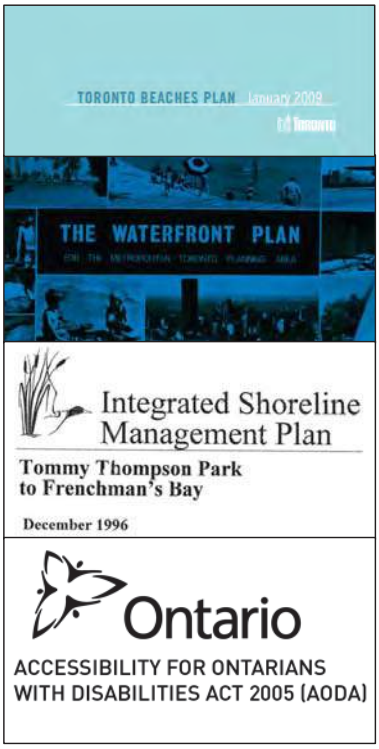


Project Study Area

SCARBOROUGH WATERFRONT PROJECT - ENVIRONMENTAL ASSESSMENT
CITY OF TORONTO | TORONTO AND REGION CONSERVATION

Project Overview

- **Mandate for the Scarborough Waterfront Project**
  - TRCA was designated by the Province as lead implementing agency for the Etobicoke to Ajax shoreline.
  - The Project supports the TRCA's Living City Policies and City of Toronto Official Plan.
  - The Project builds upon a series of plans to manage the Scarborough Waterfront including:
    - Waterfront Plan for the Metropolitan Toronto Planning Area (1967)
    - Integrated Shoreline Management Plan (1996)
    - Accessibility for Ontarians with Disabilities Act (2005)
    - Toronto Beaches Plan (2009)
    - Bikeway Trails Implementation Plan (2012)
    - City of Toronto Council Resolution PW31.14 (2014)



Project Overview

VISION

Create a system of greenspaces along the Lake Ontario shoreline which respect and protect the significant natural and cultural features of the Bluffs, enhance the terrestrial and aquatic habitat, and provide a safe and enjoyable waterfront experience.

OBJECTIVES

1. Protect and enhance terrestrial and aquatic features and linkages (**natural environment**)
2. Manage public safety and property **risk**
3. Provide enjoyable waterfront **experiences**
4. Consistency and **coordination** with other initiatives
5. Achieve value for **cost**

Project Overview

- **Detailed data is being collected and used to inform decisions**
  - Marine Archaeological Assessment
  - Terrestrial Archaeological Assessment
  - Fish Sampling Data
  - Terrestrial Natural Environment Data
  - Species at Risk (SAR) Mapping
  - Geotechnical Surveys
  - Coastal Engineering Data
  - Risk mapping
  - Traffic Study

ROM Researcher setting up a recorder to capture bat calls

Aquatic Sampling

About the Study Area

About the Study Area

- **Human activities have changed the nature of the Bluffs**
  - Activities including stonehooking, urbanization and shoreline protection have contributed to the current state of the Bluffs.

Scarborough Bluffs - 1950

Bluffer's Park Marina
(Resulted in the formation of Bluffer's Beach)

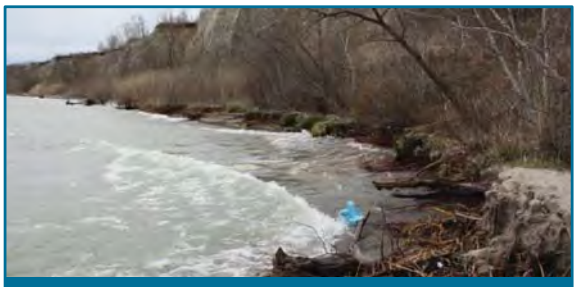
Former rocky shoreline along Bluffs - c.1921

About the Study Area

- **Stonehooking changed the nature of the Bluffs**
  - In building the City of Toronto, approximately one million cubic metres of rocky materials were removed from the Lake Ontario shoreline between 1850 and 1910.
  - In doing so, valuable aquatic habitat was lost and erosion of the Bluffs was accelerated.

Stonehooking Schooner

Natural Rocky Shoreline
(Formerly present along Scarborough Bluffs)



Current Shoreline along Bluffs
(Natural rocky substrate now absent)

About the Study Area

- **Development changed the nature of the Bluffs**
  - We rapidly created residential communities right up to the edge of the Bluffs.
  - Erosion accelerated at the base of the Bluffs.
  - Shoreline protection was required at the base of the Bluffs to protect infrastructure at the top of the Bluffs.

Rural Scarborough Bluffs in 1947

Shoreline Protection

Bluffs following Urbanization in 1962

About the Study Area

- **The City Context**
  - Among millions of people, protecting nature in cities poses specific challenges.
  - In cities nature needs to be effectively managed or it will decline.
  - Management of greenspaces can protect nature and provide opportunities for exceptional experiences for everyone.

Providing Access

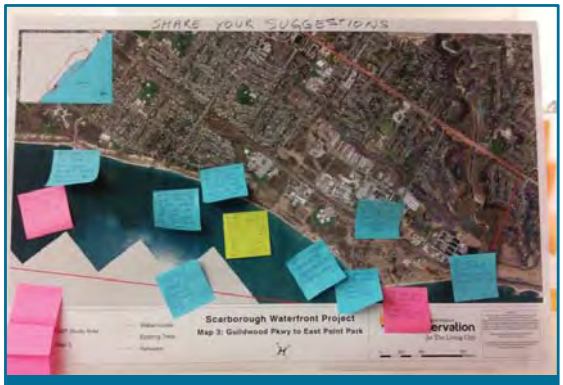
Protecting Nature

SCARBOROUGH WATERFRONT PROJECT - ENVIRONMENTAL ASSESSMENT
CITY OF TORONTO | TORONTO AND REGION CONSERVATION

Public Input

Public Input

- **Public feedback is being used to inform decisions**
  - Public Input has been a key element of the Project from the start.
  - Public Input was a key element in the development of the Project's Objectives.
  - These Objectives have been used to rigorously evaluate all Alternatives.
  - The Project Team will continue to seek comments at all remaining stages of the Project.



Public Input helps shape the Project

Public Input

Public Information Centres

Public Shoreline Tours

Direct Community Engagement

Public Feedback

- Over 1,500 comments received following last Public Information Centre (PIC).
- Every comment was read and considered.
- Public Input is considered as part of the refinement of the Preferred Alternative.

Summary of the EA Process

Summary of the EA Process

- **Getting Started**

  Terms of Reference stage
  (July 2014 to December 2015)

  – Two Public Information Centres (PICs) where the public provided the feedback that shaped the Project Objectives.

  – Stakeholder Committee representing Local Residents, First Nations and Elected officials. The committee's composition represented the various stakeholders within the Study Area.

  – The Stakeholder Committee assisted with the review and development of public materials.

Public Information Centre (PIC) #1 for the Terms of Reference

Public Information Centre (PIC) #2 for the Terms of Reference

Summary of the EA Process

- **Determining the Best Alternative**

  Environmental Assessment stage
  (January 2016 to Present)

  – **January 28, 2016** – Public Information Centre to present the draft Alternatives by Shoreline Segment and draft Evaluation Criteria. Hundreds of comments received during and following meeting that helped determine which Alternatives moved forward.

  – **June 28, 2016** – Public Information Centre introduced the Preferred Segment Alternatives. Approximately 1,500 comments received following this PIC – These are being used to refine the Preferred Alternative for the Project.

Public Information Centre (PIC) #1 for the EA stage

Public Information Centre (PIC) #2 for EA

SCARBOROUGH WATERFRONT PROJECT - ENVIRONMENTAL ASSESSMENT
CITY OF TORONTO | TORONTO AND REGION CONSERVATION

Preferred Alternatives
(by Shoreline Segment)

West Preferred Alternative: Expanded Beach (Wide)

Existing Conditions

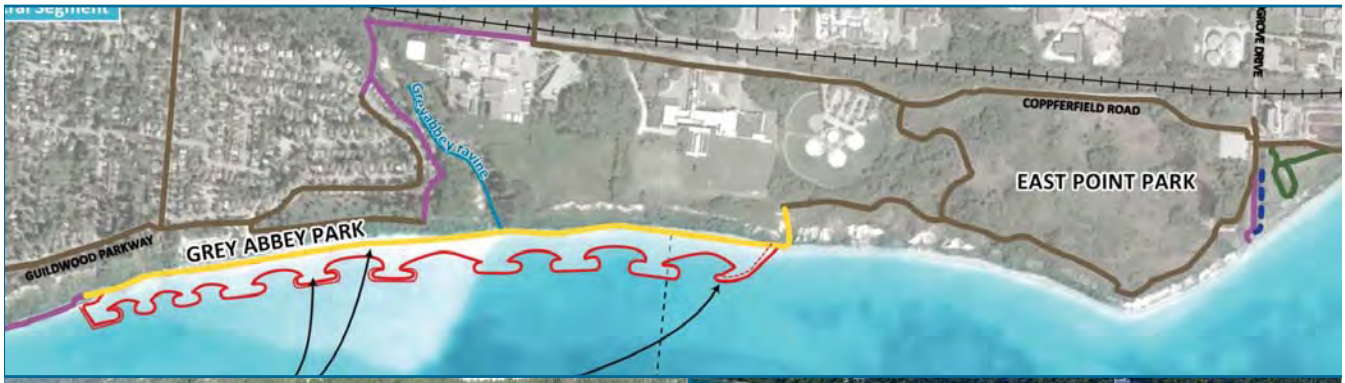
Preferred Alternative Conceptual Image

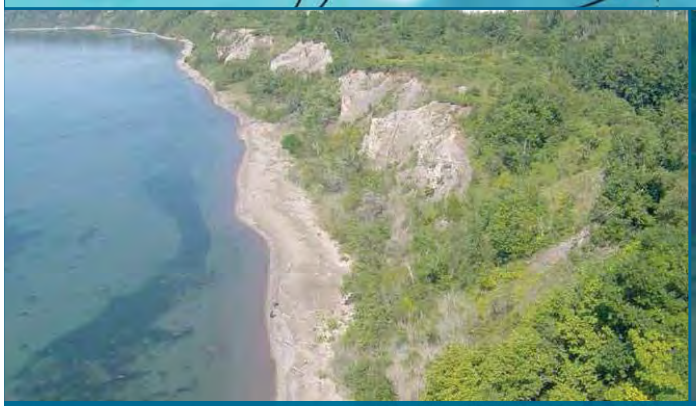
Central Preferred Alternative: Headland-Beach

Existing Conditions

Preferred Alternative Conceptual Image

East Preliminary Preferred: Headland – Beach to EPP





Existing Conditions

Preferred Alternative Conceptual Image

Project Objective: Public Risk

- **The Preferred Alternative does the most to improve safety**
  - Moves trail users away from residential areas where traffic is present.
  - Situates trail away from Copperfield Road and avoids train and truck traffic.
  - Situates trail away from Industrial properties.
  - Multi-use trail allows access for emergency service vehicles.

Positions trail safely away from Metrolinx tracks

Overall Preferred Alternative

Overall Preferred Alternative

- **Key Features**
  - Improved aquatic & terrestrial habitat.
  - Improved formal, safe, public access, to and along the waterfront for all abilities.
  - Provides a variety of waterfront experiences.
  - Increases length of publically owned shoreline by approximately 1.6 km.

Next Steps

Next Steps

- Refinements to the Overall Preferred Alternative continue.
- Public meeting in early 2017 to present the Refined Overall Preferred Alternative.
- Continued public outreach & engagement.

Public Engagement Will Continue

Questions?

SCARBOROUGH WATERFRONT PROJECT - ENVIRONMENTAL ASSESSMENT
CITY OF TORONTO | TORONTO AND REGION CONSERVATION

Thank You!

Scarborough Waterfront Project

Ministry of the Environment and Climate Change (MOECC)

August 18, 2016
10:00 AM – 12:00 PM
135 St Clair Ave W, 1st Floor, Toronto ON M4V 1P5

AGENDA

1. Project Overview & Update
2. Overall Preferred Alternative
3. Preferred Alternative Subsections
   - West Segment
   - Central Segment
   - East Segment
4. Questions
5. Next Steps & Timelines

SCARBOROUGH WATERFRONT PROJECT

Environmental Assessment

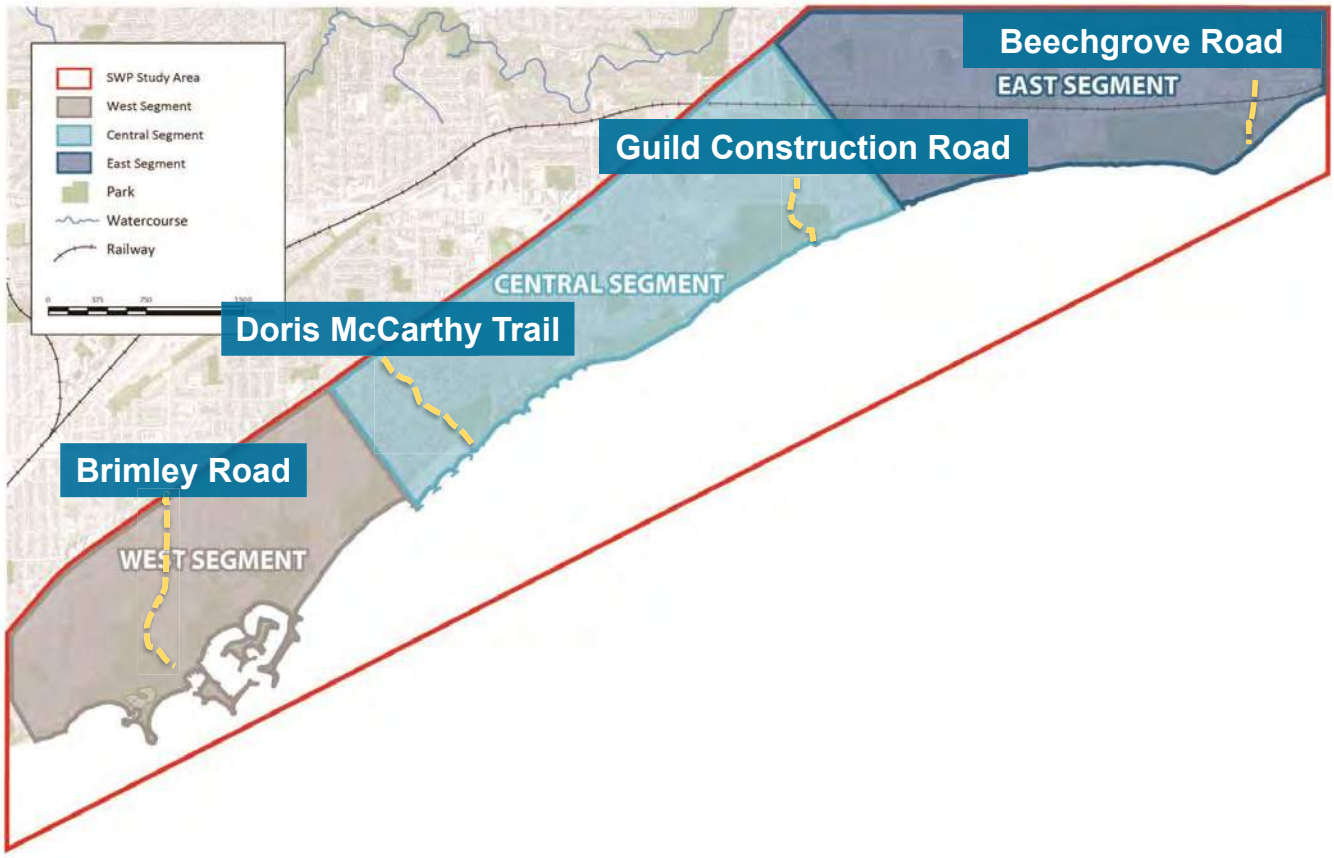
Project Update for Ministry of the Environment and Climate Change

August 18, 2016

Meeting Agenda

1. Project Overview & Update
2. Overall Preferred Alternative
3. Preferred Alternative Subsections
   - West Segment
   - Central Segment
   - East Segment
4. Questions
5. Next Steps & Timelines

Study Area & Access Points



Project Vision & Objectives

VISION

Create a system of greenspaces along the Lake Ontario shoreline which respect and protect the significant natural and cultural features of the Bluffs, enhance the terrestrial and aquatic habitat, and provide a safe and enjoyable waterfront experience.

Photo by Chris Henry

OBJECTIVES

1. Protect and enhance terrestrial and aquatic features and linkages (**natural environment**)
2. Manage public safety and property **risk**
3. Provide an enjoyable waterfront **experience**
4. Consistency and **coordination** with other initiatives
5. Achieve value for **cost**

Environmental Assessment Process

- **Step 1:** Assess existing conditions
- **Step 2:** Confirm problems and opportunities
- **Step 3:** Develop Segment Alternatives and draft Evaluation Criteria
- **Step 4:** Select Preferred Segment Alternatives
- **Step 5:** Identify & Refine Overall Preferred Alternative — WE ARE HERE
- **Step 6:** Conduct Detailed Effects Assessment
  Develop mitigation, monitoring and adaptive management strategies
  Develop construction plan & phasing strategy
  Develop cost estimate & funding strategy

Step 1: Assess Existing Conditions

Natural Environment

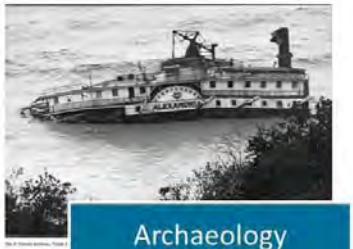
Physical Environment

Stormwater

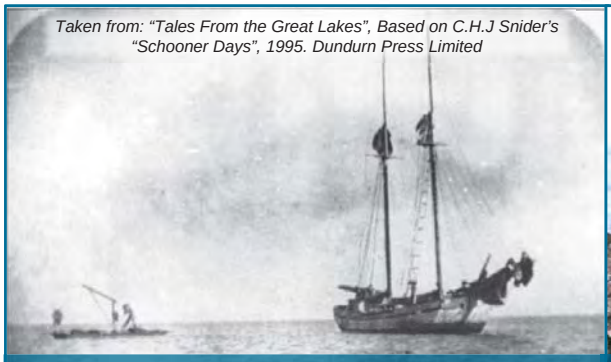
Hazard Areas

Feedback

Access


Archaeology

Step 2: Problems & Opportunities

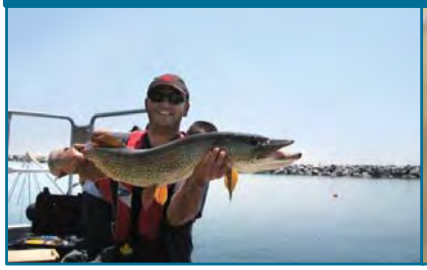


Taken from: "Tales From the Great Lakes", Based on C.H.J Snider's "Schooner Days", 1995. Dundurn Press Limited

Removal of material from the nearshore increased rates of erosion and resulted in loss of aquatic habitat

Risk to public safety / infrastructure & limited access to-and-along the shoreline

Opportunities to enhance habitat connectivity and quality



Step 3: Develop Alternatives

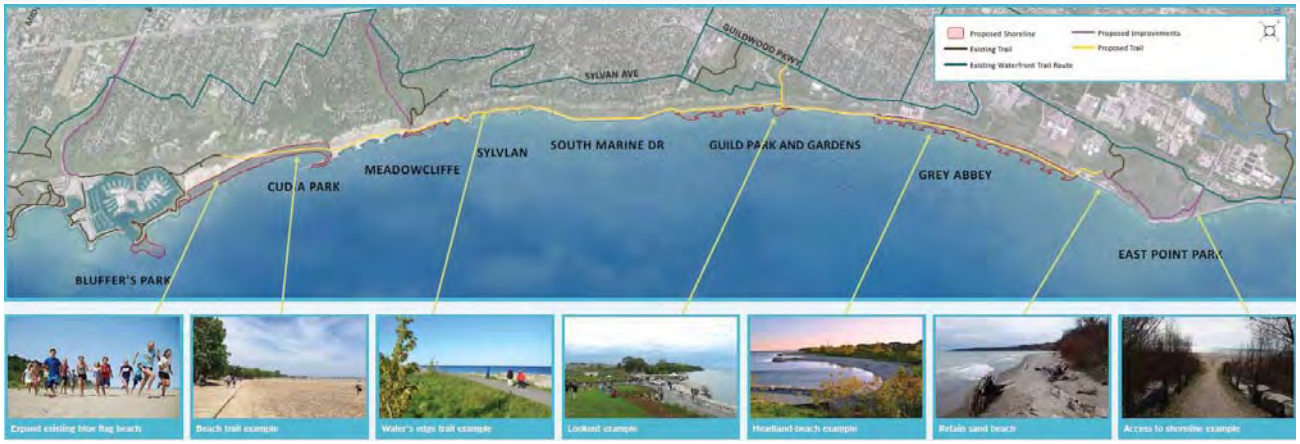
Alternatives developed considering:

- Project Vision & Objectives
- Existing Conditions
- Problems & Opportunities
- Input from the public, Technical Team, and Stakeholder Committee

A range of Alternatives were developed for each segment which reflected range of comments received from Stakeholders.

Alternatives & evaluation criteria were presented to the public in January 2016. Feedback received indicated that an appropriate range of Alternatives & evaluation criteria were considered.

Step 4: Overall Preferred Alternative



- **Key Features**
  - Safe public access to and along the Scarborough waterfront, including AODA access at key locations.
  - Improved connections to the waterfront for the broader communities.
  - Improved aquatic habitat & terrestrial habitat connectivity.
  - Contributes to improved water quality.
  - Long term erosion protection for public infrastructure.
  - Improve terrestrial habitat at East Point Park by formalizing one access route.
  - Provides safe public access to 1.6 km of previously inaccessible private / restricted shoreline in the east segment. Retains the full length of existing sand beach at East Point Park (about 2.5 km).

Community Consultation & Engagement

Stakeholder Committee Meetings & Public Information Centres

Additional Public Outreach Events

Direct Community Engagement

Public Feedback

- Over 1,500 comments received following last Public Information Centre (PIC). Strong support for West & Central segments.
- Some concerns regarding the area around East Point Park, but majority supportive of proposed Preferred Alternative.

East Segment

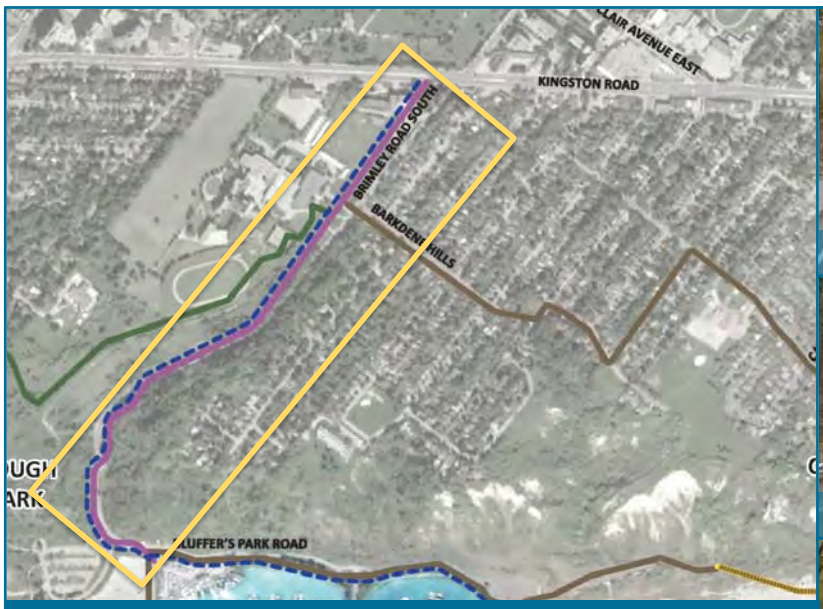
Following the PIC:

- Majority of comments were supportive.
- Evaluation results re-confirmed.
- Public messaging being developed.

West Segment
Preferred Alternative

West Preferred Alternative: Expanded Beach (Wide)

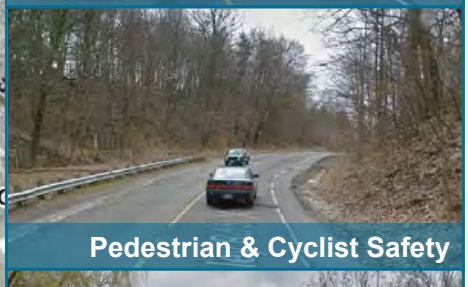
Brimley Road

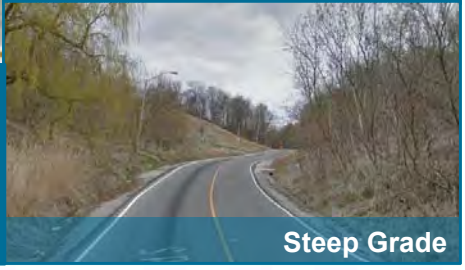


Project Goal

- Improve safety along stretch from Kingston Road to Bluffer's Park. Explore alternative transportation and parking opportunities.

Non-continuous, Divided Trail


Pedestrian & Cyclist Safety


Steep Grade

Bluffer's Park Western Headland

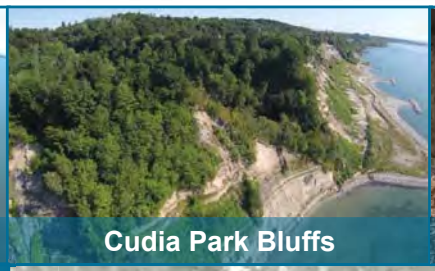
Project Goals

- Protect the shoreline directly behind the headland.
- Contribute to sediment accretion to expand the existing blue flag beach.
- Provide public access.
- Provide meaningful habitat.
- Reduce sedimentation in the marina.
- Provide maintenance and emergency services access.

Current Extent of Headland

Beach Expansion

Existing Beach at Bluffer's Park

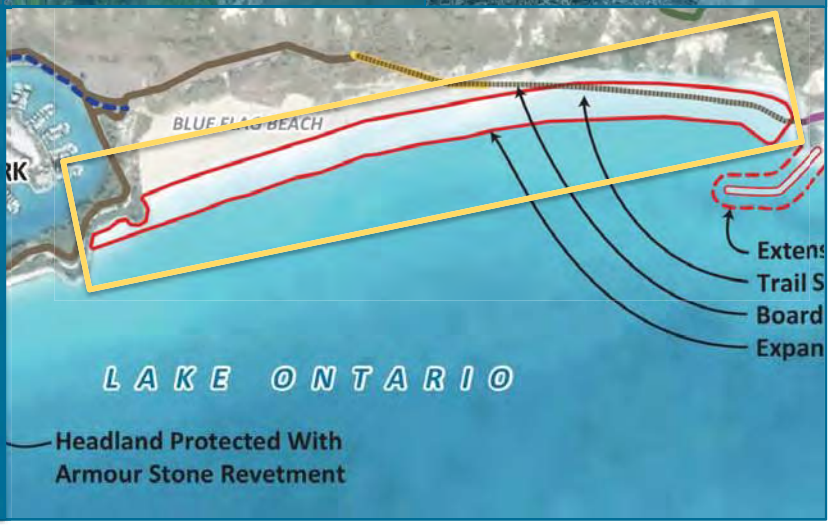


Cudia Park Bluffs

No Access to Meadowcliffe

Project Goals

- Provide safe public access to Meadowcliffe from Bluffer's Park.
- Accommodate maintenance vehicles and ambulance.
- Accommodate a fire truck, if feasible.



Central Segment
Preferred Alternative

Central Preferred Alternative: Headland-Beach

Sylvan & South Marine Drive

Project Goals

- Provide safe formal public access, which meets AODA.
- Improve terrestrial habitat connectivity.
- Improve aquatic habitat.

Construction Access Road

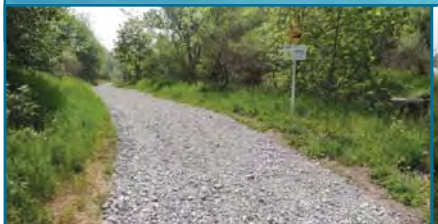
Sylvan Shoreline

South Marine Drive Shoreline

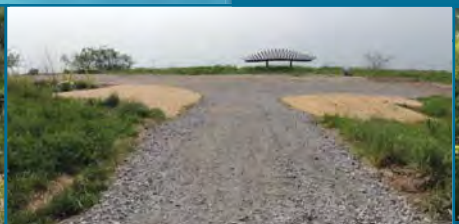
Doris McCarthy Trail

Project Goals

- Provide a local access point from the tablelands to the shoreline for pedestrians and cyclists.
- Achieve up to an 8% grade along the lower portion of the Doris McCarthy Trail (improved accessibility).
- Contribute to improved stormwater quality (outlet at base of road).



Interim Repairs Completed



Current Interface with Shoreline

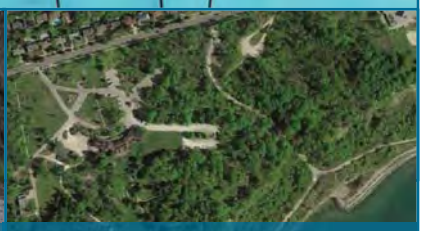
Steep Grade

Guild Access Road

Project Goals

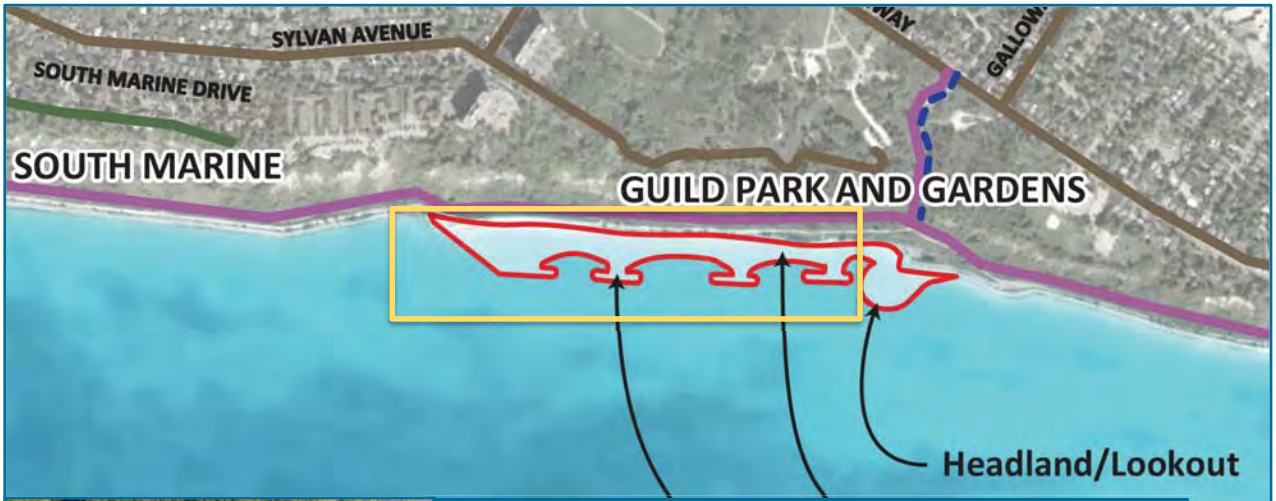
- To improve the grade of road so that it meets AODA (target 5% grade).
- To provide a multi-use gathering space at the base of the road.

Existing Construction Road



Aerial View

Guild Park and Gardens to Grey Abbey



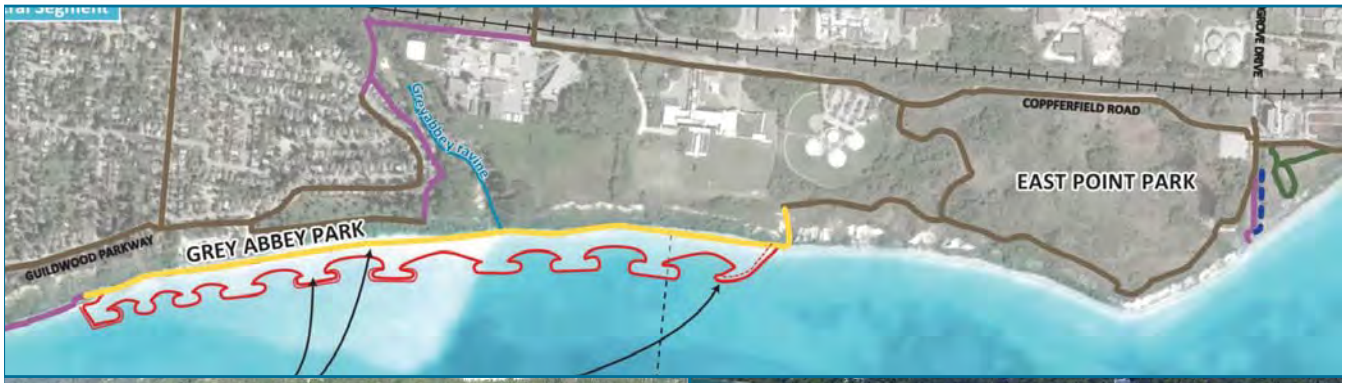
Guild Park & Gardens Shoreline

Project Goals

- Long term protection for the shoreline.
- Provide safe, formal public access which meets AODA.

East Segment
Preferred Alternative

East Preliminary Preferred: Headland – Beach to EPP



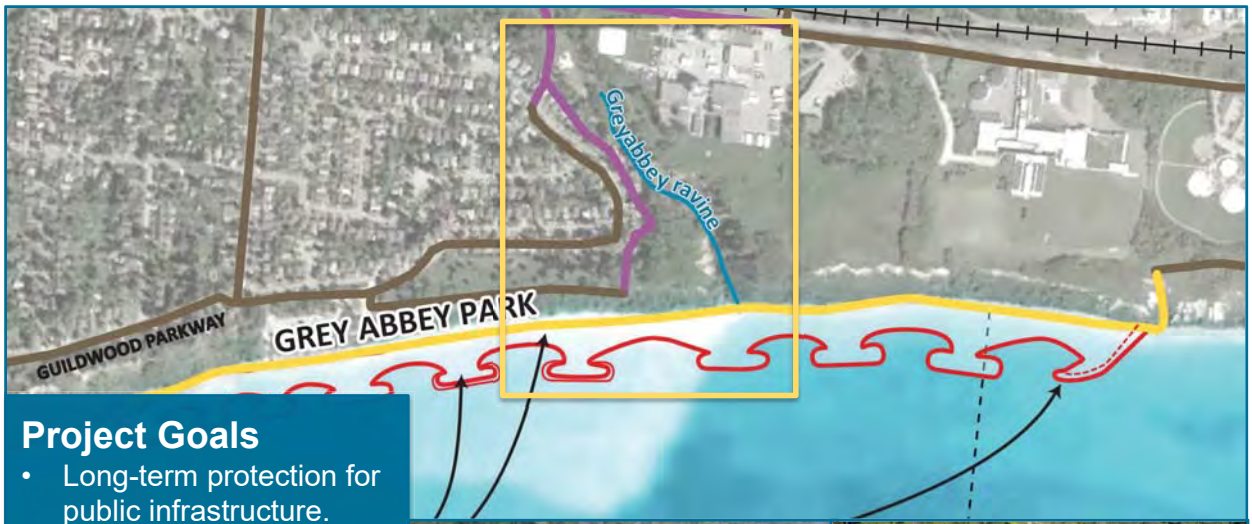
Shoreline

Project Goals

- Open 1.5km of private / restricted shoreline to safe, formal public access.
- Long-term protection for public infrastructure.
- Improve aquatic habitat and terrestrial habitat connectivity.

Existing Shoreline

Grey Abbey Ravine



Project Goals

- Long-term protection for public infrastructure.
- Address conveyance of flows.
- Contribute to improvements in water quality (4 stormwater outlets into ravine).

Rohm And Haas Plant

Grey Abbey Ravine

East Point Park Shoreline Access

Project Goals

- AODA access to the shoreline.
- Continuous bike connection.
- Potential access for some emergency services.
- Improve terrestrial habitat by formalizing one access point.

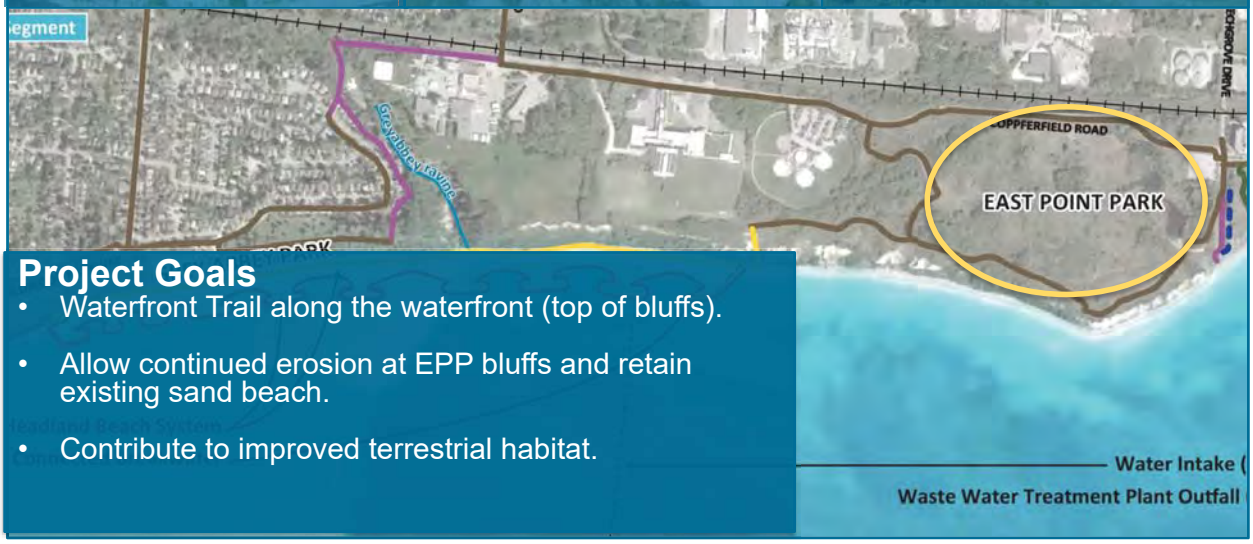
Current Informal Trail to Shoreline

East Point Park Tablelands

East Point Park Tablelands

Current Tableland Trail

Tableland Wetland



Project Goals

- Waterfront Trail along the waterfront (top of bluffs).
- Allow continued erosion at EPP bluffs and retain existing sand beach.
- Contribute to improved terrestrial habitat.

Beechgrove Drive

Highland Creek WWT Plant & Beechgrove Drive

Project Goals

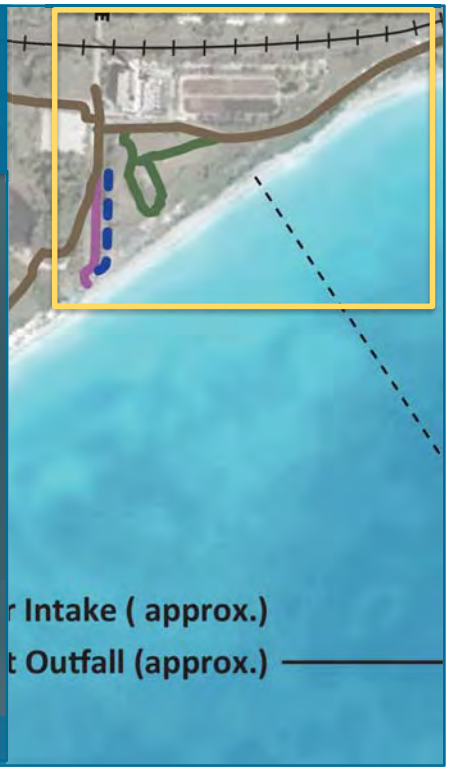
- Provide formalized access to shoreline via Beechgrove Road.
- Improve accessibility.
- Protect outfall at base of road.
- Provide lookout node.

Connection to Port Union

Project Goal

- Move connection to Port Union closer to the water's edge.

Current Connection



Next Steps & Timelines

EA Action	Approximate Completion
Refinements to Preferred Alternative	August 2016
Impact Assessment of the Preferred Alternative	September 2016
Present Final EA Results	November 2016
Draft Submission	February 2017
SC Draft EA Page-Turn Review	February 2017
Official Submission	April 2017

Thank You!

SCARBOROUGH WATERFRONT PROJECT - ENVIRONMENTAL ASSESSMENT
CITY OF TORONTO | TORONTO AND REGION CONSERVATION

SCARBOROUGH WATERFRONT PROJECT

Environmental Assessment

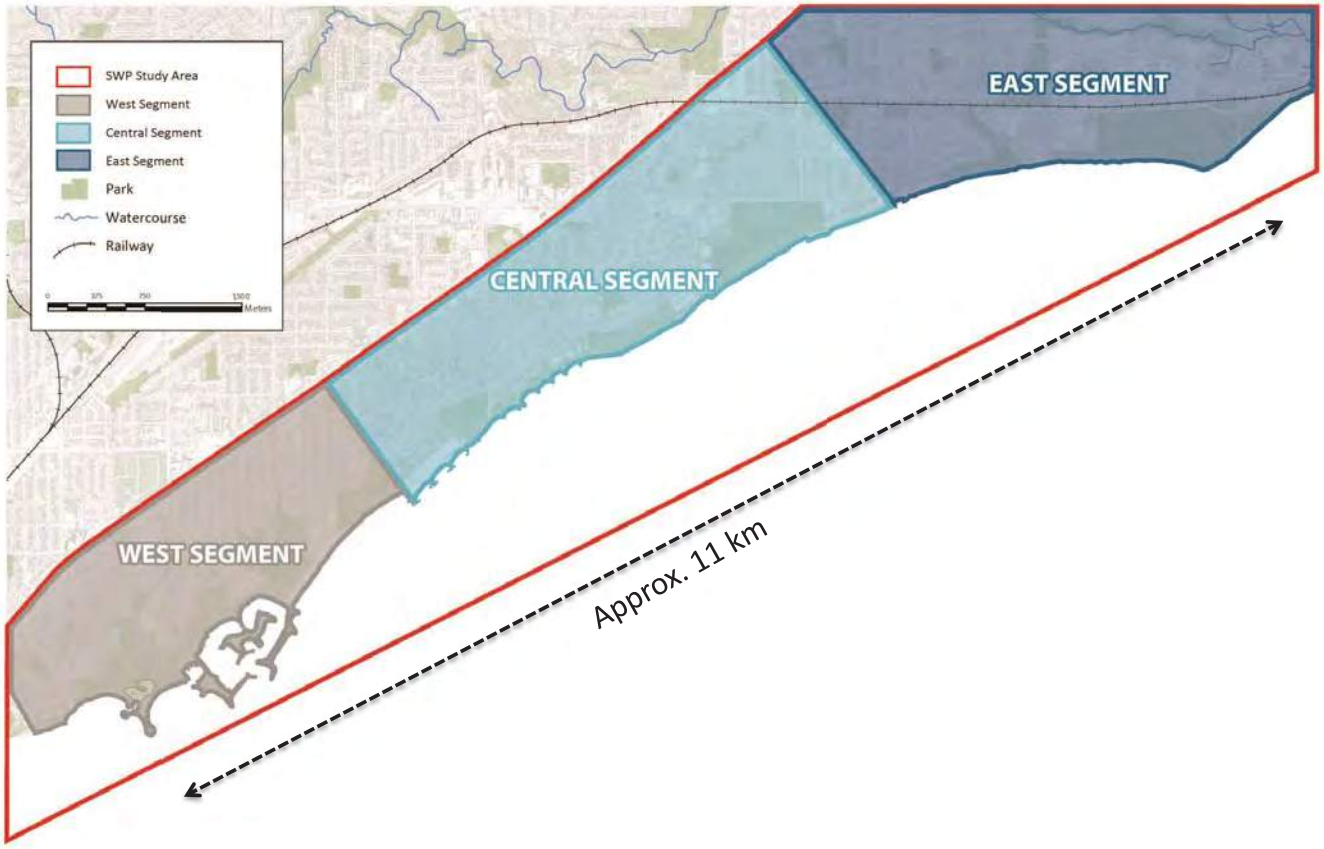
Project Update for Ministry of the Environment and Climate Change

June 15, 2017

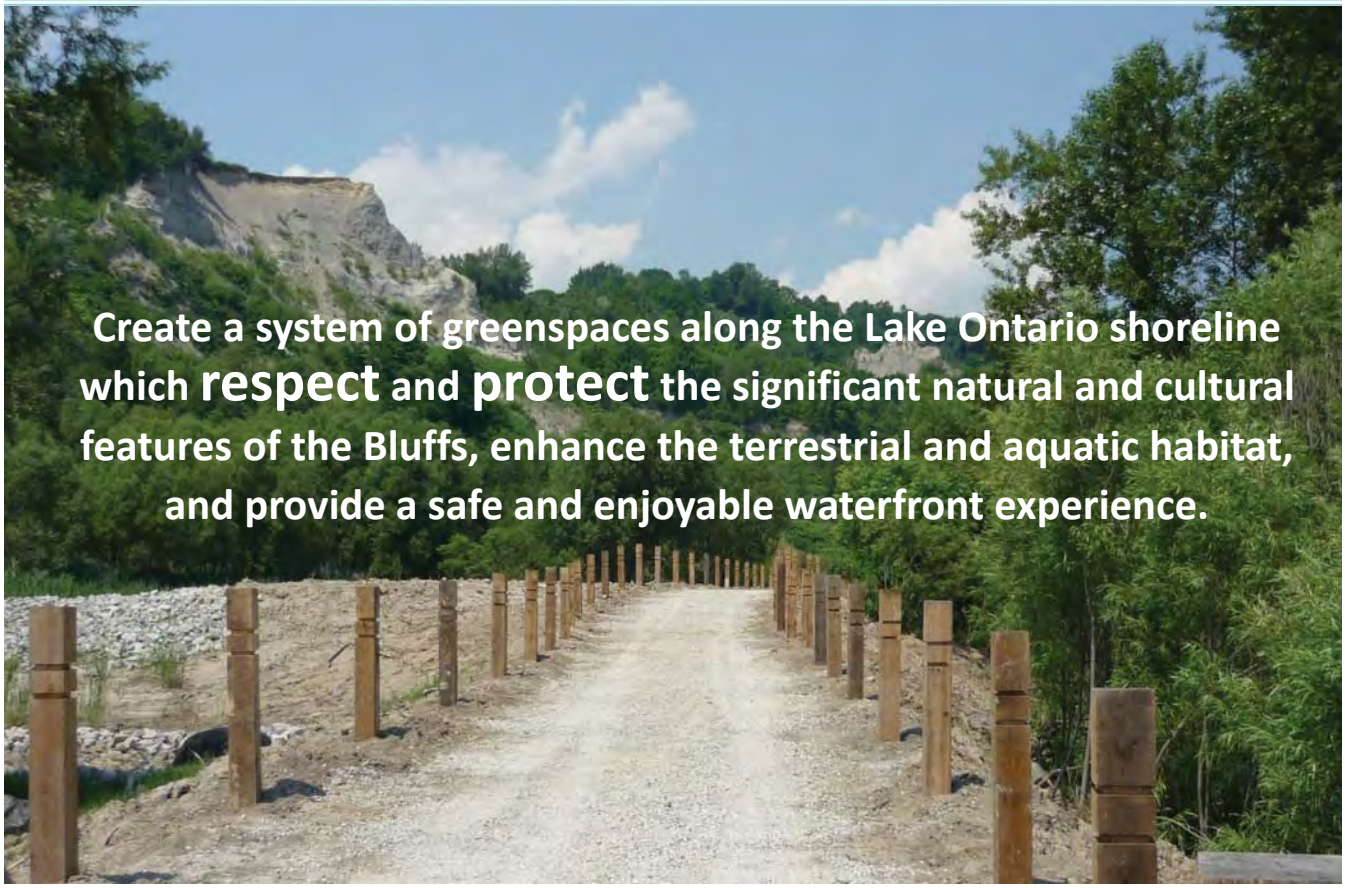
Outline

1. Reminder: Study Area, Vision & Objectives
2. Refined Preferred Alternative
    1. West Segment Shoreline and Brimley Road
    2. Central Segment Shoreline, and Doris McCarthy Trail & Guild Construction Access Road
    3. East Segment Shoreline & Tableland Trail
3. Public Comments
4. Next Steps

Project Study Area



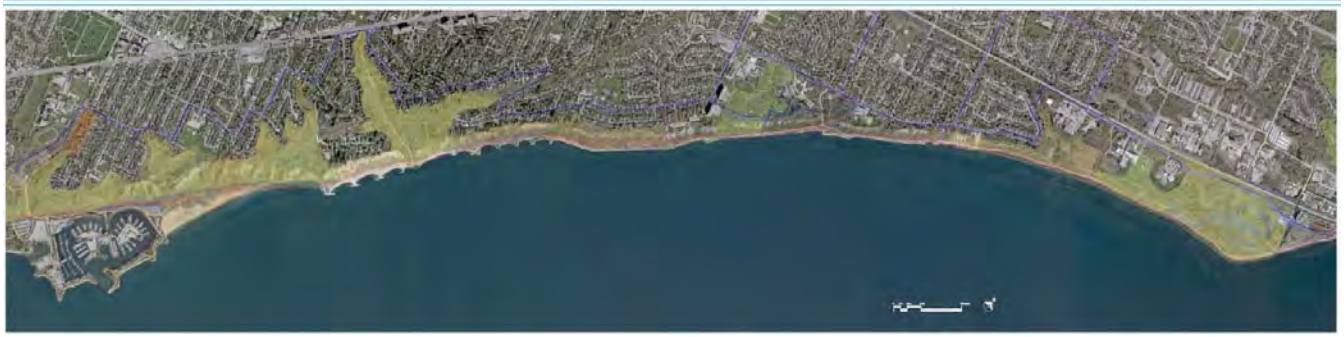
Project Vision



Project Objectives

1. Protect and enhance **natural environment** (terrestrial and aquatic features and linkages)
2. Manage public safety and property **risk**
3. Provide enjoyable waterfront **experiences**
4. Consistency and **coordination** with other initiatives
5. Achieve value for **cost**

Baseline Conditions

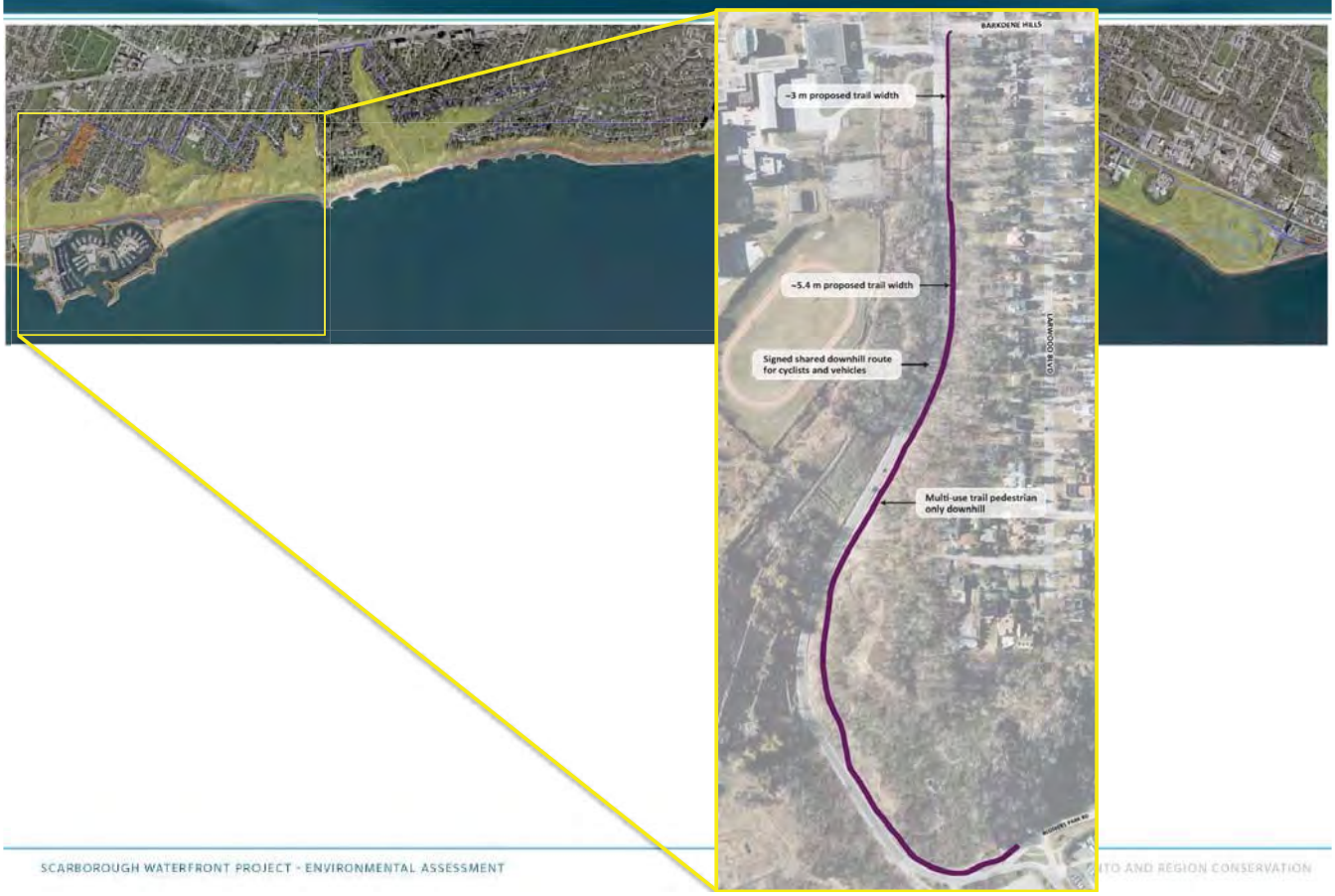


Refined Preferred Alternative

Baseline Conditions – West Segment

Refined Preferred – West Segment

Refined Preferred – Brimley Road

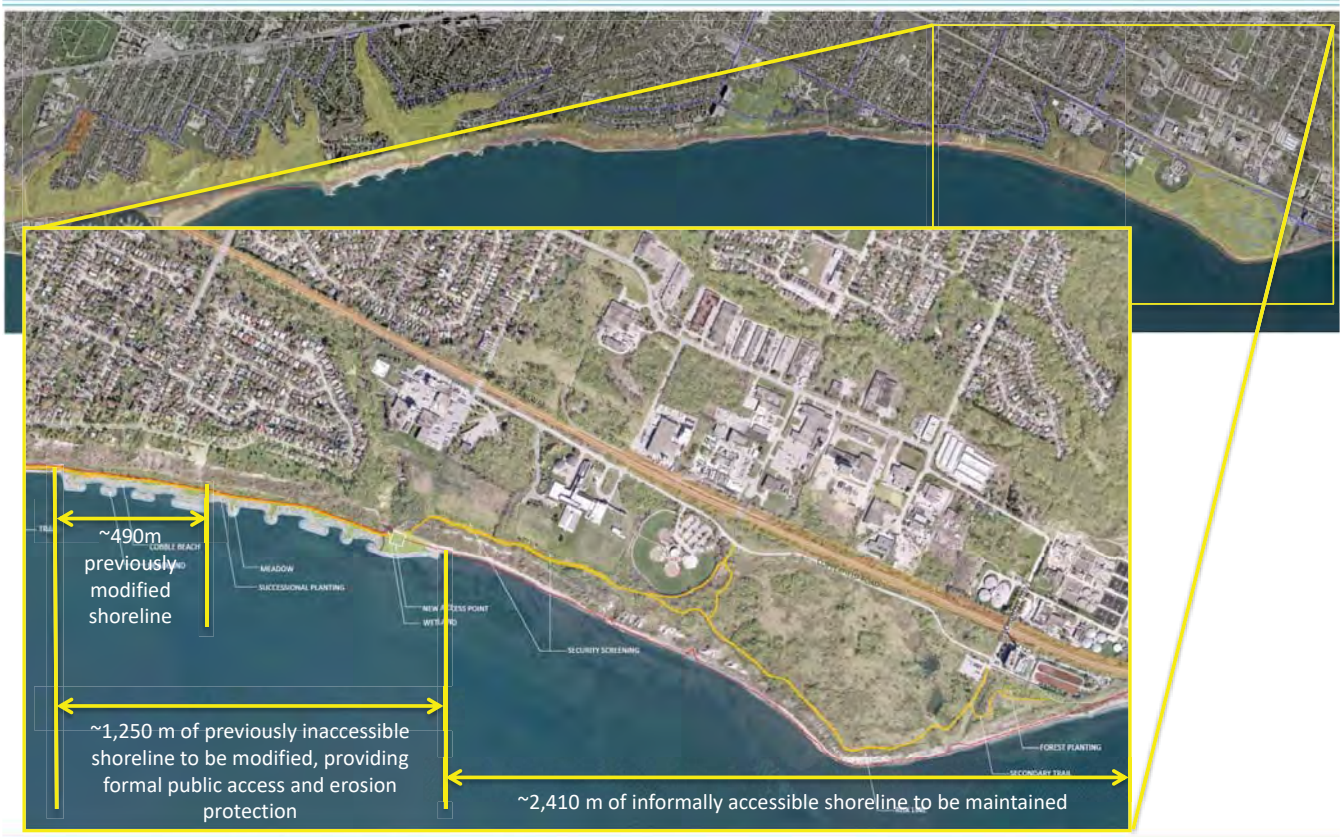


Baseline Conditions – Central Segment

Refined Preferred – Central Segment

Baseline Conditions – East Segment

Refined Preferred – East Segment



East Segment Trail: Tableland Transition

Example Public Comments

- Maintain the sand shoreline east of Grey Abbey Ravine in the East Segment
- The Metrolinx rail corridor expansion will not displace/constrain the existing Waterfront Trail (in East Segment); the trail does not need to be re-routed as part of the SWP
- Expansion of the Bluffer's Park headland in West Segment will remove one of three surfing spots along the Scarborough shoreline
- Recent landslide activity is occurring where shoreline protection works have been implemented, not along unprotected sections of shoreline

Project Timelines

Deliverable	Timelines
Stakeholder Committee meeting	June 14, 2017
Public Information Centre	June 28, 2017
TRCA Authority	July 28, 2017
Target Draft EA Submission	Mid August 2017
City of Toronto Executive Committee	September 2017
City of Toronto Council	October 2017
Target Formal EA Submission	November 2017

Questions?

Scarborough Waterfront Project
MNRF Meeting

March 1, 2016
1:00 - 3:00 p.m.
MNRF Offices, Aurora

AGENDA

1. **Welcome**

2. **Project Overview & Update**
    a. Status Update
    b. EA Process from ToR
    c. Existing Conditions, Alternatives & Evaluation Criteria
    d. Next Steps & Milestone Schedule

3. **Questions / Comments**

SCARBOROUGH WATERFRONT PROJECT

Environmental Assessment

Project Update for Ministry of Natural Resources and Forestry

March 1, 2016

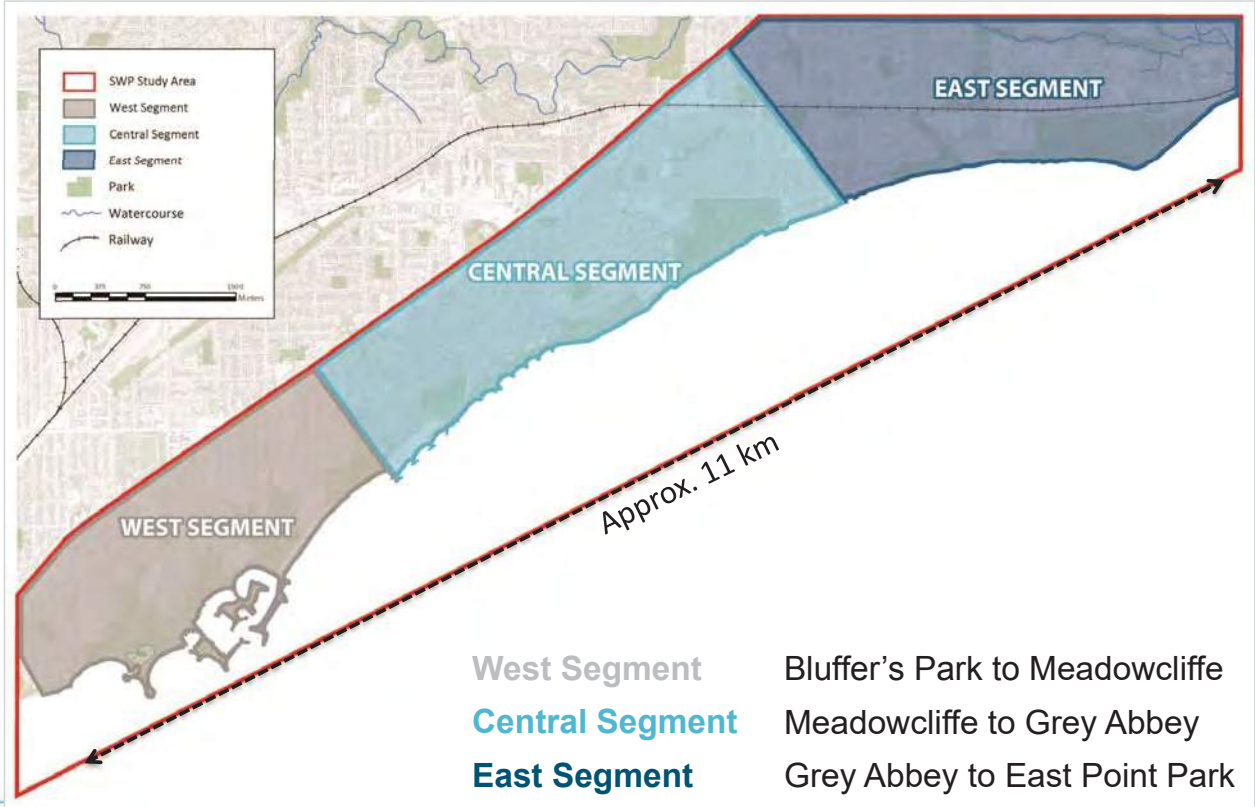
TORONTO

Toronto and Region Conservation for The Living City

Agenda

1. Welcome
2. Project Overview & Update
   a. Status Update
   b. EA Process from ToR
   c. Existing Conditions, Habitat Enhancement Components & Shoreline Segment Alternatives
   d. Evaluation Criteria
   d. Next Steps & Milestone Schedule
3. Questions / Comments

Study Area



West Segment	Bluffer's Park to Meadowcliffe
Central Segment	Meadowcliffe to Grey Abbey
East Segment	Grey Abbey to East Point Park

Project Vision & Objectives

VISION

Create a system of greenspaces along the Lake Ontario shoreline which respect and protect the significant natural and cultural features of the Bluffs, enhance the terrestrial and aquatic habitat, and provide a safe and enjoyable waterfront experience.

Photo by Chris Henry

OBJECTIVES

1. Protect and enhance terrestrial and aquatic features and linkage
2. Manage public safety and property risk
3. Provide an enjoyable waterfront experience
4. Consistency and coordination with other initiatives
5. Achieve value for cost

Process and Timeline

Phase 2: Environmental Assessment

✓ **Step 1:** Assess existing conditions

✓ **Step 2:** Confirm problems and opportunities

✓ **Step 3:** Develop Alternatives by segment and Evaluation Criteria

WE ARE HERE

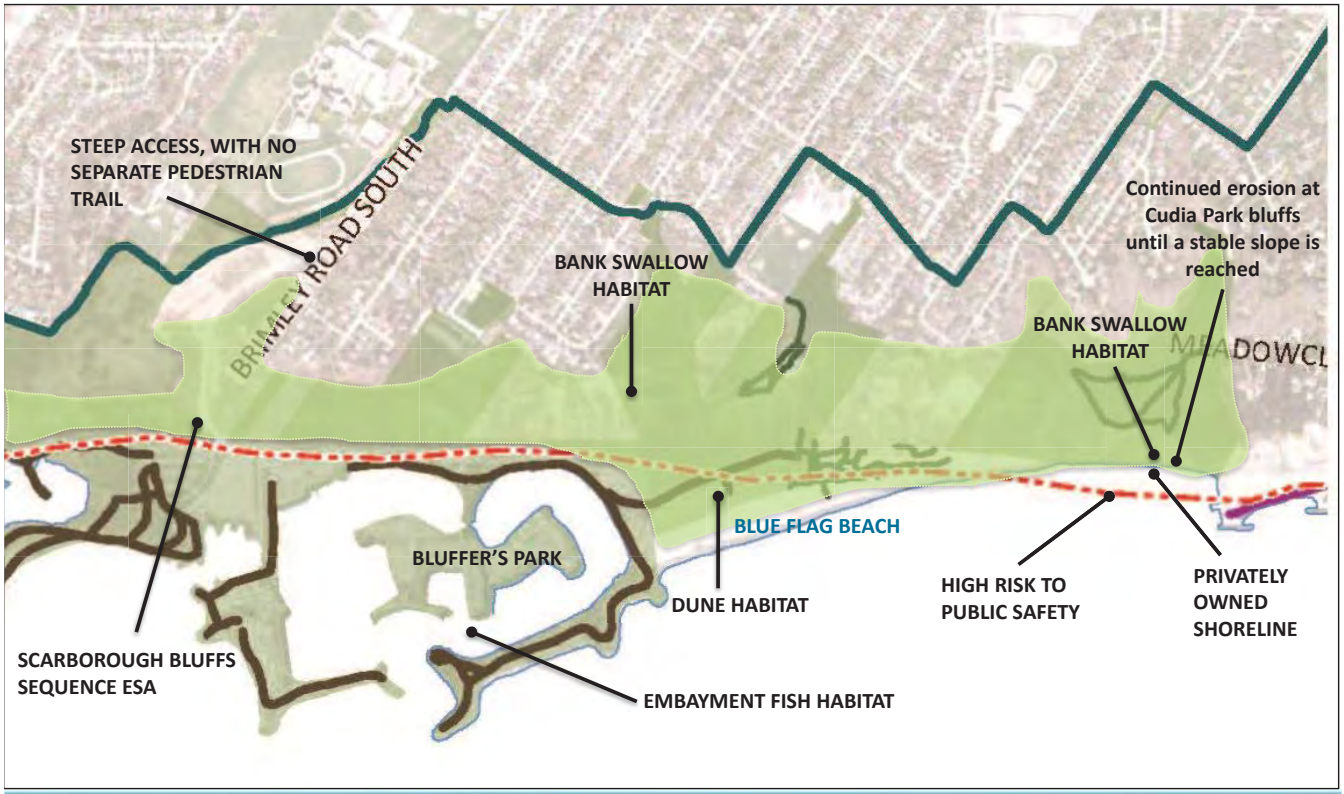
Step 4: Select Preferred Alternative for each segment

Step 5: Select Integrated Preferred Alterative

Step 6: Conduct a detailed effects assessment and develop mitigation, monitoring and adaptive management strategies.

West Segment

Existing Conditions



West Segment — Headland-Beach Alternative

Habitat Enhancement Opportunities:

- Backshore area creates opportunities for habitat restoration, potential wetland expansion, beach ridge and sand dunes.
- Increase length of shoreline.
- Increase shoreline diversity.
- Boardwalk will reduce the human impacts of shoreline activities, improving habitat along the eastern extent for fish and wildlife.
- Interior shoreline regeneration within the boat basin.

ALTERNATIVE 1 - HEADLAND – BEACH

Description:

- **115 m** wide headland-beach system, with a **650 m** long, **4 to 5 m** wide, boardwalk along cobble beach.
- Requires the most amount of lakefill.
- Erosion of Cudia Park Bluffs stopped.

Trail Usage:

- Pedestrian, cycling, and vehicle (maintenance and EMS only).

West Segment — Bridge Alternatives

Habitat Enhancement Opportunities:

- Sheltered bird nesting habitat (created by bridges).
- Increase diversity of fish habitat.
- Bridge will reduce the human impacts of shoreline activities, improving habitat along the eastern extent for fish and wildlife.
- Interior shoreline regeneration within the boat basin.

ALTERNATIVE 2A - BRIDGE (SHORT SPAN)

Description:

- **600 m** long, **3 m** wide bridge, with **30 m** spans.
- Erosion of Cudia Park Bluffs continues at a slower rte existing conditions.
- Requires the least amount of lakefill.

Trail Usage:

- Pedestrian and cycling.

ALTERNATIVE 2B - BRIDGE (LONG SPAN)

Description:

- **600 m** long, **3 m** wide bridge, with **100 m** spans.
- Erosion of Cudia Park Bluffs continues at a slower rate existing conditions.
- Requires the least amount of lakefill.

Trail Usage:

- Pedestrian and cycling.

West Segment — Island Bridge Alternatives

Habitat Enhancement Opportunities:

- Increase diversity of fish habitat, including sheltered lee side island habitat.
- Backshore habitat creation in the long-term (with short span option).
- Gradual beach expansion (with short span option).
- reduces the human impacts of shoreline activities, improving habitat along the eastern extent for fish and wildlife.
- Interior shoreline regeneration within the boat basin.

ALTERNATIVE 3A - ISLAND – BRIDGE (SHORT SPAN)

Description:

- Five to six, **50 - 100 m** long, islands linked by **30 m** long, **3 m** wide bridges, with **30 m** spans.
- Erosion of Cudia Park Bluffs continues at a slower rate existing conditions.

Trail Usage:

- Pedestrian and cycling.

ALTERNATIVE 3B - ISLAND – BRIDGE (LONG SPAN)

Description:

- Three, **120 m** long islands linked by **100 m** long, **3 m** wide bridges with **100 m** spans.
- Erosion of Cudia Park Bluffs continues at a slower rate existing conditions.

Trail Usage:

- Pedestrian and cycling.

West Segment — Causeway Alternative

Habitat Enhancement Opportunities:

- Sheltered embayment habitat for waterfowl.
- Increase diversity of fish habitat.
- Increase diversity of shoreline habitat.
- Interior shoreline regeneration within the boat basin.

ALTERNATIVE 4 - CAUSEWAY

Description:

- **650 m** long armourstone protected causeway, **4** to **5 m** wide, creating an embayment area at the base of the bluffs.
- Erosion of Cudia Park Bluffs stopped.
- Requires the most amount of lakefill.

Trail Usage:

- Pedestrians, cycling, and vehicle (maintenance and EMS).

West Segment Expanded Beach Alternatives

Habitat Enhancement Opportunities:

- Backshore area creates opportunities for habitat restoration, potential wetland expansion, beach ridge and sand dunes.
- Expanded headland creates opportunities for meadow creation and habitat for pollinators and migratory birds.
- Increase diversity of fish habitat, including interior shoreline regenration within the boat basin.
- Boardwalk reduces the human impacts of shoreline activities, improving habitat along the eastern extent for fish and wildlife.

ALTERNATIVE 5A - BEACH EXPANSION (NARROW)

Description:

- **30 m** expansion to sand beach, protected by **100** to **130 m** wide headlands.
- **600 m** long, **3 m** wide, bridge.
- Erosion of Cudia Park Bluffs stopped.
- Headland reduces sedimentation and need for dredging in the boat basin.

Trail Usage:

- Pedestrian and cycling.

ALTERNATIVE 5B - BEACH EXPANSION (WIDE)

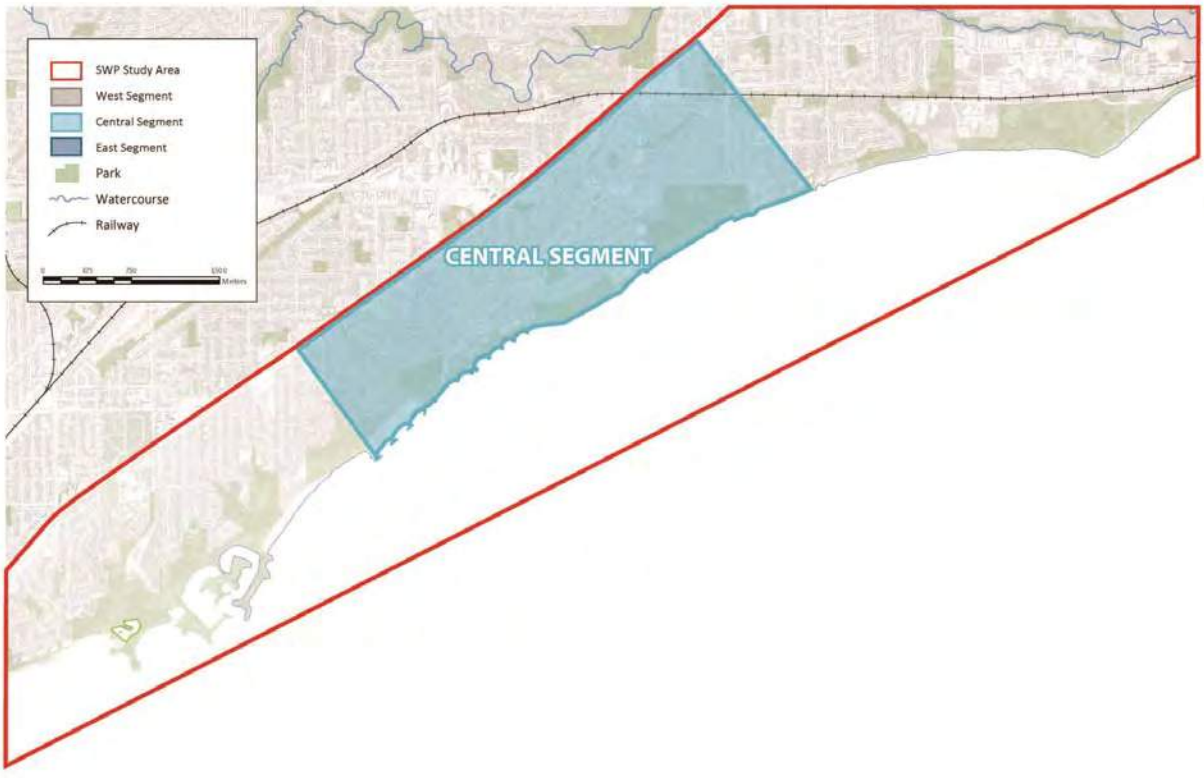
Description:

- **60 m** expansion to sand beach, protected by **200** to **230 m** wide headlands.
- **600 m** long, **3 m** wide, boardwalk.
- Erosion of Cudia Park Bluffs stopped.
- Headland reduces sedimentation and need for dredging in the boat basin.

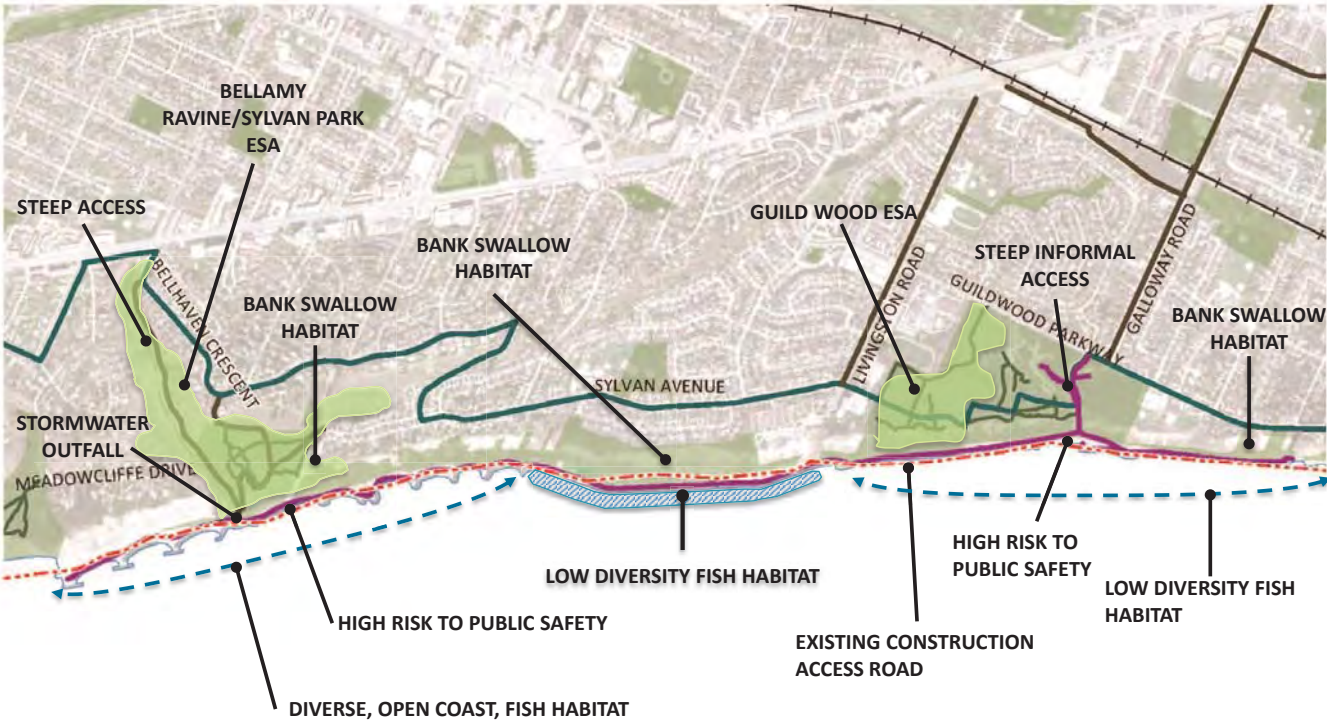
Trail Usage:

- Pedestrian and cycling.

Central Segment



Existing Conditions



Central Segment

Headland-Beach & Revetment Alternatives

Habitat Enhancement Opportunities:

- Improvements to the quality of the natural cover along the shoreline.
- Improvements connections along the shoreline for wildlife.
- Linear wetland feature along backshore at base of Doris McCarthy Trail to capture flows from outfall which currently discharge directly into Lake Ontario.
- Increased diversity of fish habitat along the South Marine Drive revetment.
- Amphibian habitat (along Doris McCarthy trail).

ALTERNATIVE 1 - HEADLAND – BEACH

Description:

- **Sylvan: 80 m** wide headlands with cobble beach.
- **Guild Inn: 100 m** wide headland-beach system, with **130 m** wide lookout.
- Similar to the headland-beach option approved in the 2005 Guild Inn Shoreline Restoration Project Class EA.

Trail Usage:

- Pedestrian, cycling, and vehicle (maintance and EMS only).
- Provides for AODA accessibility at Guild Inn (5% grade).
- 8% grade along Doris McCarthy Trail.

ALTERNATIVE 2 - REVETMENT

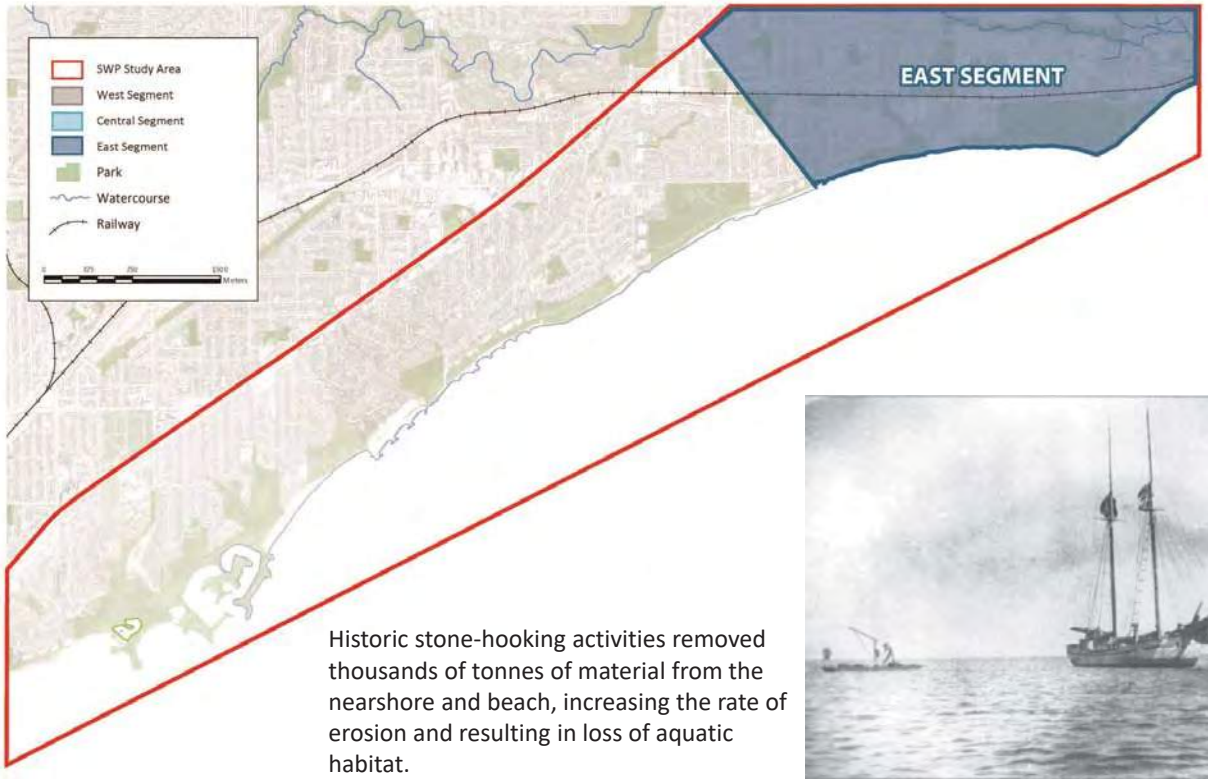
Description:

- **Sylvan**: **80 m** wide headlands with cobble beach.
- **Guild Inn**: **130 m** wide revetment, with **80** to **130 m** wide lookout.

Trail Usage:

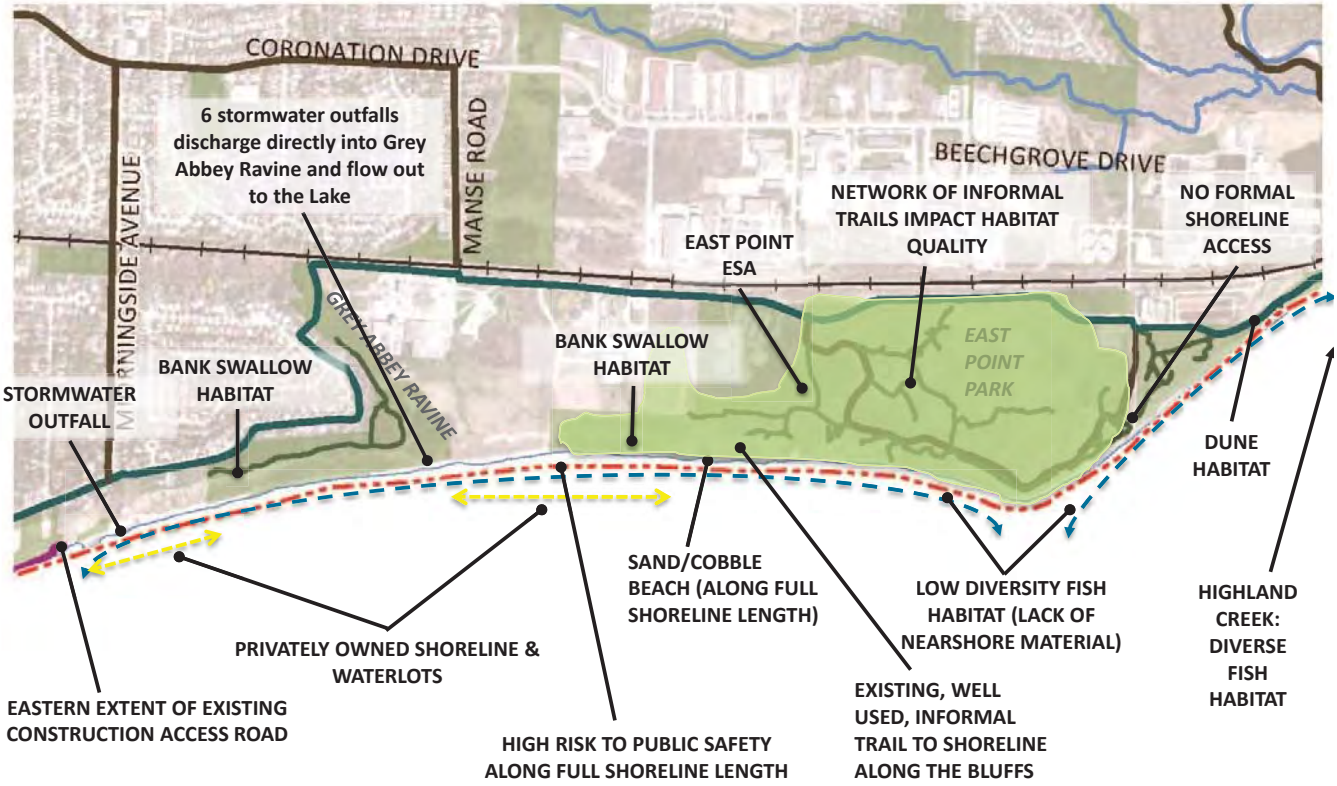
- Pedestrian, cycling, and vehicle (maintance and EMS only).
- Provides for AODA accessibility at Guild Inn (5% grade).
- 8% grade along Doris McCarthy Trail.

East Segment



Historic stone-hooking activities removed thousands of tonnes of material from the nearshore and beach, increasing the rate of erosion and resulting in loss of aquatic habitat.

Existing Conditions



East Segment Headland-Beach Alternatives

Habitat Enhancement Opportunities

- Linear wetland feature at Morningside outfall and Grey Abbey Ravine.
- Increased diversity of fish habitat by replacing material lost to stonehooking.
- Improved natural cover along the shoreline and at East Point Park.
- Decommissioning informal trails at East Point Park to improve habitat.

ALTERNATIVE 1A - HEADLANDS WITH TOP-OF-BLUFFS CONNECTION

Description

- **Grey Abbey: 60 m** wide headland-beach system.
- **East Point Park:** Existing sand beach with in-water shoals to provide nearshore aquatic habitat.

Trail Usage

- **Grey Abbey:** Pedestrian, cycling, and vehicle (maintenance and EMS only).
- **East Point Park:** Pedestrian and cycling along tablelands. Beach walk along base of bluffs.
- Moves privately-owned shoreline into public domain.

ALTERNATIVE 1B - HEADLANDS WITH BASE-OF-BLUFFS CONNECTION

Description

- **Grey Abbey: 60 m** wide headland-beach system.
- **East Point Park: 30 m** wide revetment along base of the bluffs.
- **East Point Park:** Bluff erosion stopped.

Trail Usage

- **Grey Abbey:** Pedestrian, cycling, and vehicle (maintenance and EMS only).
- **East Point Park:** Pedestrian, cycling, and vehicle (maintenance and EMS only) along base of bluffs.
- Moves privately-owned shoreline into public domain.

East Segment Bridge Alternatives

Habitat Enhancement Opportunities

- Linear wetland feature at Morningside outfall and Grey Abbey Ravine.
- Increase diversity of fish habitat by replacing material lost to stonehooking.
- Improved natural cover along the shoreline and tablelands at East Point Park.
- Decommissioning informal trails at East Point Park to improve habitat.

ALTERNATIVE 2A - BRIDGE WITH TOP-OF-BLUFFS CONNECTION

Description

- **Grey Abbey: 430 m** long, **3 m** wide bridge, with **30 m** spans, connected to a **60 m** wide headland beach system.
- **East Point Park:** Existing sand beach with in-water shoals provide nearshore fish habitat.

Trail Usage

- **Grey Abbey:** Pedestrian and cycling.
- **East Point Park:** Pedestrian and cycling along tablelands. Beach walk along base of bluffs.
- Moves privately-owned shoreline into public domain.

ALTERNATIVE 2B - BRIDGE WITH BASE-OF-BLUFFS CONNECTION

Description

- **Grey Abbey: 430 m** long, **3 m** wide bridge, with **30 m** spans, connected to a **60 m** wide headland beach system.
- **East Point Park:** 30 m wide revetment along base of the bluffs.
- **East Point Park:** Bluff erosion stopped.

Trail Usage

- **Grey Abbey:** Pedestrian and cycling.
- **East Point Park:** Pedestrian and cycling along base of bluffs.
- Moves privately-owned shoreline into public domain.

East Segment — Island-Bridge Alternatives

Habitat Enhancement Opportunities

- Linear wetland feature at Morningside outfall and Grey Abbey Ravine.
- Increase diversity of fish habitat by replacing material lost to stonehooking.
- Improved natural cover along the shoreline and tablelands at East Point Park.
- Decommissioning informal trails at East Point Park to improve habitat.

ALTERNATIVE 3A - ISLAND-BRIDGE WITH TOP-OF-BLUFFS CONNECTION

Description

- **Grey Abbey:** Islands linked by **60 m** long, **3 m** wide bridges, and connected to a **60 m** wide headland-beach system.
- **East Point Park:** Existing sand beach with in-water shoals to provide nearshore fish habitat.

Trail Usage

- **Grey Abbey:** Pedestrian and cycling
- **East Point Park:** Pedestrian and cycling along tablelands. Beach walk along base of bluffs.
- Moves privately-owned shoreline into public domain.

ALTERNATIVE 3B - ISLAND-BRIDGE WITH BASE-OF-BLUFFS CONNECTION

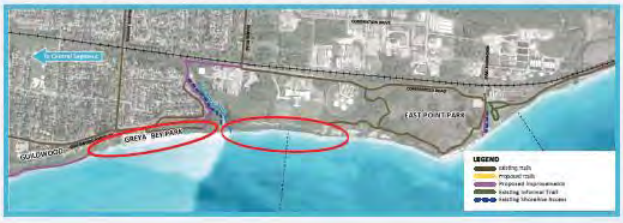
Description

- **Grey Abbey:** Islands linked by **60 m** long, **3 m** wide bridges, and connected to a **60 m** wide headland-beach system.
- **East Point Park: 30 m** wide revetment along base of the bluffs.
- **East Point Park:** Bluff erosion stopped.

Trail Usage

- **Grey Abbey:** Pedestrian and cycling.
- **East Point Park:** Pedestrian and cycling along base of bluffs.
- Moves privately-owned shoreline into public domain.

East Segment — Headland-Beach to EPP Alternatives



BOTH ALTERNATIVES:

Habitat Enhancement Opportunities

- Linear wetland feature at Morningside outfall and Grey Abbey Ravine.
- Increase diversity of fish habitat by replacing material lost to stonehooking.
- Improved natural cover along the shoreline and tablelands at East Point Park.
- Decommissioning informal trails at East Point Park to improve habitat.

Access Enhancements

- Along base of bluffs to western edge of East Point Park.
- Formalizes existing informal shoreline access at East Point Park, reducing the long-term impact on the bluffs.
- Moves privately-owned shoreline into public domain.

ALTERNATIVE 4A - HEADLAND-BEACH WITH REVETMENT TO EPP

Description

- **Grey Abbey:** Headland - beach system along base of bluffs.
- **Grey Abbey:** Protects municipal infrastructure at base of Morningside.
- **East Point Park:** Revetment along base of bluffs to south of the Ken Morrish softball complex
- **East Point Park**: Maintains existing sand/cobble beach.

ALTERNATIVE 4B - HEADLAND-BEACH TO EPP

Description

- **Grey Abbey:** Headland - beach system along base of bluffs.
- **East Point Park**: Headland - beach system continues to south of the Ken Morrish softball complex
- **East Point Park**: Maintains existing sand/cobble beach.

East Segment — Sheltered Harbour

Rationale

- Revisiting recommendation from ISMP for sheltered harbour, and stated public interest for a similar facility in the area.
- From the evaluation, if the Do Nothing better meets the Vision & Objectives, this option will not move forward.

Habitat Enhancement Opportunities:

- Moderate embayment habitat.
- Increase shoreline length and diversity.
- Requires a significant amount of lakefill.

ALTERNATIVE 4 - SHELTERED HARBOUR

Description:

- Development of a headland to facilitate a sheltered launching area (safe harbour) at base of Beechgrove Road for non-motorized watercraft (canoes/kayaks).
- Potential for vehicle access along Beechgrove Drive for launching purposes only.
- Parking continues to be available at existing parking lot at East Point Park.
- Dimensions (approximate):
  - Headland/boat launch: **300 m** long and **150 m** into Lake Ontario.

Next Steps

Winter 2016	Spring 2016	Summer 2016	Fall 2016
• Finalize Evaluation Criteria & Alternatives based on public feedback	• Present Preferred Alternative by Segment • Present Preferred Integrated Alternative	• Refine Preferred Integrated Alternative & undertake detailed effects assessment • Includes public amenities, trail dimensions, etc.	• Present EA Results • Submit Draft EA Document to MOECC
	• 1-2 Stakeholder Committee meetings • 1-2 Public Meetings		• 2 Stakeholder Committee meeting • 1 Public Meeting

SCARBOROUGH
WATERFRONT PROJECT
Environmental Assessment

Project Update for Ministry of Natural Resources and Forestry

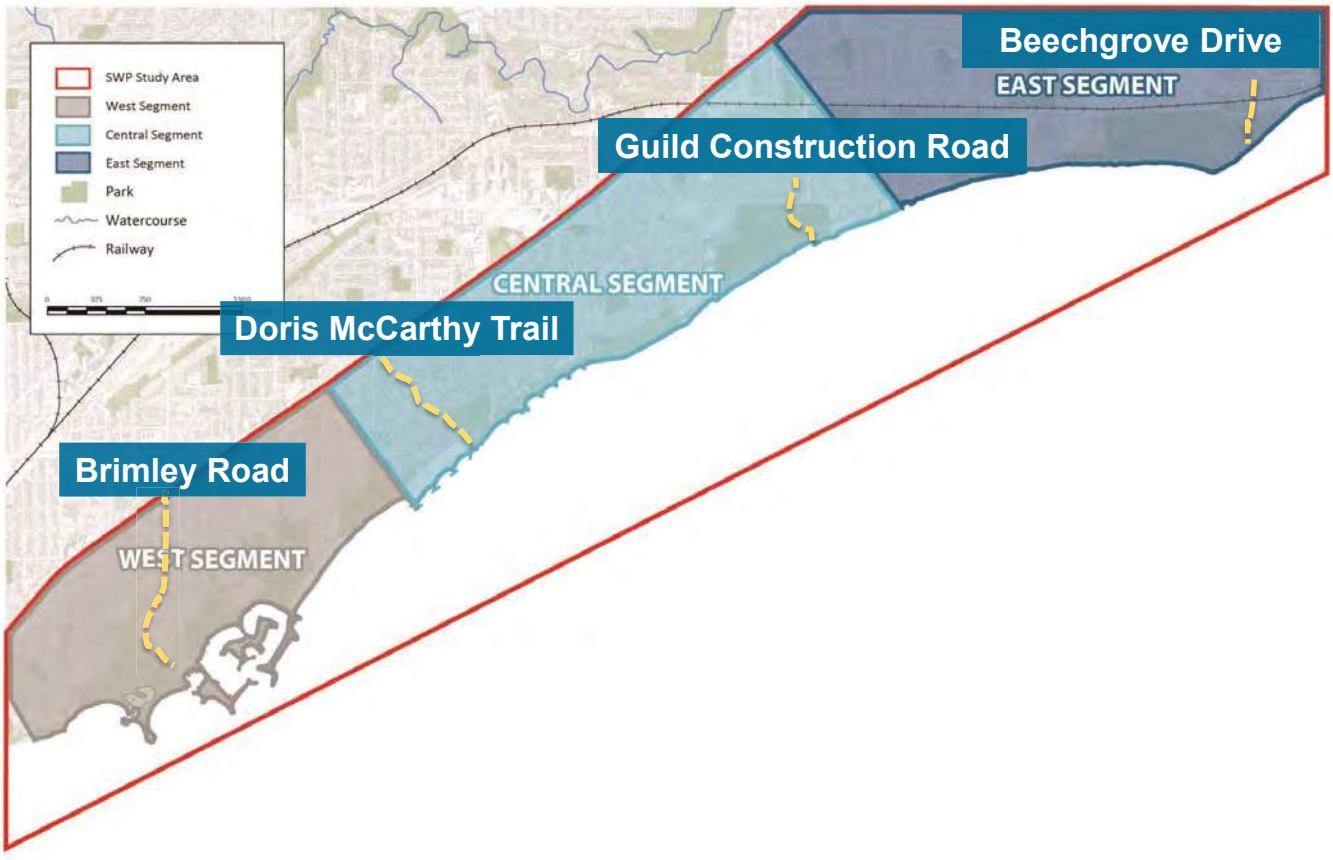
August 24, 2016

Meeting Agenda

1. Project Overview & Update
2. Overall Preferred Alternative
3. Questions / Comments
4. Next Steps & Timelines

Project Overview

Study Area & Existing Access Points



Project Vision & Objectives

VISION

Create a system of greenspaces along the Lake Ontario shoreline which respect and protect the significant natural and cultural features of the Bluffs, enhance the terrestrial and aquatic habitat, and provide a safe and enjoyable waterfront experience.

Photo by Chris Henry

OBJECTIVES

1. Protect and enhance terrestrial and aquatic features and linkages (**natural environment**)
2. Manage public safety and property **risk**
3. Provide an enjoyable waterfront **experience**
4. Consistency and **coordination** with other initiatives
5. Achieve value for **cost**

Environmental Assessment Process

- ✓ **Step 1:** Assess existing conditions
- ✓ **Step 2:** Confirm problems and opportunities
- ✓ **Step 3:** Develop Segment Alternatives and draft Evaluation Criteria
- ✓ **Step 4:** Select Preferred Segment Alternatives
- **Step 5:** Identify & Refine Overall Preferred Alternative — WE ARE HERE
- **Step 6:** Conduct Detailed Effects Assessment
  Develop mitigation, monitoring and adaptive management strategies
  Develop construction plan & phasing strategy
  Develop cost estimate & funding strategy

Planning Context

Public Consultation & Feedback

Stakeholder Committee Meetings & Public Information Centres

Additional Public Outreach Events

Direct Community Engagement

Public Feedback

- Over 1,500 comments received following last Public Information Centre (PIC). Strong support for West & Central segments.
- Some concerns regarding the area around East Point Park, but majority supportive of proposed Preferred Alternative.

Overall Preferred Alternative

- **Key Features**
  - Safe public access to and along the Scarborough waterfront, including AODA access at key locations.
  - Improved connections to the waterfront for the broader communities.
  - Improved aquatic habitat & terrestrial habitat connectivity.
  - Contributes to improved water quality.
  - Long term erosion protection for public infrastructure.
  - Improve terrestrial habitat at East Point Park by formalizing one access route.
  - Provides safe public access to 1.6 km of previously inaccessible private / restricted shoreline in the east segment. Retains the full length of existing sand beach at East Point Park (about 2.5 km).

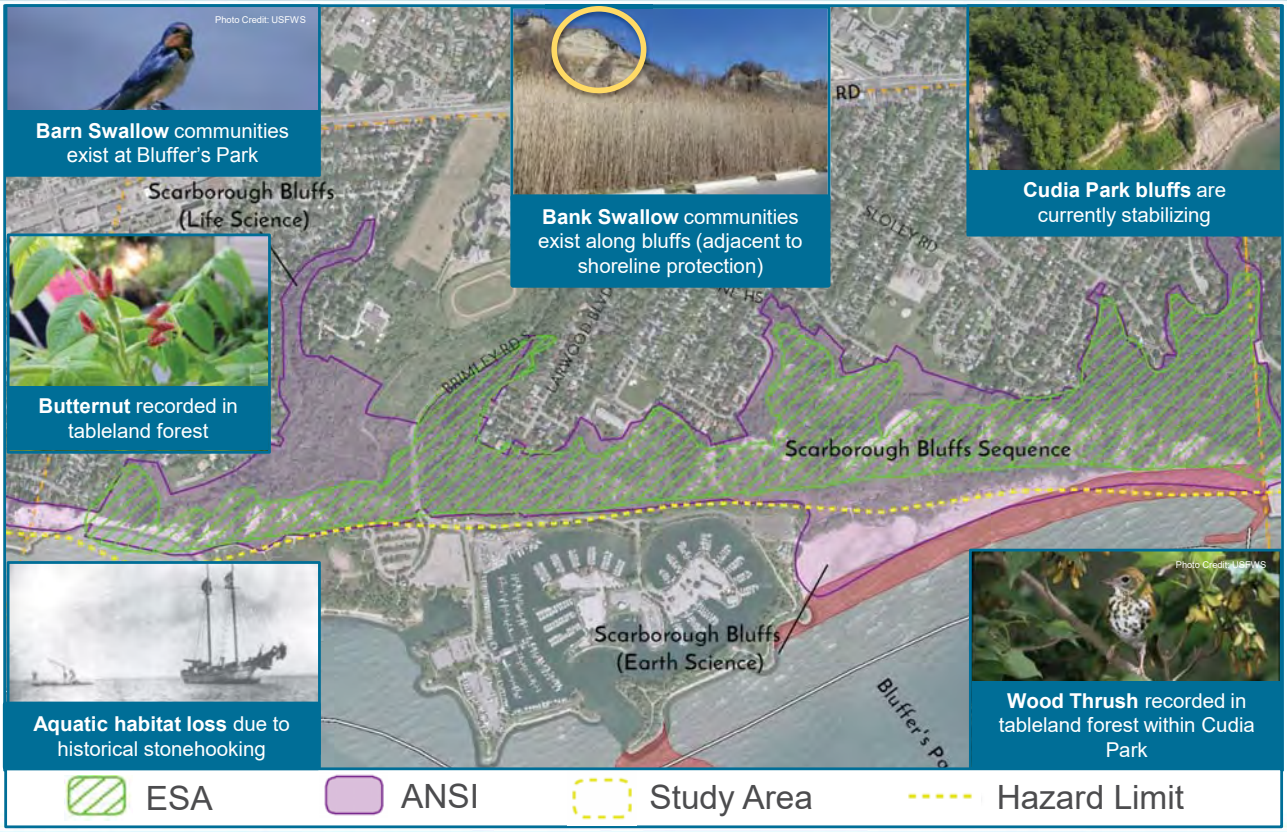
East Segment Feedback

Following the PIC:

- Majority of comments were supportive.
- Evaluation results re-confirmed.
- Public messaging being developed.

West Segment

Existing Conditions

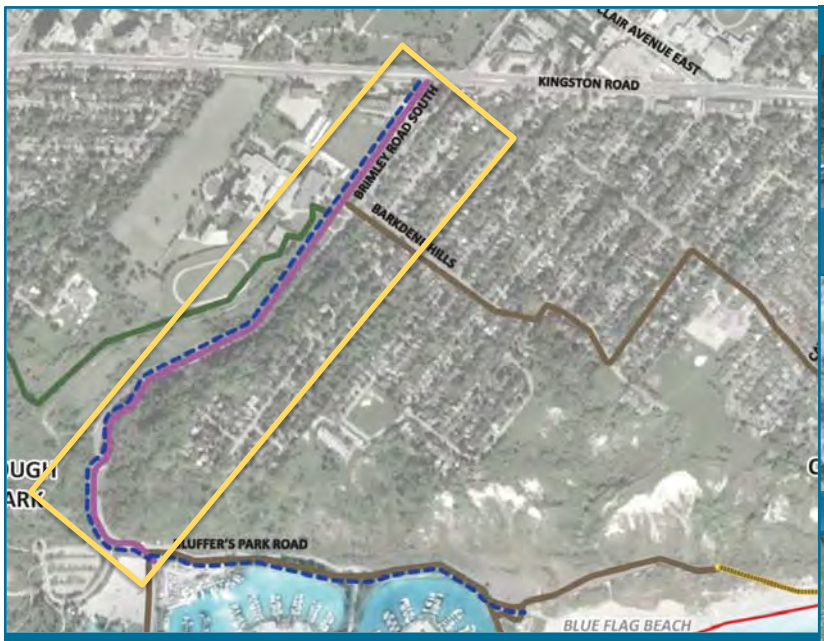


West Preferred Alternative: Expanded Beach (Wide)

Existing Conditions

Preferred Alternative Conceptual Image

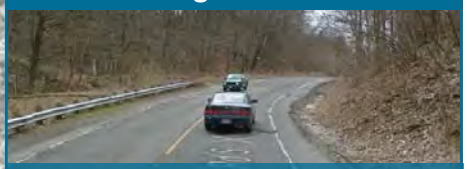
Brimley Road



Project Goal

- Improve safety along stretch from Kingston Road to Bluffer's Park. Explore alternative transportation and parking opportunities.

Existing Conditions



Unsafe Road Conditions for Cyclists & Pedestrians

Historical informal landfill site

Forest Communities form part of the Scarborough Bluff Sequence ESA

Brimley Road

- **Habitat Considerations**
  - Targeted habitat enhancements (e.g. nest boxes, native vegetation plantings)

Nest Boxes

Native Vegetation Planting

Bluffer's Park Western Headland

Project Goals

- Protect the shoreline directly behind the headland.
- Contribute to sediment accretion.
- Provide safe public access to Meadowcliffe.
- Reduce sedimentation in the marina.
- Reduce frequency of dredging.
- Provide habitat enhancement opportunities.
- Provide maintenance and emergency services access.

Current Extent of Headland

Bluffer's Park Western Headland

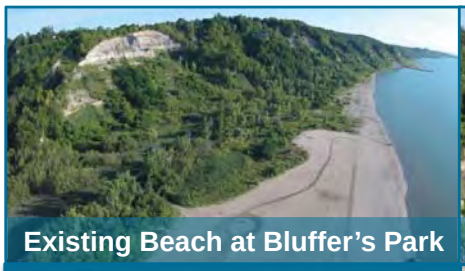
- **Habitat Considerations**
  - Creation of transitional aquatic habitat for species ranging from shallow to deep water (e.g. nearshore structural shoals).
  - Potential addition of a cobble beach along western portion of headland.
  - Terrestrial habitat enhancements.

Conceptual representation

Addition of shoals

Aquatic habitat enhancement for target species

Beach Expansion



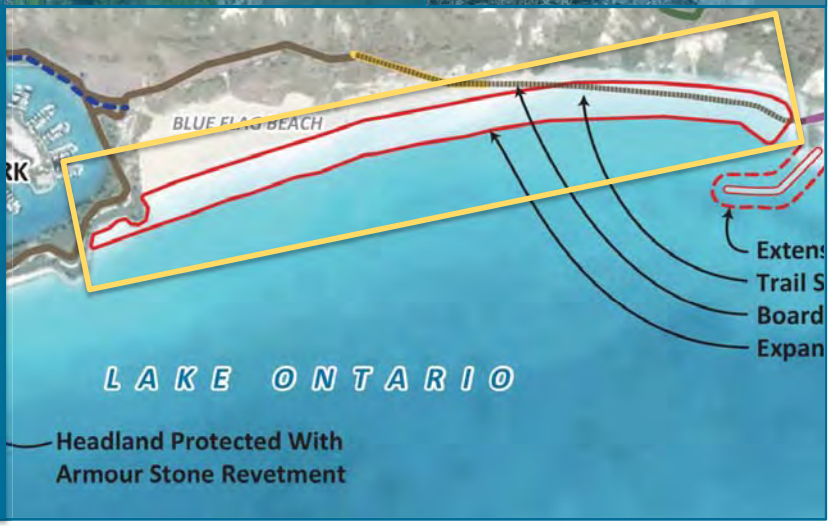
Existing Beach at Bluffer's Park

Cudia Park Bluffs

No Access to Meadowcliffe

Project Goals

- Provide safe public access to Meadowcliffe from Bluffer's Park.
- Accommodate maintenance vehicles and ambulance.
- Accommodate a fire truck, if feasible.
- Expand the existing dune habitat east.



Beach Expansion

- **Habitat Considerations**
  - Provides opportunities to expand provincially significant sand dune communities.
  - Aquatic habitat enhancements.

Conceptual representation

Aquatic habitat enhancements

Expansion of sand dune communities

Central Segment

Existing Conditions

Central Preferred Alternative: Headland-Beach

Existing Conditions

Preferred Alternative Conceptual Image

Sylvan & South Marine Drive

Project Goals

- Provide safe formal public access, which meets AODA.
- Improve terrestrial habitat connectivity.
- Improve aquatic habitat.

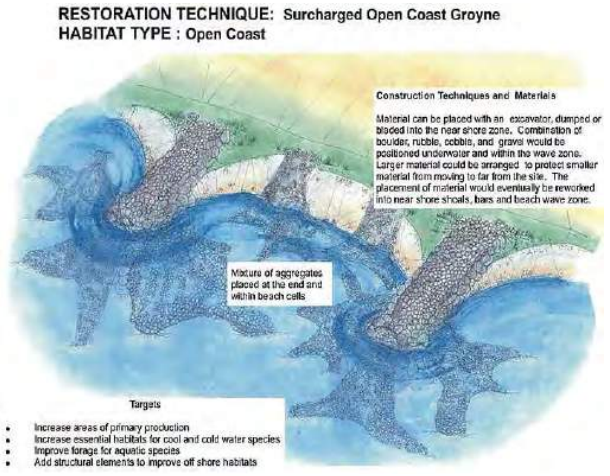
Construction Access Road

Sylvan Shoreline

South Marine Drive Shoreline

Sylvan & South Marine Drive

- **Habitat Considerations**
  - Aquatic habitat enhancements.
  - Terrestrial habitat enhancements to improve habitat connectivity.



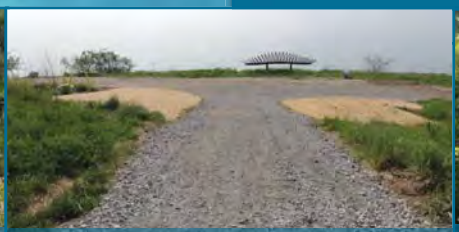
Aquatic habitat enhancements

Doris McCarthy Trail

Project Goals

- Provide a local access point from the tablelands to the shoreline for pedestrians and cyclists.
- Achieve up to an 8% grade along the lower portion of the Doris McCarthy Trail (improved accessibility).
- Contribute to improved stormwater quality (outlet at base of road).

Interim Repairs Completed

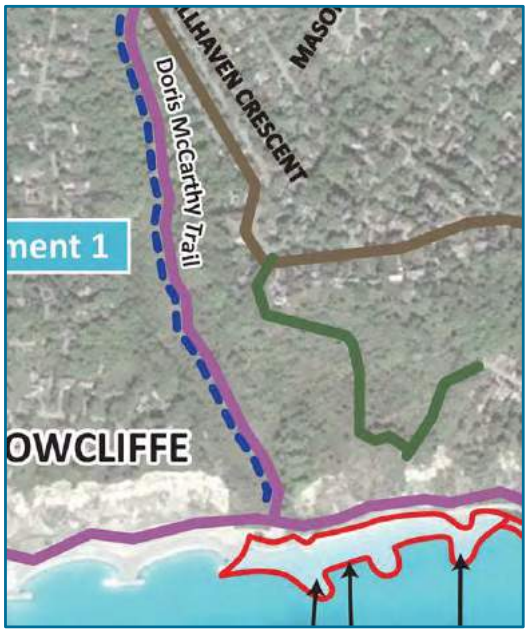


Current Interface with Shoreline

Steep Grade

Doris McCarthy Trail

- **Habitat Considerations**
  - Aquatic habitat enhancements along headlands.
  - Targeted terrestrial habitat enhancements.
  - Opportunity for small backshore wetland at outfall.



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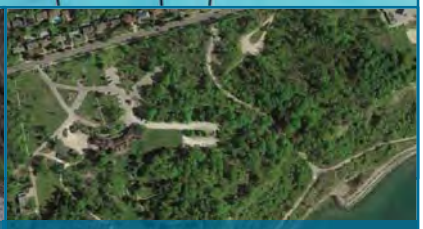
CITY OF TORONTO | TORONTO AND REGION CONSERVATION

Guild Access Road

Project Goals

- To improve the grade of road so that it meets AODA (target 5% grade).
- To provide a multi-use gathering space at the base of the road.

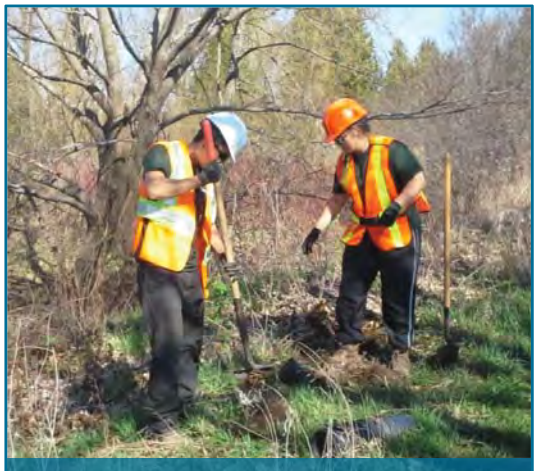
Existing Construction Road



Aerial View

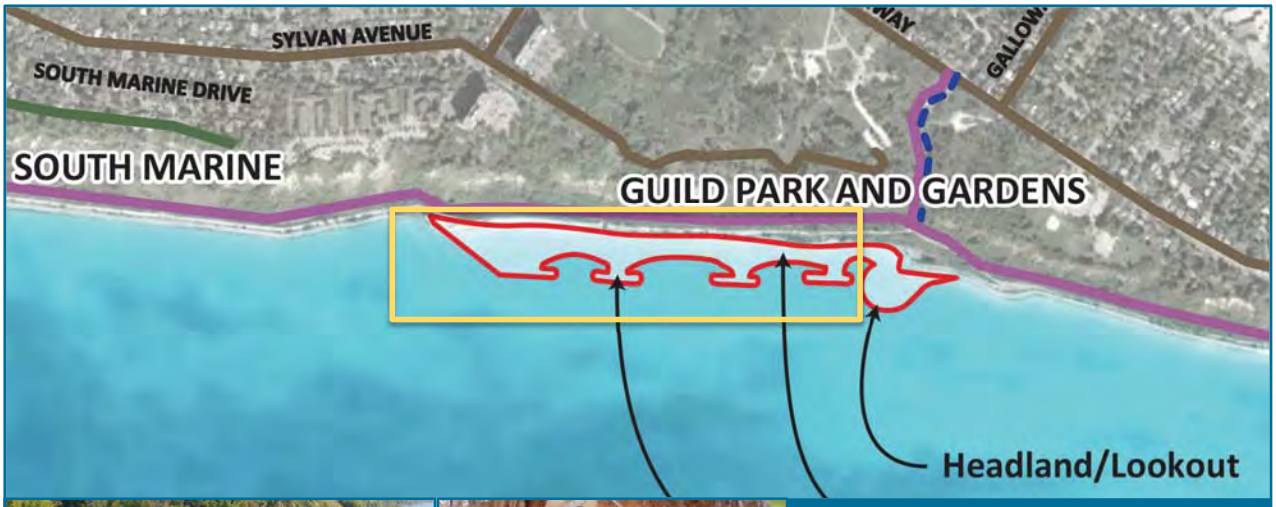
Guild Access Road

- **Habitat Considerations**
  - Coordination with City of Toronto to increase tree cover and to address soil compaction within Guild Park and Gardens.



Native Vegetation Planting

Guild Park and Gardens to Grey Abbey



Guild Park & Gardens Shoreline

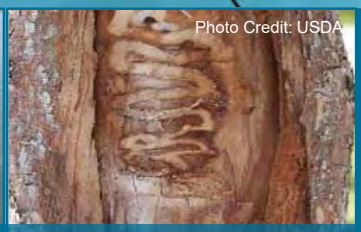


Photo Credit: USDA

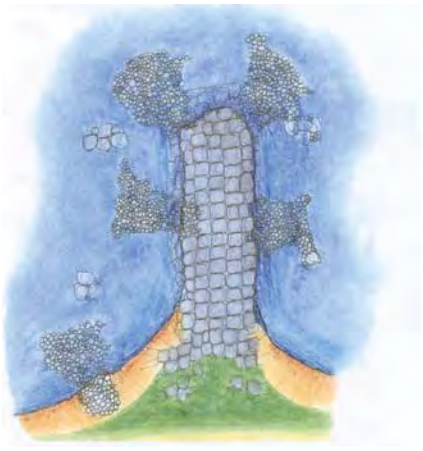
EAB Impact on ash trees

Project Goals

- Long term protection for the shoreline.
- Provide safe, formal public access which meets AODA.

Guild Park and Gardens to Grey Abbey

- **Habitat**
  - Aquatic habitat enhancements along headlands.
  - Targeted terrestrial habitat enhancements.
  - Improved terrestrial habitat connectivity due to expanded landbase.



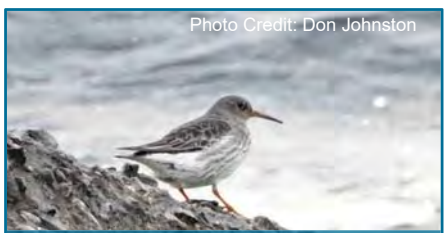


Photo Credit: Don Johnston

Stopover habitat for shorebirds

Aquatic habitat enhancements to target forage fish

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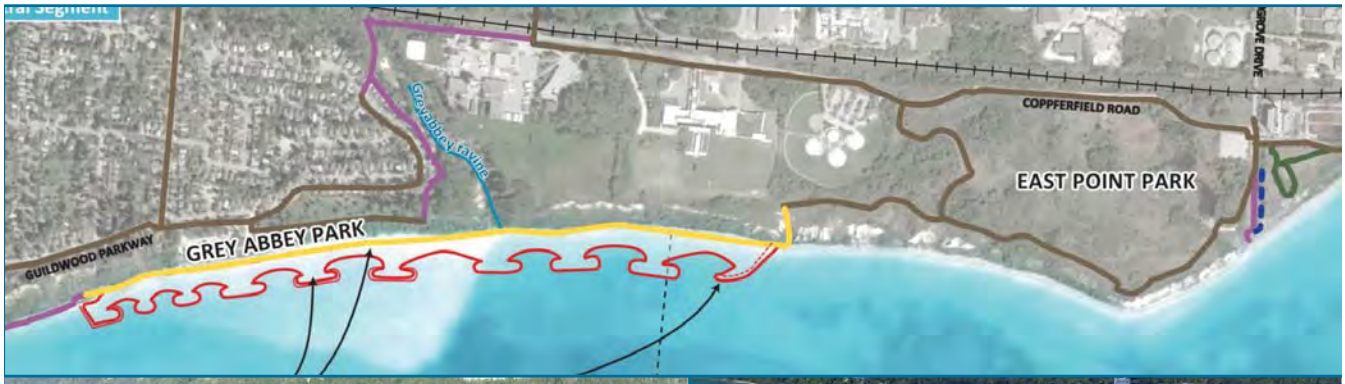
East Segment

Existing Conditions

East Preliminary Preferred: Headland – Beach to EPP



Existing Conditions

Preferred Alternative Conceptual Image

Shoreline to East Point Park

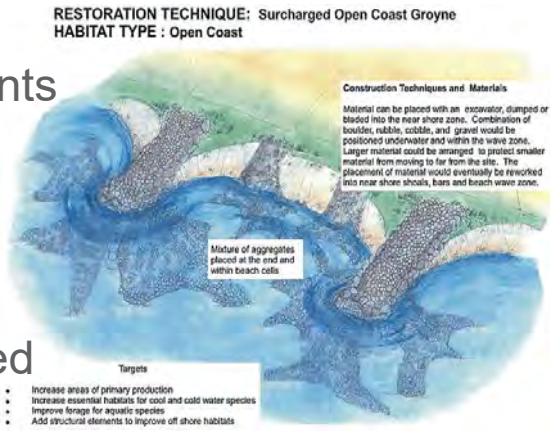
Project Goals

- Open 1.5km of private / restricted shoreline to safe, formal public access.
- Long-term protection for public infrastructure.
- Improve aquatic habitat and terrestrial habitat connectivity.

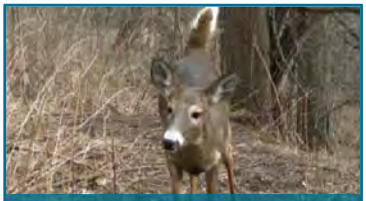
Existing shoreline

Shoreline to East Point Park

- **Habitat Considerations**
  - Aquatic habitat enhancements along headlands.
  - Targeted terrestrial habitat enhancements.
  - Improved terrestrial habitat connectivity due to expanded landbase.

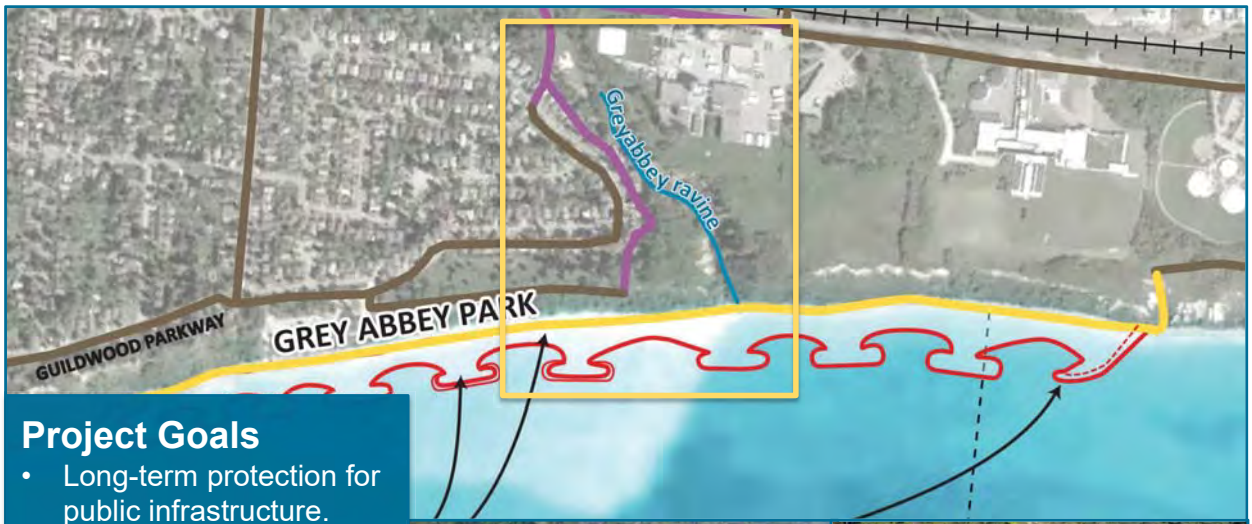


Aquatic habitat enhancements



Increased habitat connectivity

Grey Abbey Ravine



Project Goals

- Long-term protection for public infrastructure.
- Address conveyance of flows.
- Contribute to improvements in water quality (4 stormwater outlets into ravine).

Rohm And Haas plant

Grey Abbey ravine

East Point Park Shoreline Access

Project Goals

- AODA access to the shoreline.
- Continuous bike connection.
- Potential access for some emergency services.
- Improve terrestrial habitat by formalizing one access point.

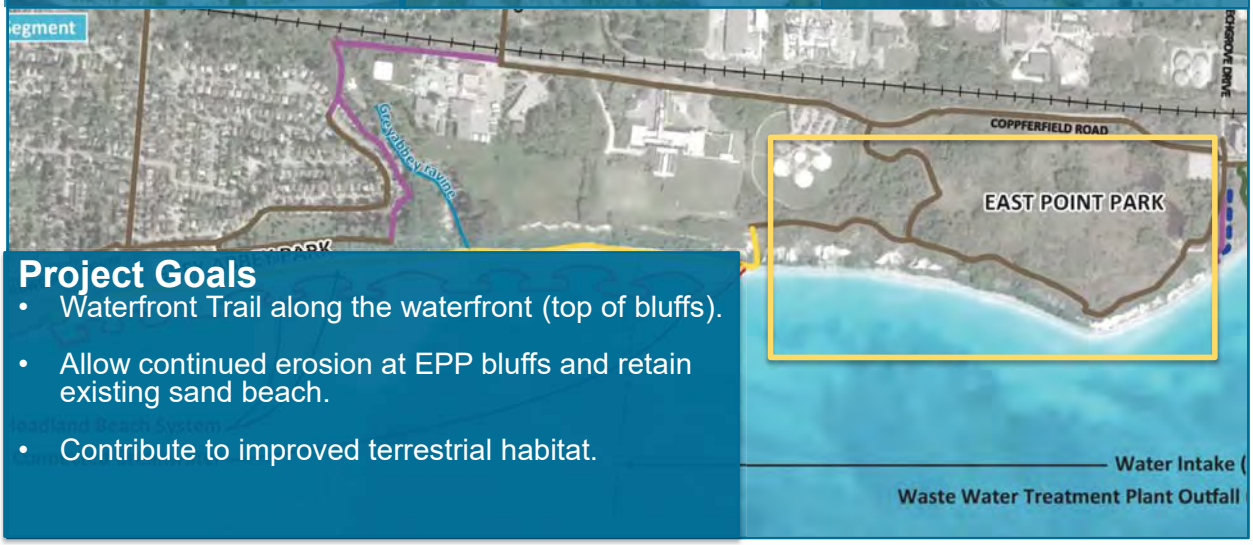
Current Informal Trail to Shoreline

East Point Park Tablelands & Shoreline

East Point Park Tablelands

Current Tableland Trail

East Point Park Sand Beach



Project Goals

- Waterfront Trail along the waterfront (top of bluffs).
- Allow continued erosion at EPP bluffs and retain existing sand beach.
- Contribute to improved terrestrial habitat.

East Point Park Tablelands & Shoreline

- **Habitat Considerations**
  - Retains the full length of existing sand beach at East Point Park (about 2.5 km).
  - Improvement to terrestrial habitat on tablelands through decommissioning of informal trails.
  - Moves trail away from Bank Swallow burrows along beach.
  - Opportunities to support in development of East Point Park Management Plan.
  - Potential aquatic enhancements.

East Point Park shoreline

Bank Swallow burrows

Beechgrove Drive

Highland Creek WWT Plant & Beechgrove Drive

Project Goals

- Provide formalized access to shoreline via Beechgrove Road.
- Improve accessibility.
- Protect outfall at base of road.
- Provide lookout node.

Beechgrove Drive

- **Habitat Considerations**
  - Address outfall at the base of Beechgrove Drive.
  - Address habitat fragmentation.

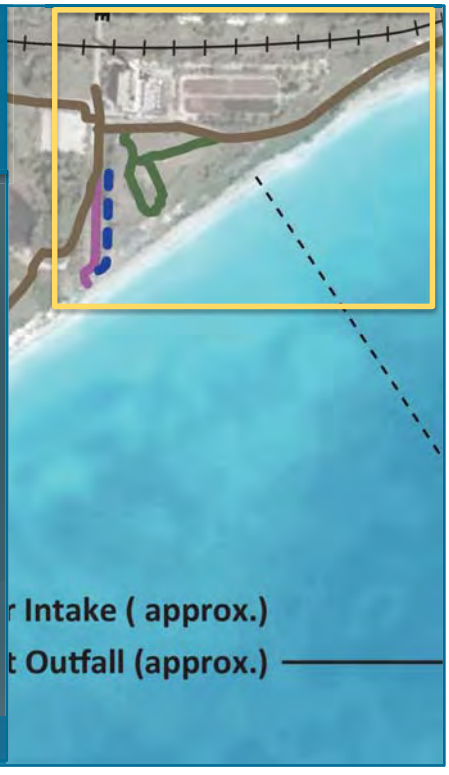
Outfall at base of Beechgrove Drive

Connection to Port Union

Project Goal

- Move connection to Port Union closer to the water's edge.

Current Connection



Connection to Port Union

- **Habitat Considerations**
  - Area not an ANSI or ESA.
  - Address informal trails.
  - Improve habitat connectivity.
  - Facilitate self-sustaining vegetation communities.

Informal trail south of Highland Creek wastewater treatment plant

Questions?

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Next Steps & Timelines

Next Steps & Timelines

EA Action	Approximate Completion
Refinements to Preferred Alternative	August 2016
Impact Assessment of the Preferred Alternative	September 2016
Present Final EA Results	November 2016
Draft Submission	February 2017
SC Draft EA Page-Turn Review	February 2017
Official Submission	April 2017

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Thank You!

SCARBOROUGH WATERFRONT PROJECT

Environmental Assessment

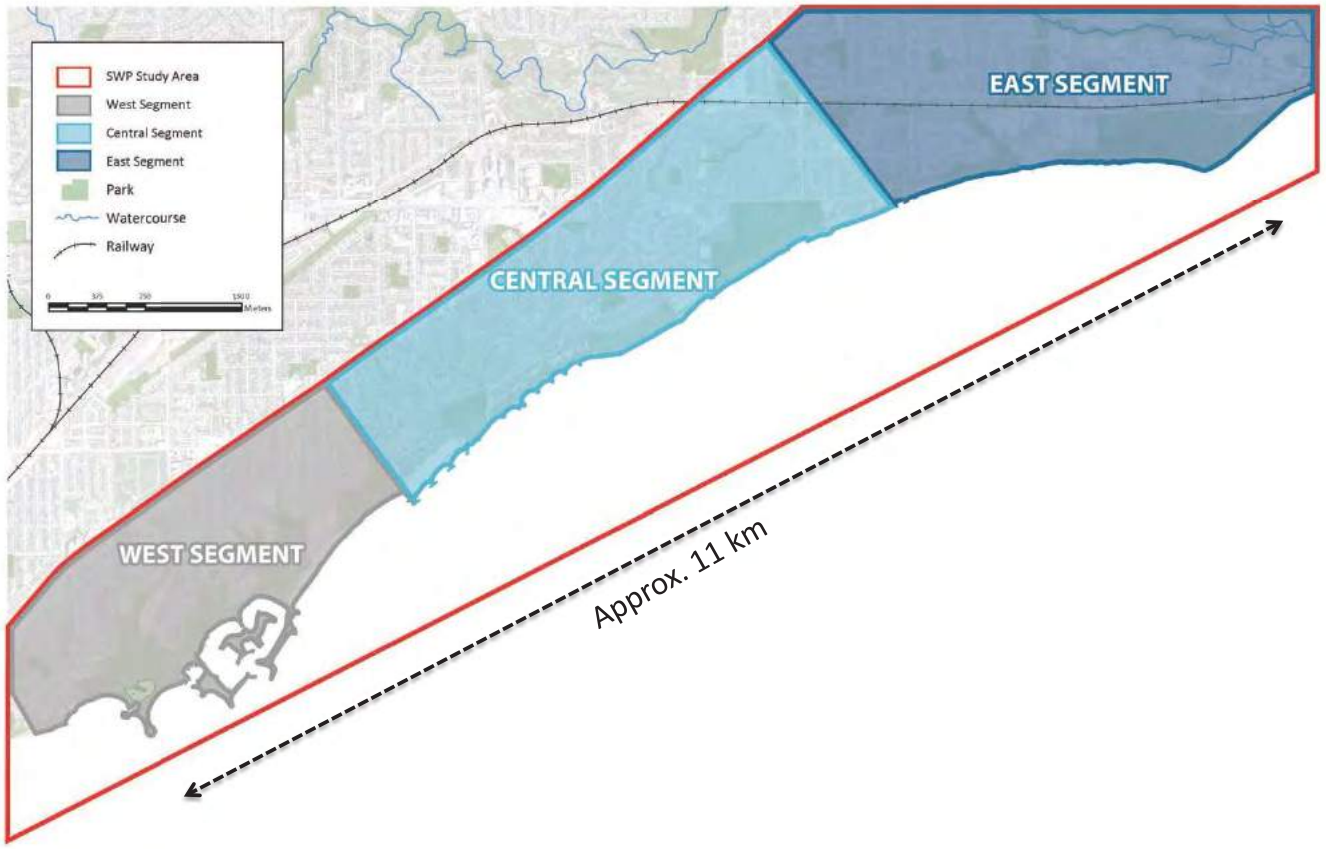
Project Update for Ministry of Natural Resources and Forestry

June 8, 2017

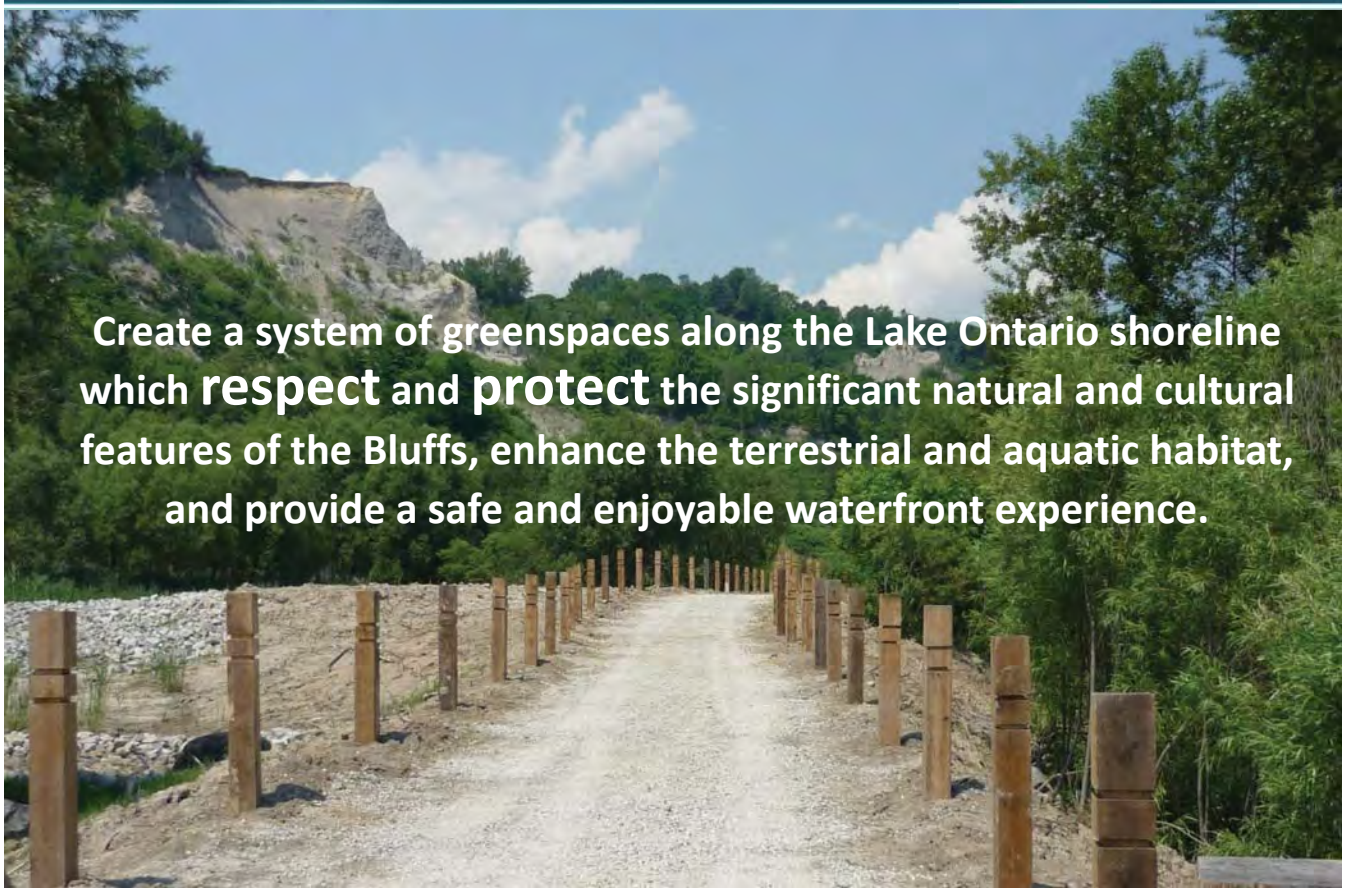
Outline

1. **Project Update**
   a. Reminder: Study Area, Vision & Objectives
   b. Refined Preferred Alternative
2. **Aquatic & Terrestrial Enhancements**
3. **Detailed Effects Assessment**
4. **Construction Mitigation**
5. **Next Steps**

Project Study Area



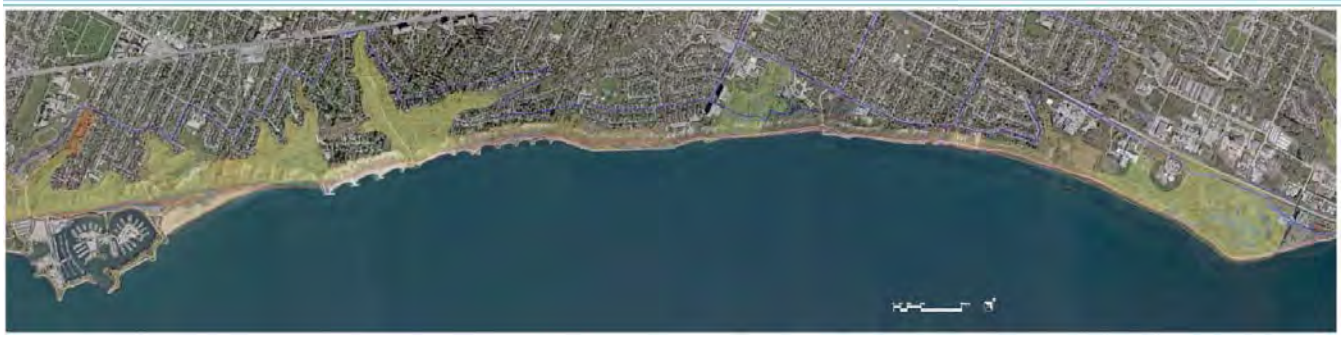
Project Vision



Project Objectives

1. Protect and enhance **natural environment** (terrestrial and aquatic features and linkages)
2. Manage public safety and property **risk**
3. Provide enjoyable waterfront **experiences**
4. Consistency and **coordination** with other initiatives
5. Achieve value for **cost**

Baseline Conditions

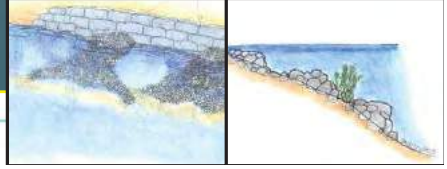


Refined Preferred Alternative

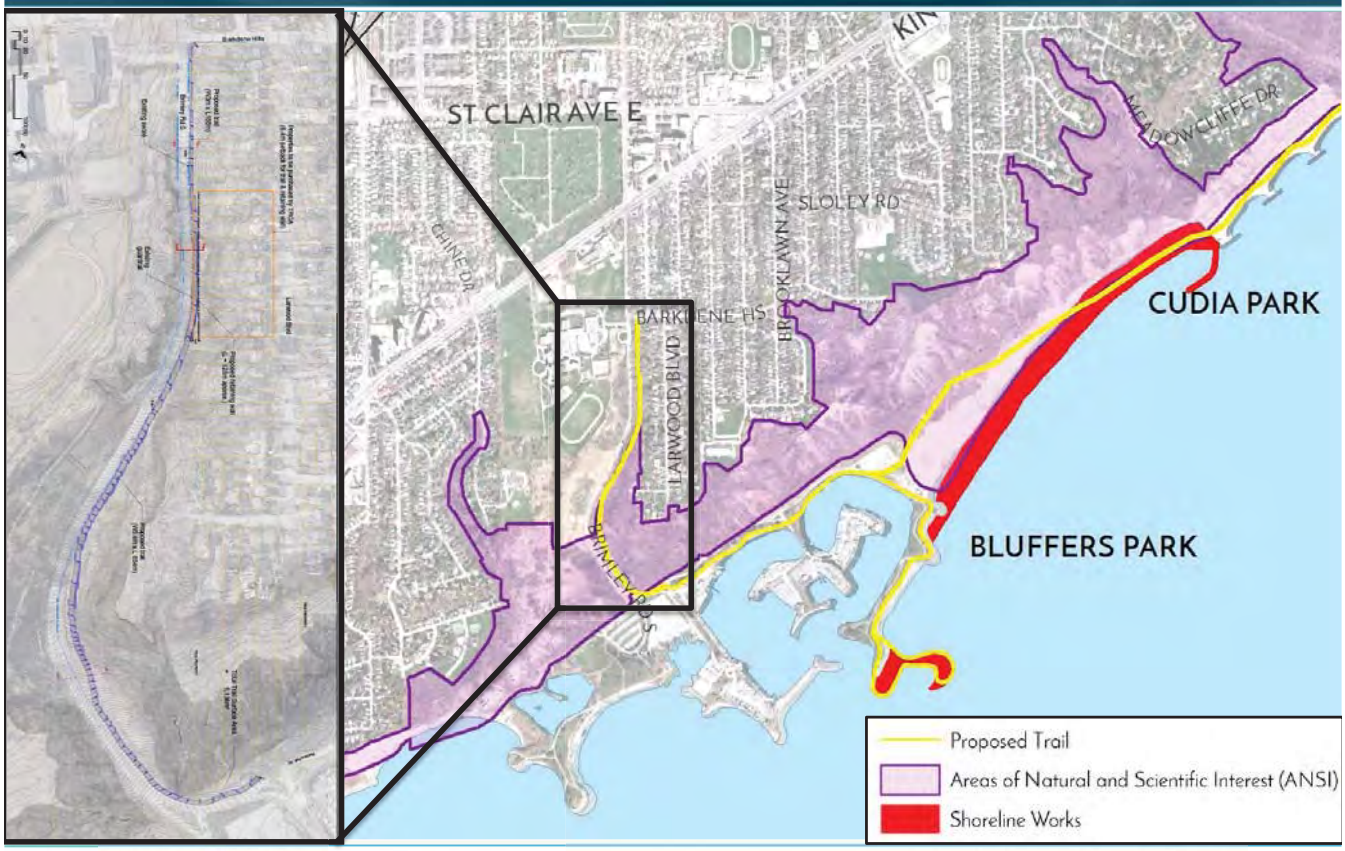
Baseline Conditions – West Segment

Refined Preferred – West Segment

Opportunity for shoals and surcharging along new structures.



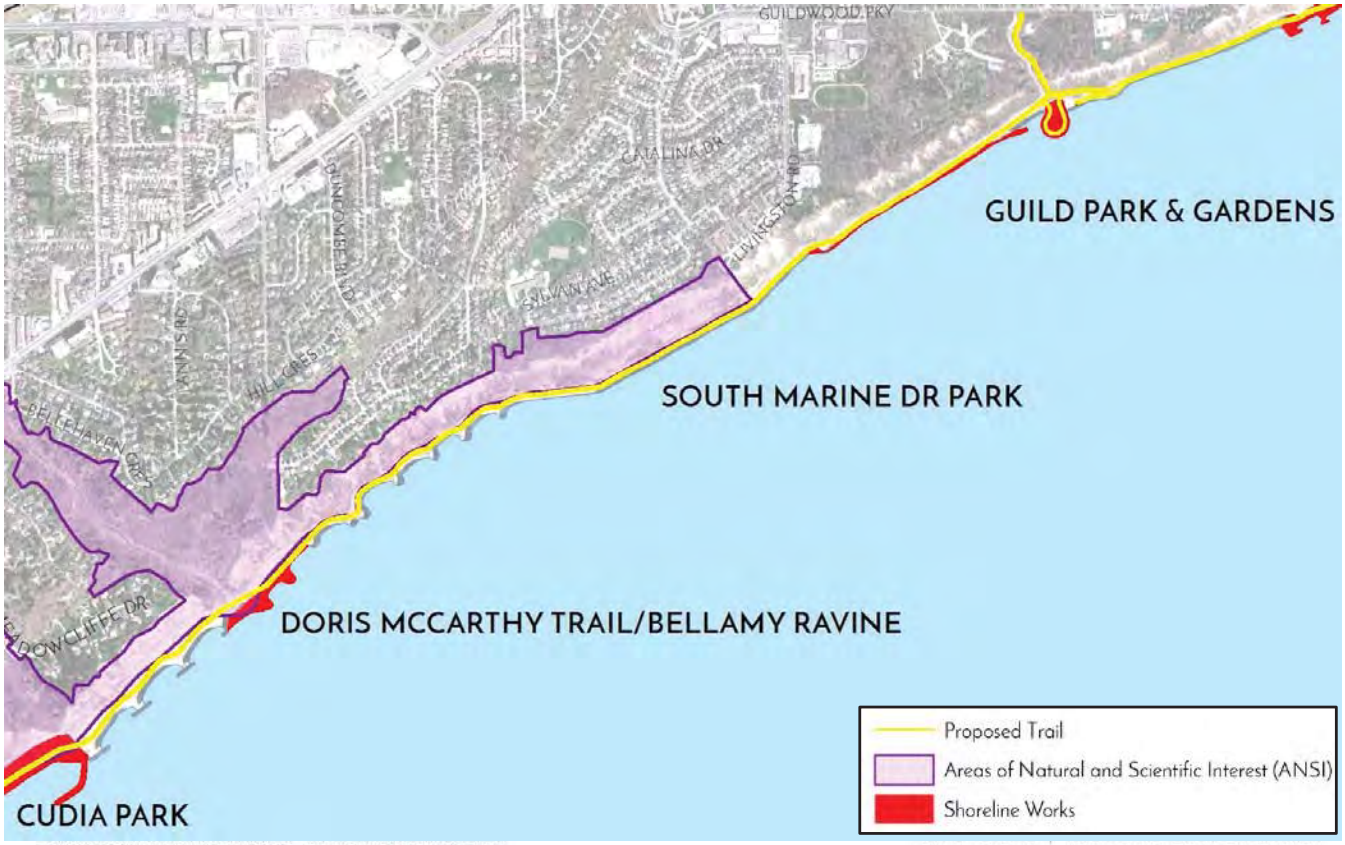
West Segment Shoreline Access



Baseline Conditions – Central Segment

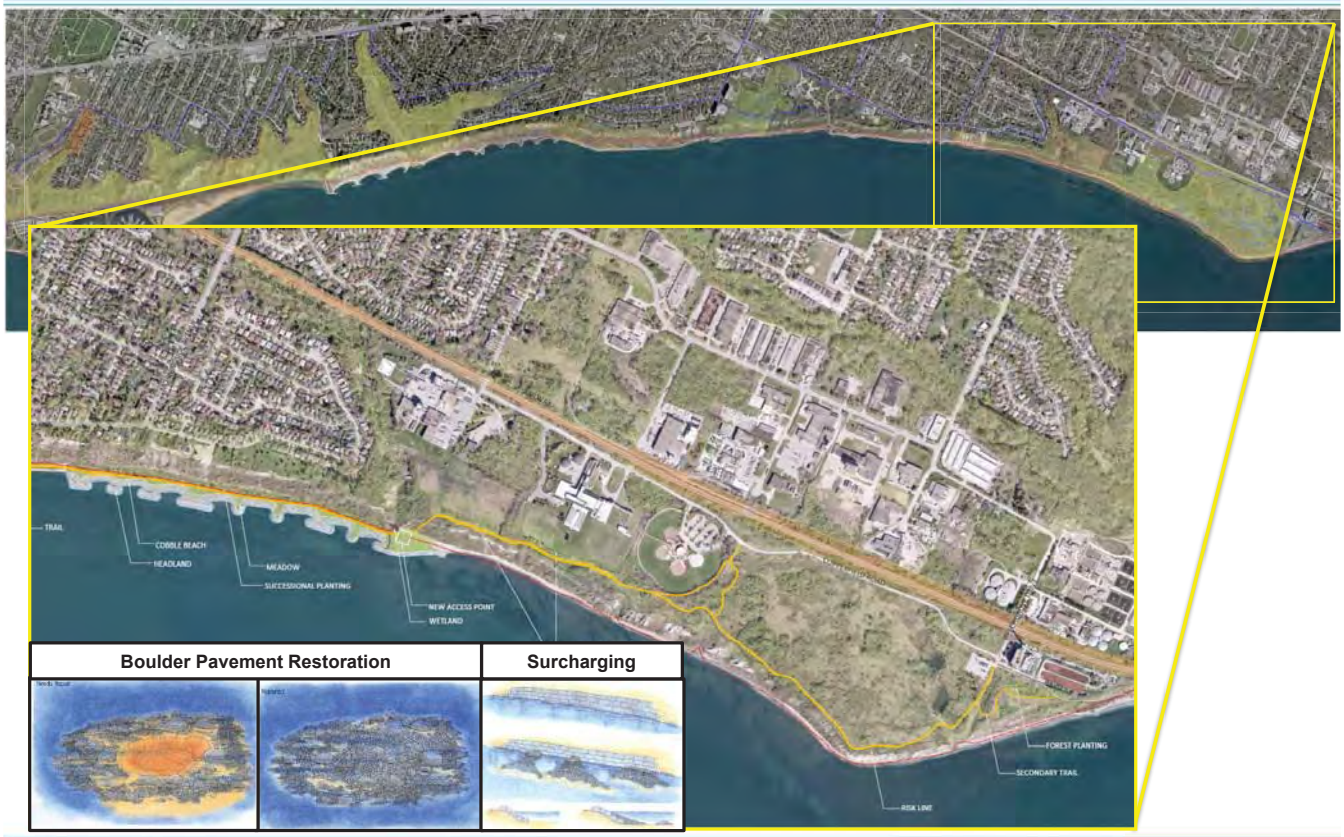
Refined Preferred – Central Segment

Central Segment Shoreline Access

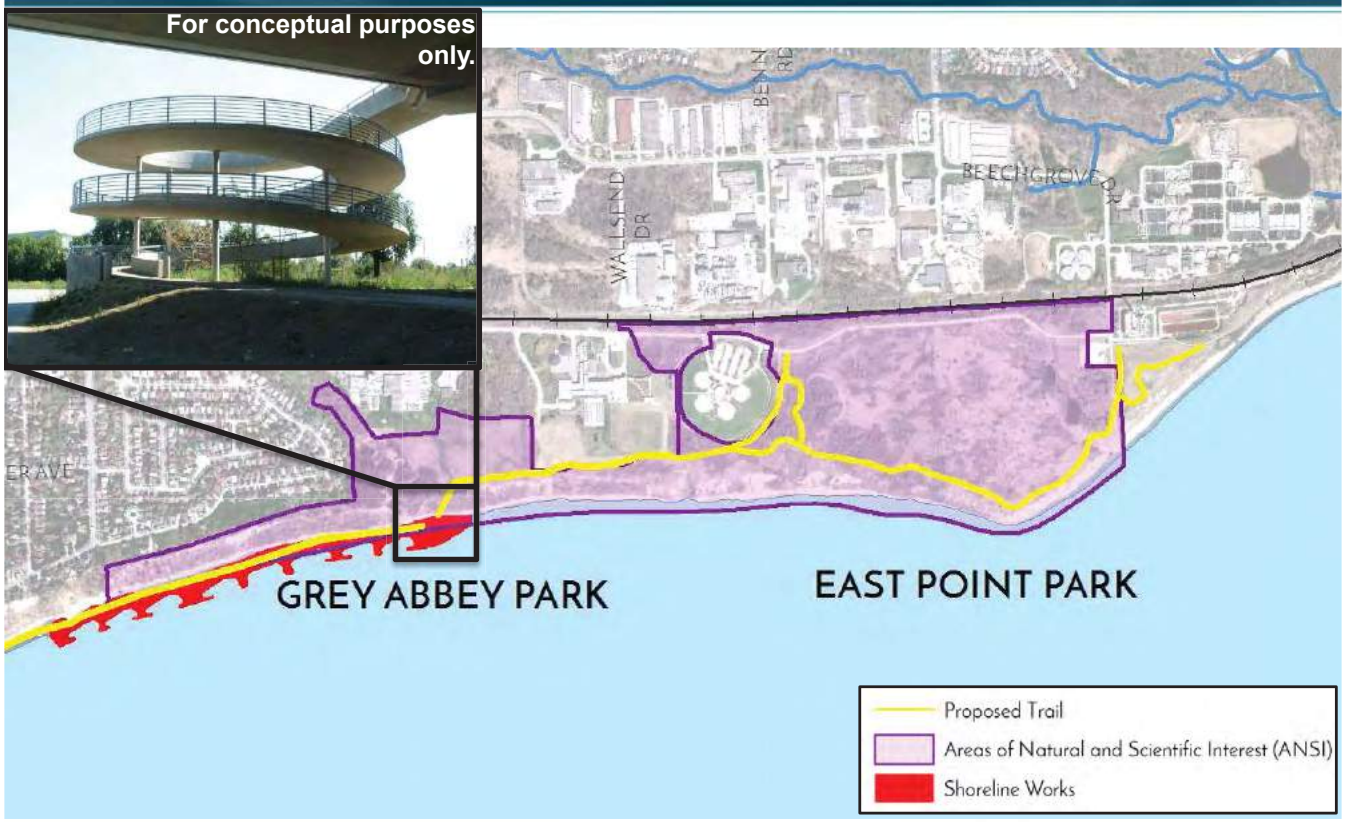


Baseline Conditions – East Segment

Refined Preferred – East Segment



East Segment Trail: Tableland Transition



Detailed Effects Assessment

- ~ 2.95 ha of existing habitat located within ANSIs and ESAs will be removed
- ~ 1.8 ha of one rare community (sea rocket open sand beach) will be removed
- ~ 0.05 ha of bluff vegetation will be removed:
  - 25% of this is an exotic treed bluff community
  - the remainder is actively eroding mineral bluff
- ~ 17.9 ha of new naturalized habitat is to be created
- It is anticipated that anthropogenic impacts on Life Science ANSIs will be reduced once a formalized trail and access routes are implemented

Construction Mitigation

- **Adaptive Management & Active Monitoring**
  - Potential for year-round construction will be mitigated by adaptively managing construction timing windows (i.e., active monitoring throughout the construction period) and implementation of construction best management practices.
  - Disturbance to existing terrestrial habitat will be avoided and minimized where possible. In the case of bank swallows, construction will either be underway when the birds return in the spring, or will be avoided until they leave in the fall.
- **Construction Phasing**
  - Construction activities will be phased to minimize overall impacts by restricting work to one or two contained areas at a time using standard construction procedures.

Aquatic Compensation That May Be Considered

- **Compensation** will be developed during the Detailed Design phase of the Project as a component of the Fisheries Authorization, in consultation with appropriate agencies.
- **Compensation Options to be Considered** include:
  - Nearshore open coast habitat (incorporated into new designs or retrofits)
  - Sheltered embayment habitat (e.g., Bluffer's Park marina)
  - Habitat banking (e.g., coastal wetlands)

Project Timelines

Deliverable	Timelines
Stakeholder Committee meeting	June 14, 2017
Public Information Centre	June 28, 2017
TRCA Authority	July 28, 2017
Target Draft EA Submission	Mid August 2017
City of Toronto Executive Committee	Fall 2017
City of Toronto Council	Fall 2017
Target Formal EA Submission	Late 2017

Questions?

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