Colonel Samuel Smith Park
Major Maintenance Project Updates
Phase 2 and Aquatic Habitat Compensation Designs

Presented by:
Robyn Cox, Senior Project Manager
Andrew Ramsbottom, Senior Project Manager

October 9, 2026

Toronto and Region Conservation Authority

Agenda

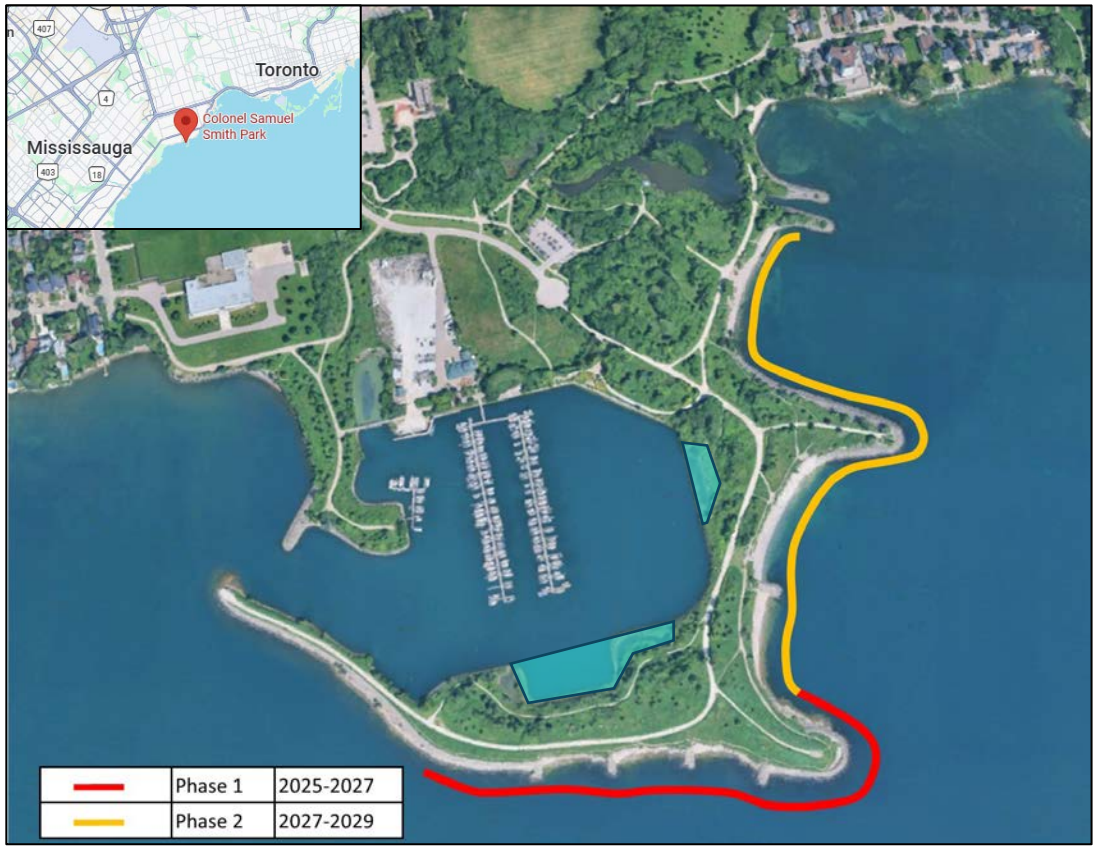
- Colonel Sam Smith Major Maintenance Project Overview
  - Phase 1 Update
- Phase 1 -Aquatic Habitat Compensation
  - Designs
  - Trail Impacts & Timeline
- Major Maintenance Phase 2
  - Design
  - Trail Impacts & Timeline
- Discussion/Questions

Colonel Samual Smith Major Maintenance Project Overview



- Artificial peninsula constructed in the late 1980s
  - Shoreline protection; provide recreation and ecological function
- 2016 Coastal Assessment recommended 12 of 19 structures for repair
- Major maintenance works have been phased by priority
- Construction for Phase 1 is currently underway

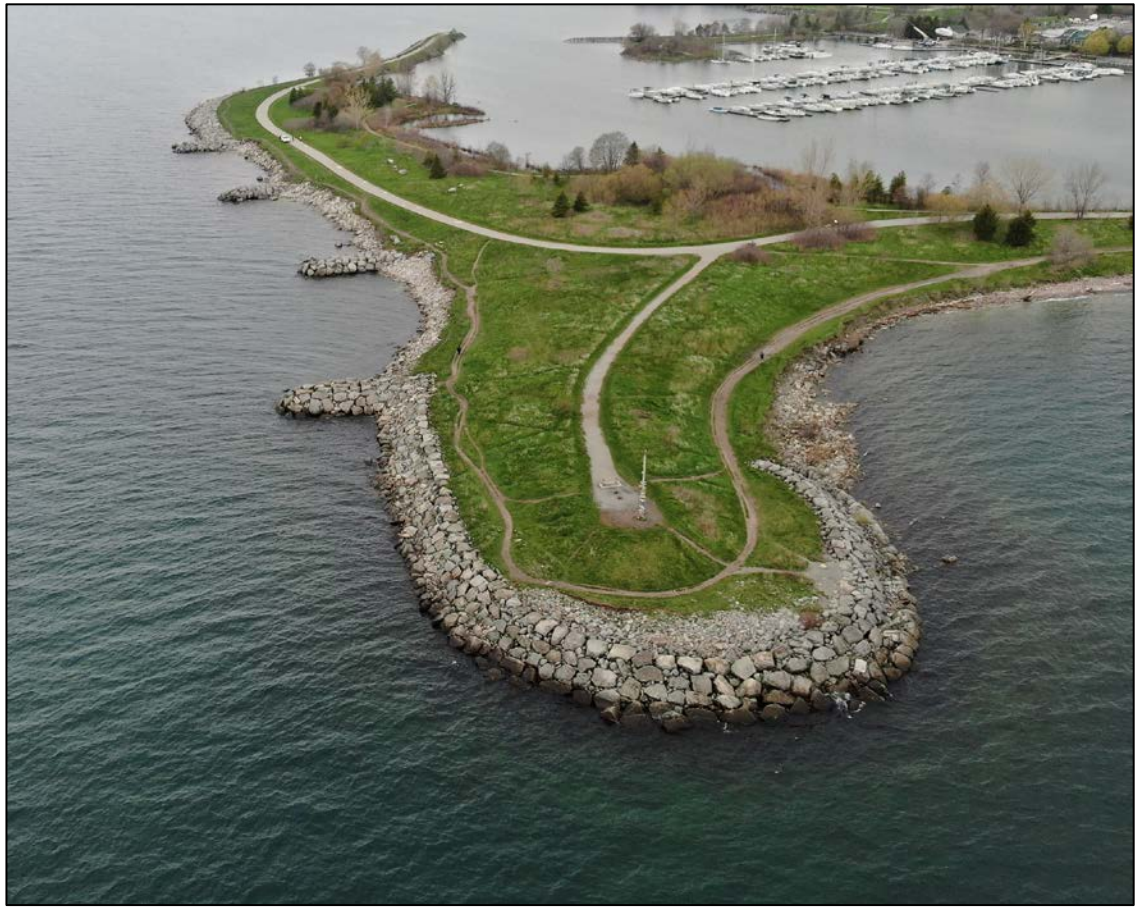
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Major Maintenance Phase 1 Update

- Construction began in 2024
- Approximately 60% complete
  - Whimbrel Point complete and restored
- Phase 1 construction on track for completion in 2027



Major Maintenance Phase 1 Update

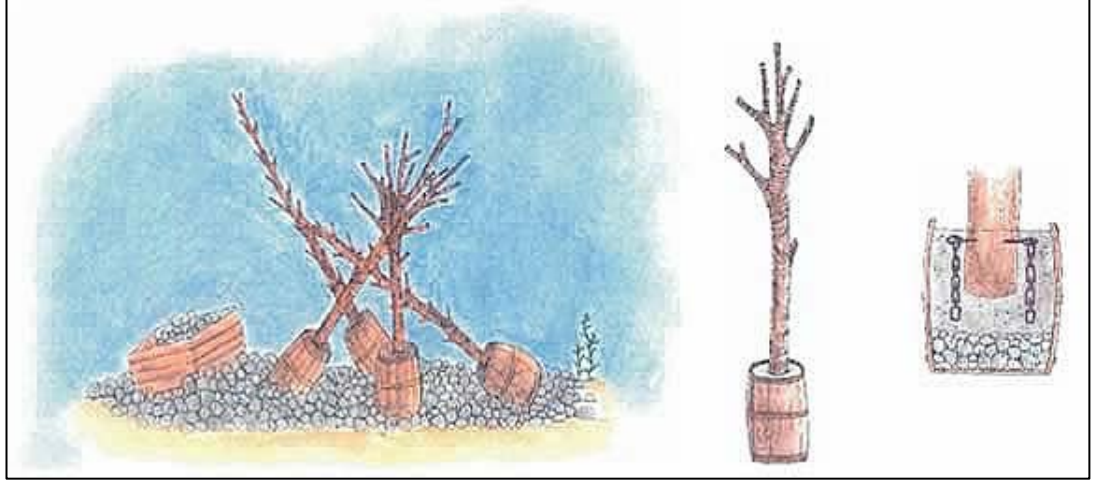
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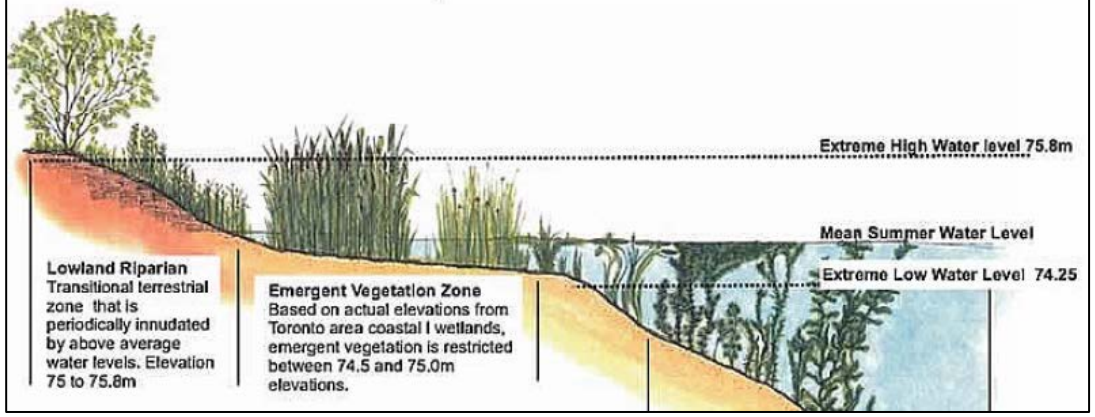
Phase 1 -Aquatic Habitat Compensation
Fisheries and Oceans Canada (DFO) Requirement

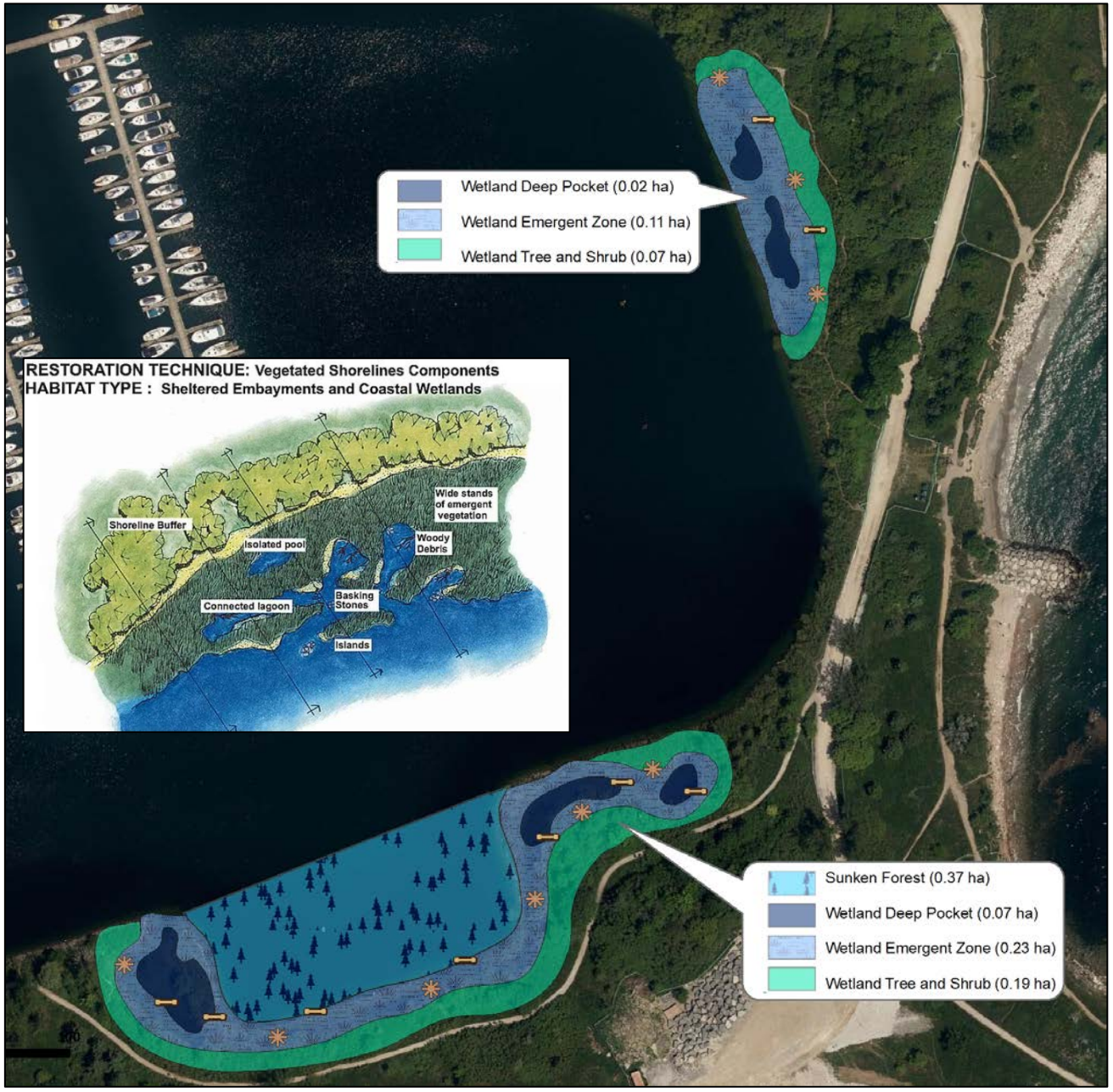
Phase 1 Habitat Offsetting

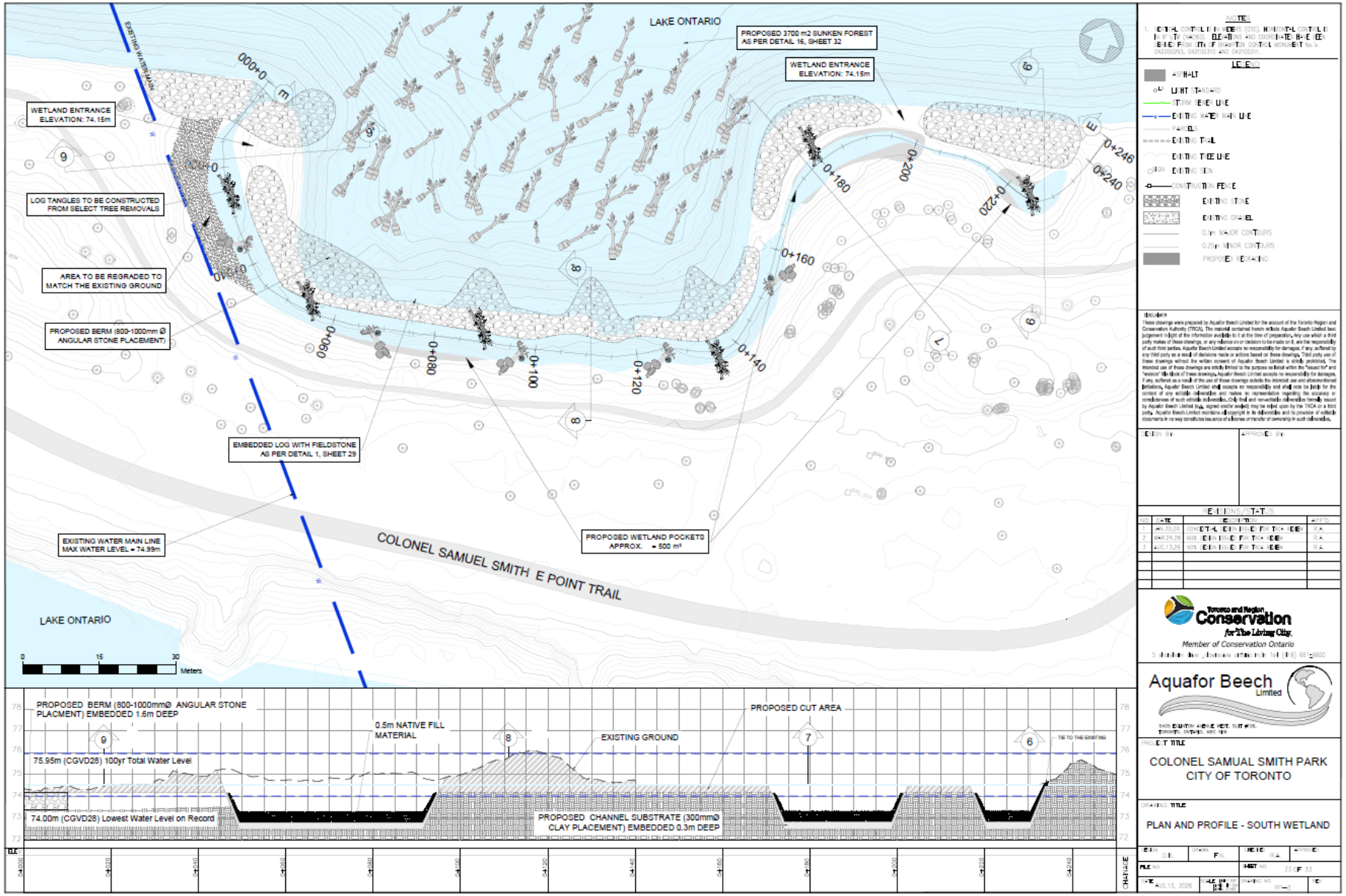
RESTORATION TECHNIQUE: Woody Debris Anchored Logs
HABITAT TYPE : Sheltered Embayments

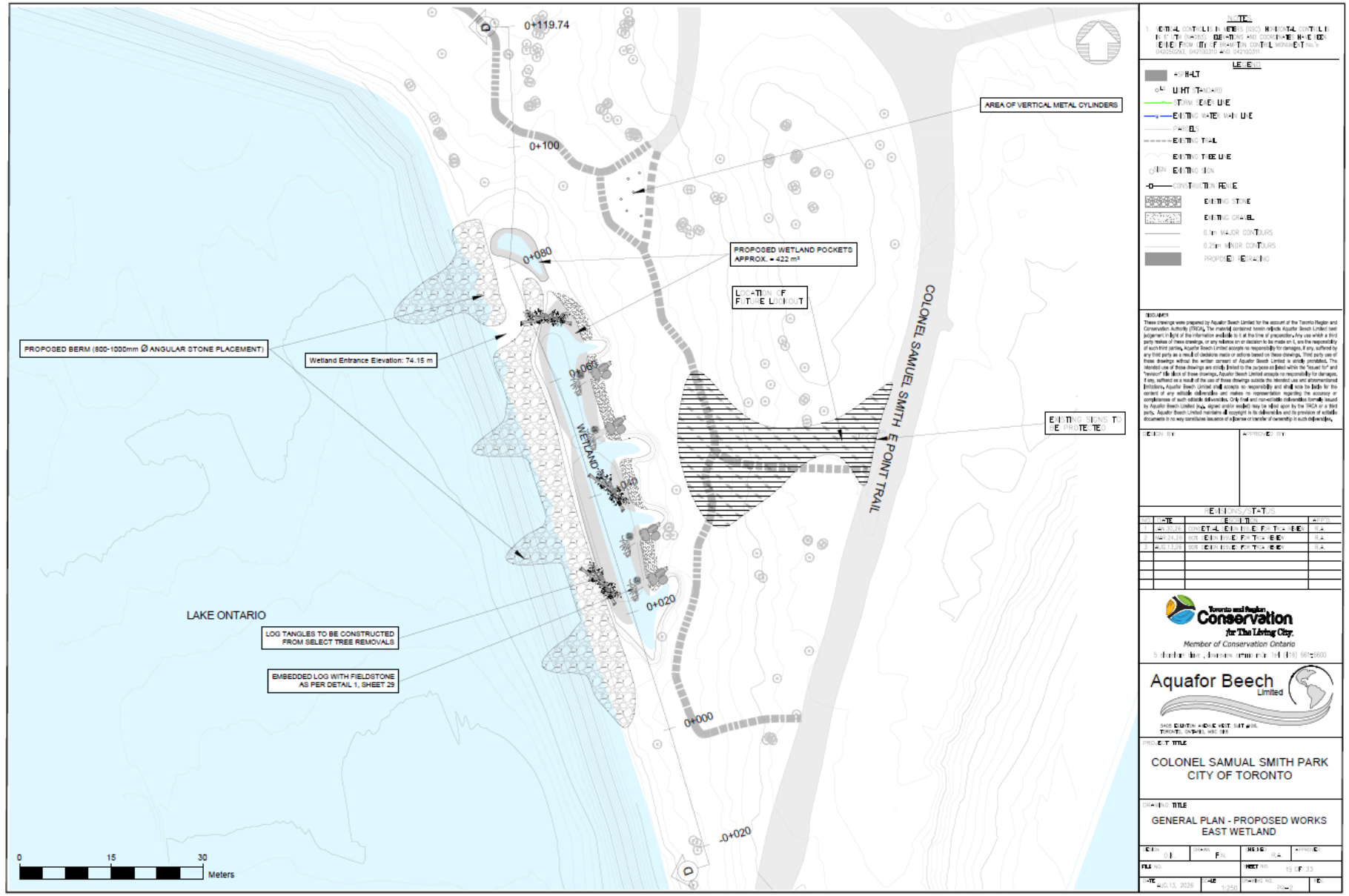


RESTORATION TECHNIQUE: Wetland Shoreline Profile and Water Levels
HABITAT TYPE: Sheltered Embayments






LAKE ONTARIO
PROPOSED 3700 m2 SUNKEN FOREST AS PER DETAIL 16, SHEET 32
WETLAND ENTRANCE ELEVATION: 74.15m
WETLAND ENTRANCE ELEVATION: 74.15m
EXISTING WATERMAIN
LOG TANGLES TO BE CONSTRUCTED FROM SELECT TREE REMOVALS
AREA TO BE REGRADED TO MATCH THE EXISTING GROUND
PROPOSED BERM (800-1000mm Ø ANGULAR STONE PLACEMENT)
EMBEDDED LOG WITH FIELDSTONE AS PER DETAIL 1, SHEET 29
EXISTING WATER MAIN LINE MAX WATER LEVEL = 74.99m
PROPOSED WETLAND POCKETS APPROX. = 500 m²
COLONEL SAMUEL SMITH E POINT TRAIL
LAKE ONTARIO
0 15 30
Meters
PROPOSED BERM (800-1000mmØ ANGULAR STONE PLACMENT) EMBEDDED 1.6m DEEP
0.5m NATIVE FILL MATERIAL
EXISTING GROUND
PROPOSED CUT AREA
75.95m (CGVD28) 100yr Total Water Level
74.00m (CGVD28) Lowest Water Level on Record
PROPOSED CHANNEL SUBSTRATE (300mmØ CLAY PLACEMENT) EMBEDDED 0.3m DEEP
NOTES
LEGEND
Toronto and Region Conservation for The Living City
Member of Conservation Ontario
Aquafor Beech Limited
PROJECT TITLE
COLONEL SAMUAL SMITH PARK
CITY OF TORONTO
DRAWING TITLE
PLAN AND PROFILE - SOUTH WETLAND


0+119.74
0+100
0+080
0+060
0+040
0+020
0+000
-0+020
AREA OF VERTICAL METAL CYLINDERS
PROPOSED WETLAND POCKETS APPROX. = 422 m²
LOCATION OF FUTURE LOOKOUT
COLONEL SAMUEL SMITH PARK TRAIL
EXISTING SIGNS TO BE PROTECTED
PROPOSED BERM (600-1000mm Ø ANGULAR STONE PLACEMENT)
Wetland Entrance Elevation: 74.15 m
WETLAND
LAKE ONTARIO
LOG TANGLES TO BE CONSTRUCTED FROM SELECT TREE REMOVALS
EMBEDDED LOG WITH FIELDSTONE AS PER DETAIL 1, SHEET 29
0
15
30
Meters
NOTES:
LEGEND:
ASPHALT
EXISTING TRAIL
EXISTING TREE LINE
EXISTING SIGN
CONSTRUCTION FENCE
EXISTING STONE
EXISTING GRAVEL
PROPOSED GRADING
Toronto and Region Conservation
for The Living City.
Member of Conservation Ontario
Aquafor Beech Limited
COLONEL SAMUAL SMITH PARK
CITY OF TORONTO
GENERAL PLAN - PROPOSED WORKS
EAST WETLAND

Trail Impacts & Timeline

- Will share construction access being used by the major maintenance works
  - During construction of the south cell the adjacent side trail will be closed
- Construction December 2026 to May 2027 for both cells



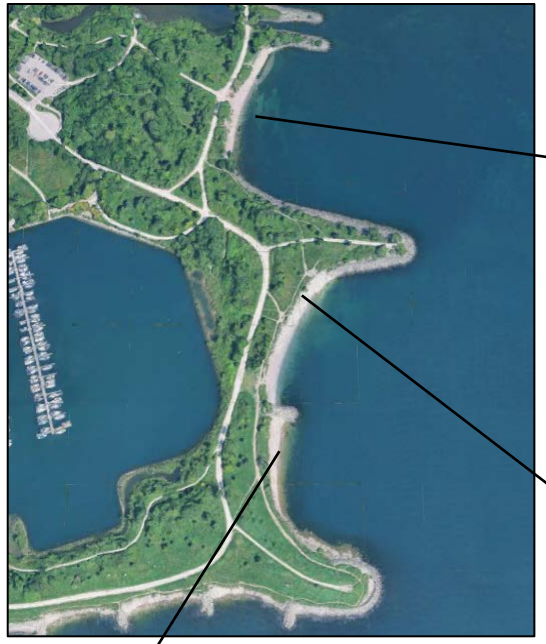
North Wetland Restoration - Unconfirmed Funding or Offset Need

- Wetland restoration to improve climate change resiliency and enhance overall ecological function over a variety of water levels
- A portion of this wetland dries up in low water likely due to sedimentation from upstream.
- Work would include:
  - Removal of accumulated sediment
  - Phragmites management
  - Establishment of more woody structure, native plantings, and habitat features for turtles
  - Installation of a fish gate (to exclude large common carp)
  - Lowering the invert elevation to allow low water levels to enter the wetland

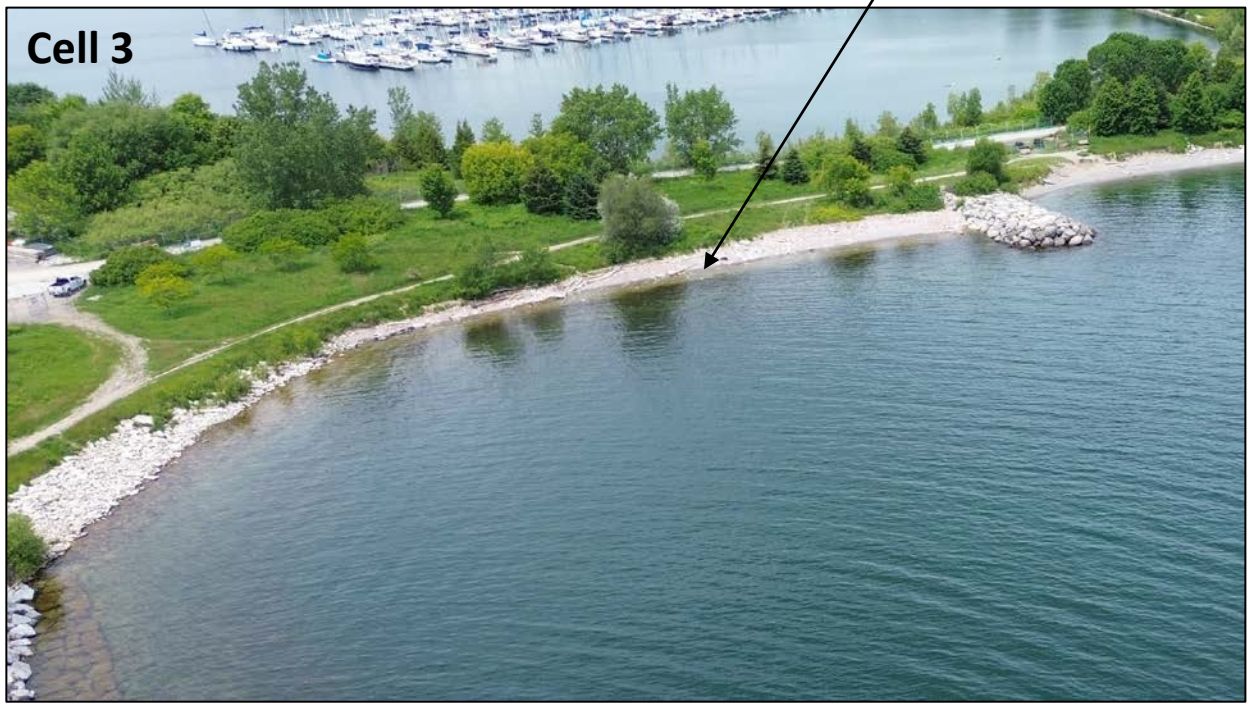


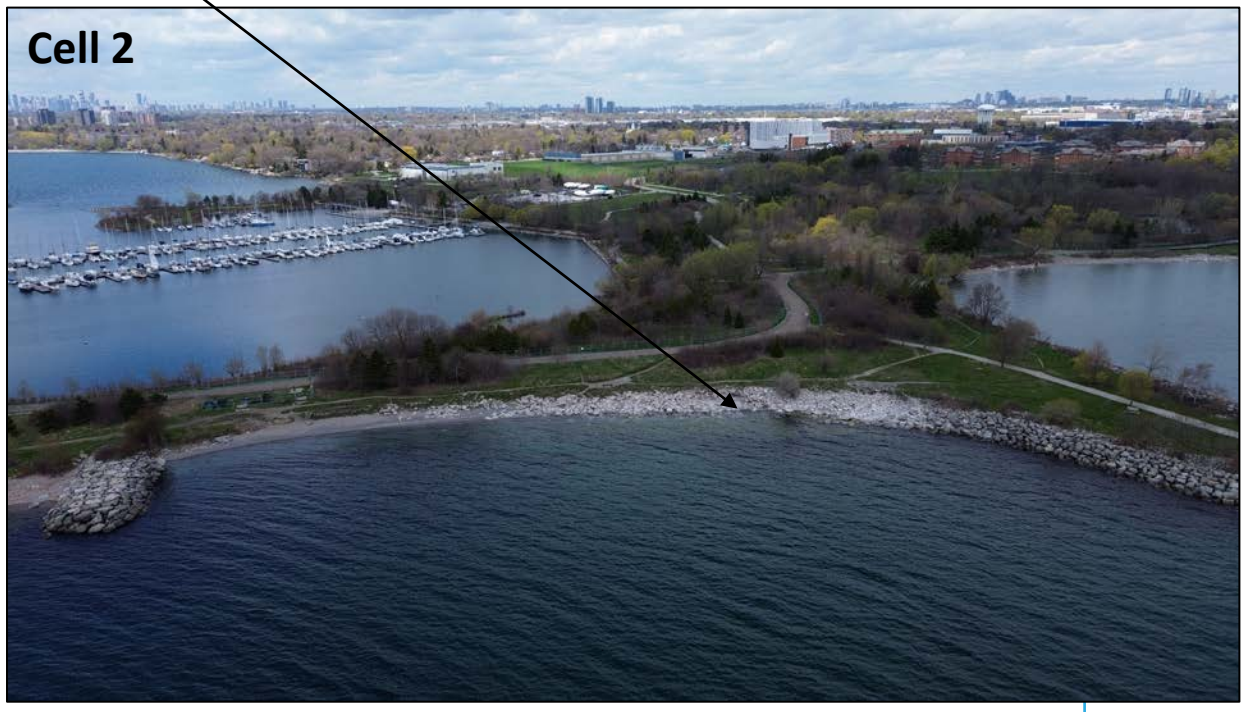
Colonel Sam Smith Major Maintenance - Phase 2

Phase 2 Existing Conditions



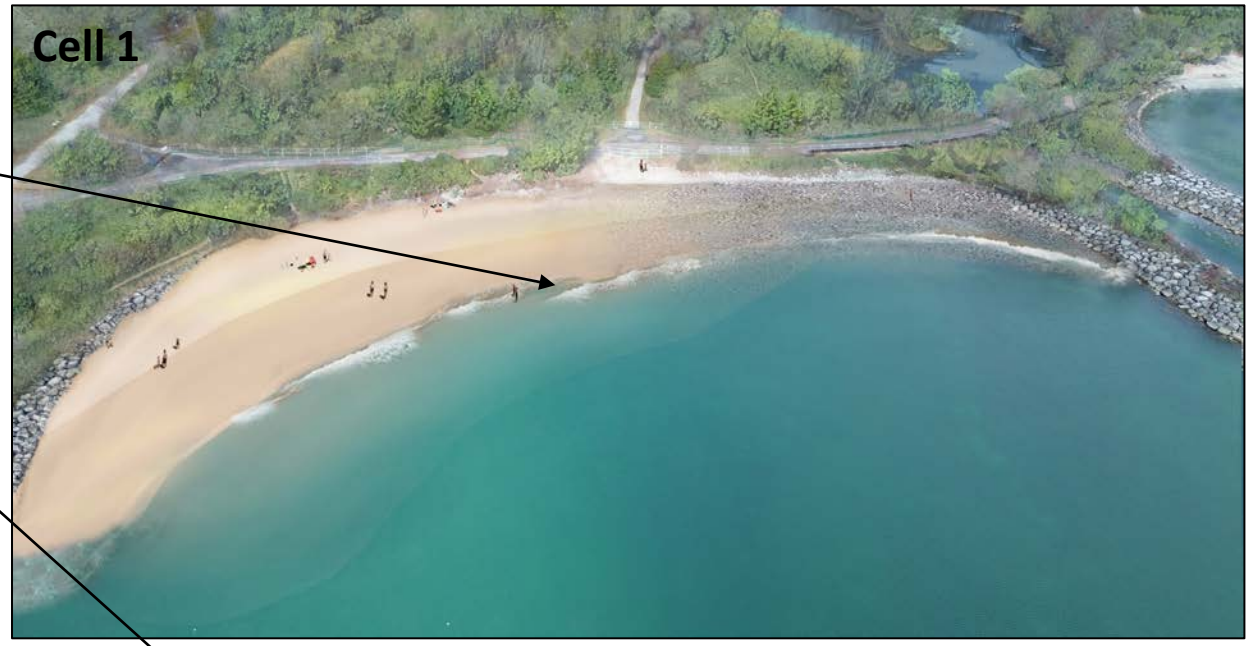




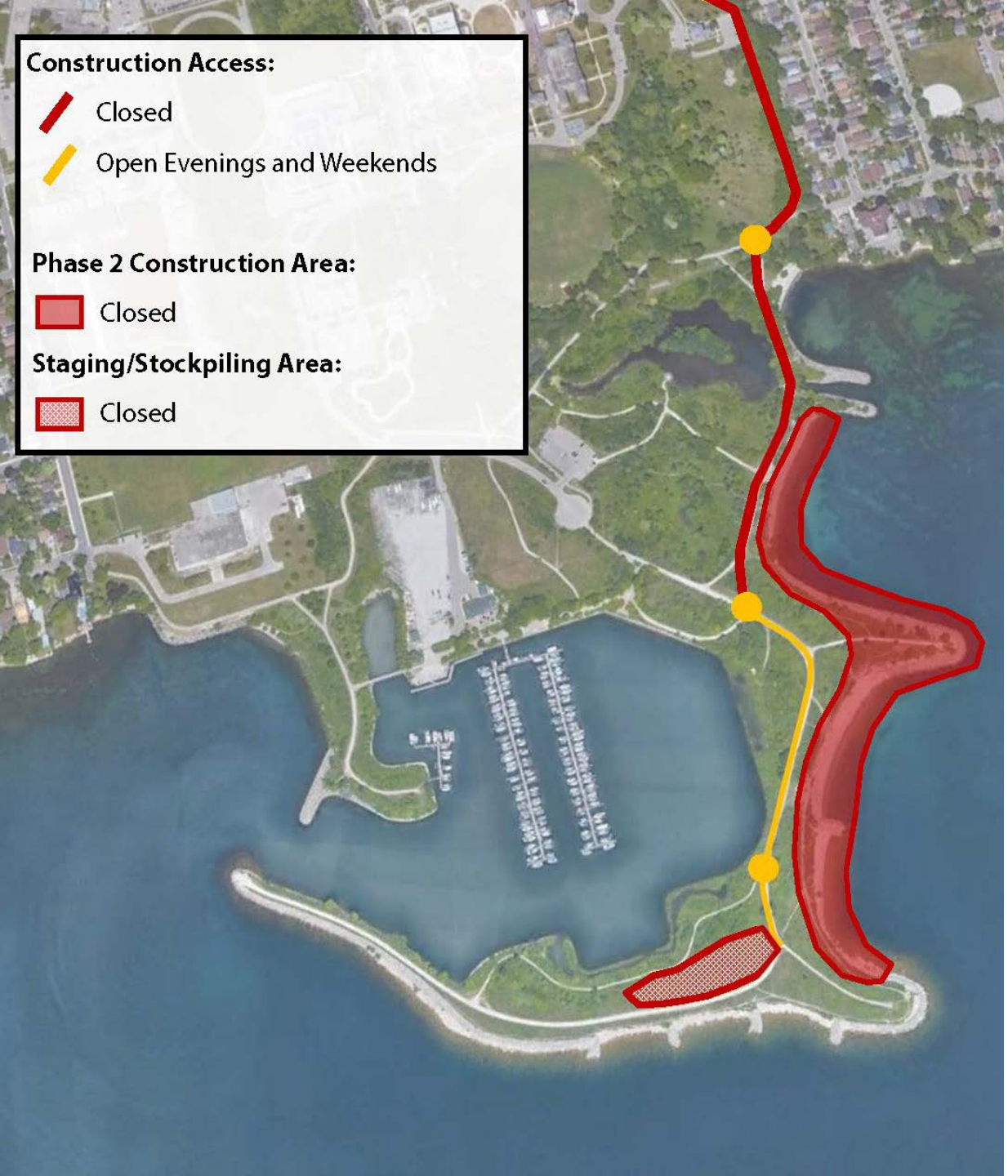


Phase 2 Proposed Solutions









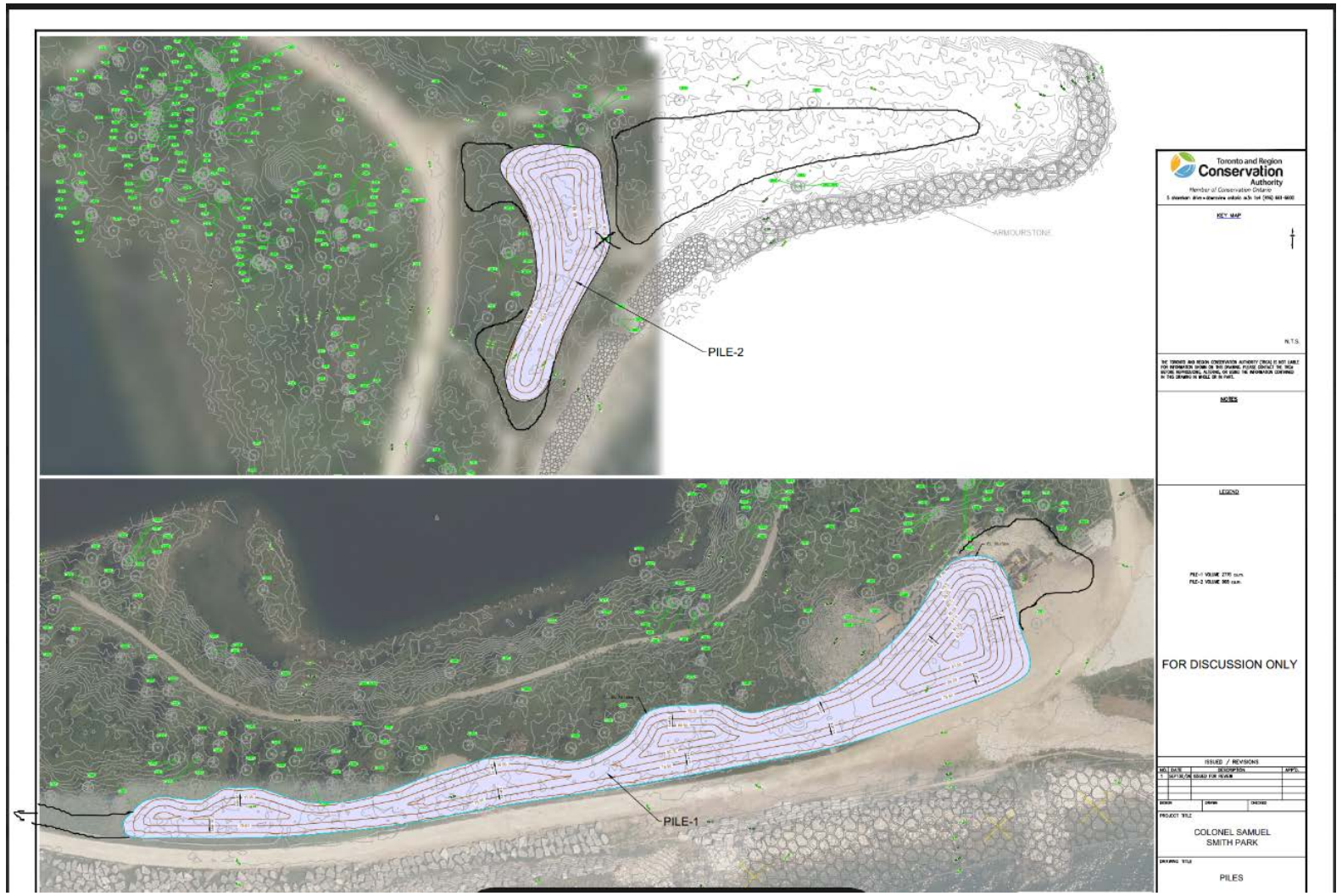
Trail Impacts & Timeline

- Trail impacts will be the same as the Phase 1 works
  - Trail will continue to be opened evenings and weekends at the Waterfront trail crossing and to Whimbrel Point
- Looking into opportunities to open sections of the Phase 2 Area as completed
- Construction 2027-2029

Questions

Toronto and Region Conservation Authority

Cut-Soil Placement Locations for Discussion



- Placement of cut soils from wetland project site can be graded into rolling berms and seeded with native meadow vegetation.
- Trail and viewing options are feasible as well given potential for desire lines to develop
- Final volumes are being calculated