



Taylor Creek Park Management Plan Public Information Session

October 3, 2018

Schollen & Company Inc.
in association with

North-South Environmental Inc.
Lura Consulting Ltd.
Aquafor Beech Ltd.



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Meeting Purpose

- To provide participants with an overview of the management plan process;
- To demonstrate integration with the TMC Sub Watershed Master Plan and the Ravine Strategy; and
- To seek input and feedback on draft management opportunities in the draft management plan.

Agenda

7:00pm - Open House

7:30pm - Introduction

- Welcoming remarks – City of Toronto
- Format, Purpose and Agenda review – Lura Consulting

7:35pm - Overview Presentation and Q&A – Schollen & Company Inc.

- Introduction to Management Plan Area
- Background
- Overview of Management Themes
- Moving Forward – Lura
- Q&A

8:15pm - Station Discussions

9:00pm - Adjourn

Background

The Taylor Massey Creek planning process has been divided into three phases as approved by City Council on July 7, 2015:

- Status Report (report circulated Jan 2016);
- Taylor Massey Creek Sub-Watershed Master Plan Update; and
- **Taylor Creek Park Management Plan**



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Study Context

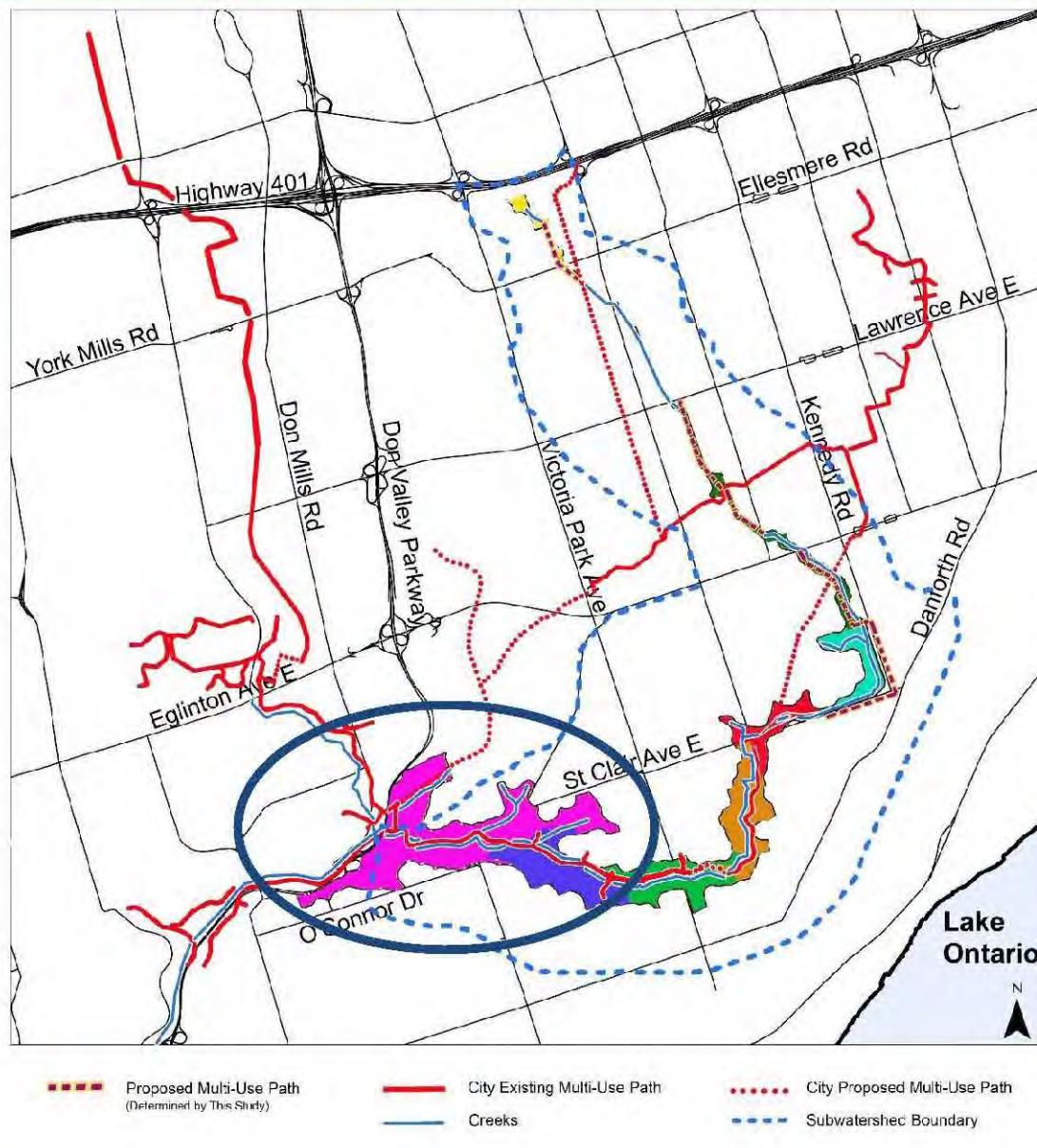
Taylor Creek Park Management Plan
Public Information Session





Subwatershed Context

- 1 WEST TAYLOR CREEK**
Use Driver: Access and Safety
Ecological Driver: Riparian Enhancement and Mitigation of Trail Impacts
Creek Health Driver: Water Quality and Flood Control
- 2 TAYLOR CREEK ESA**
Use Driver: Trail Use/ Proliferation Management
Ecological Driver: ESA Protection and Enhancement
Creek Health Driver: Bank Stabilization and CSO Removal
- 3 EAST TAYLOR CREEK**
Use Driver: Manage Trail Proliferation
Ecological Driver: ESA Expansion/ Buffer and Protection of Wetland Features
Creek Health Driver: Bank Stabilization
- 4 WARDEN WOODS ESA**
Use Driver: Simplification of Trail Route
Ecological Driver: Natural Heritage Protection
Creek Health Driver: Flood Storage Enhancement and CSO Removal
- 5 ST CLAIR RAVINE PARK**
Use Driver: Trail Linkage Across Metrolinx Corridor
Ecological Driver: Restoration Plantings
Creek Health Driver: Flood Storage Enhancement
- 6 PINE HILLS CEMETERY**
Use Driver: Negotiated Trail Access
Ecological Driver: Woodlot Protection and Ecological Corridor Enhancement
Creek Health Driver: Debris Removal and Soft Bank Stabilization
- 7 LAWRENCE AVE. TO FARLINGER RAVINE**
Use Driver: Address Various Crossings and Trail Linkages
Ecological Driver: Enhancement of Ecological Nodes and Strengthening of Ecological Connections
Creek Health Driver: Water Quality Enhancements/ Bio-engineering
- 8 TERRAVIEW PARK to MANHATTAN PARK**
Use Driver: North-South Trail Linkage
Ecological Driver: Ecological Linkages Along Corridor
Creek Health Driver: Water Quality Enhancements/ Bio-engineering

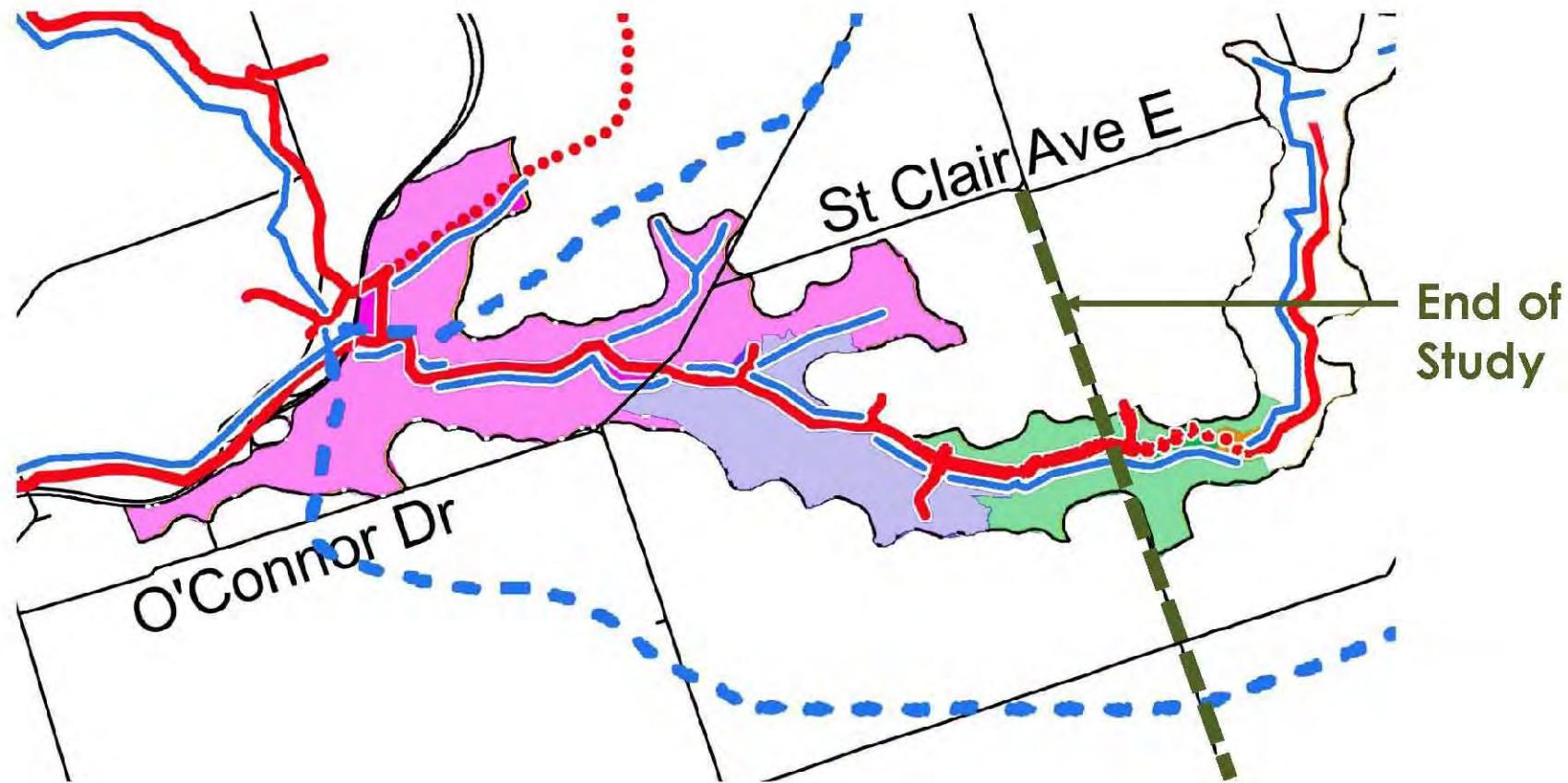
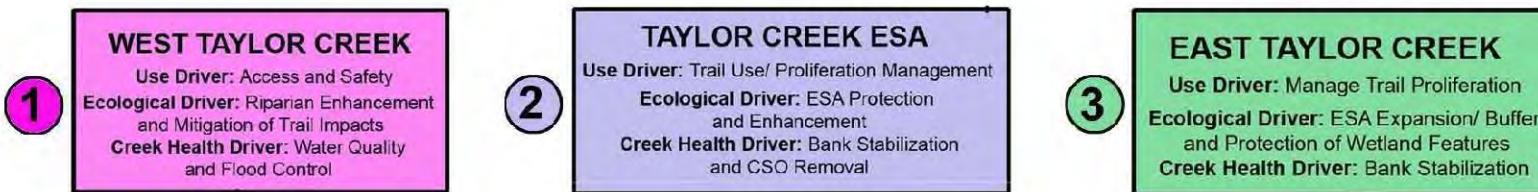


Subwatershed Plan Principles

Principles that guided the Master Plan:

- 1. Natural Heritage** – Conserve, protect and enhance natural features and functions within the ravine environment.
- 2. Cultural Heritage** – Consider the cultural heritage features of the site as well as archaeological potential.
- 3. Experience** – Celebrate and interpret the unique qualities of the natural and semi-natural spaces within the subwatershed.
- 4. Context** – Connectivity of all systems to the wider ravine and open space system.

Study Area Context



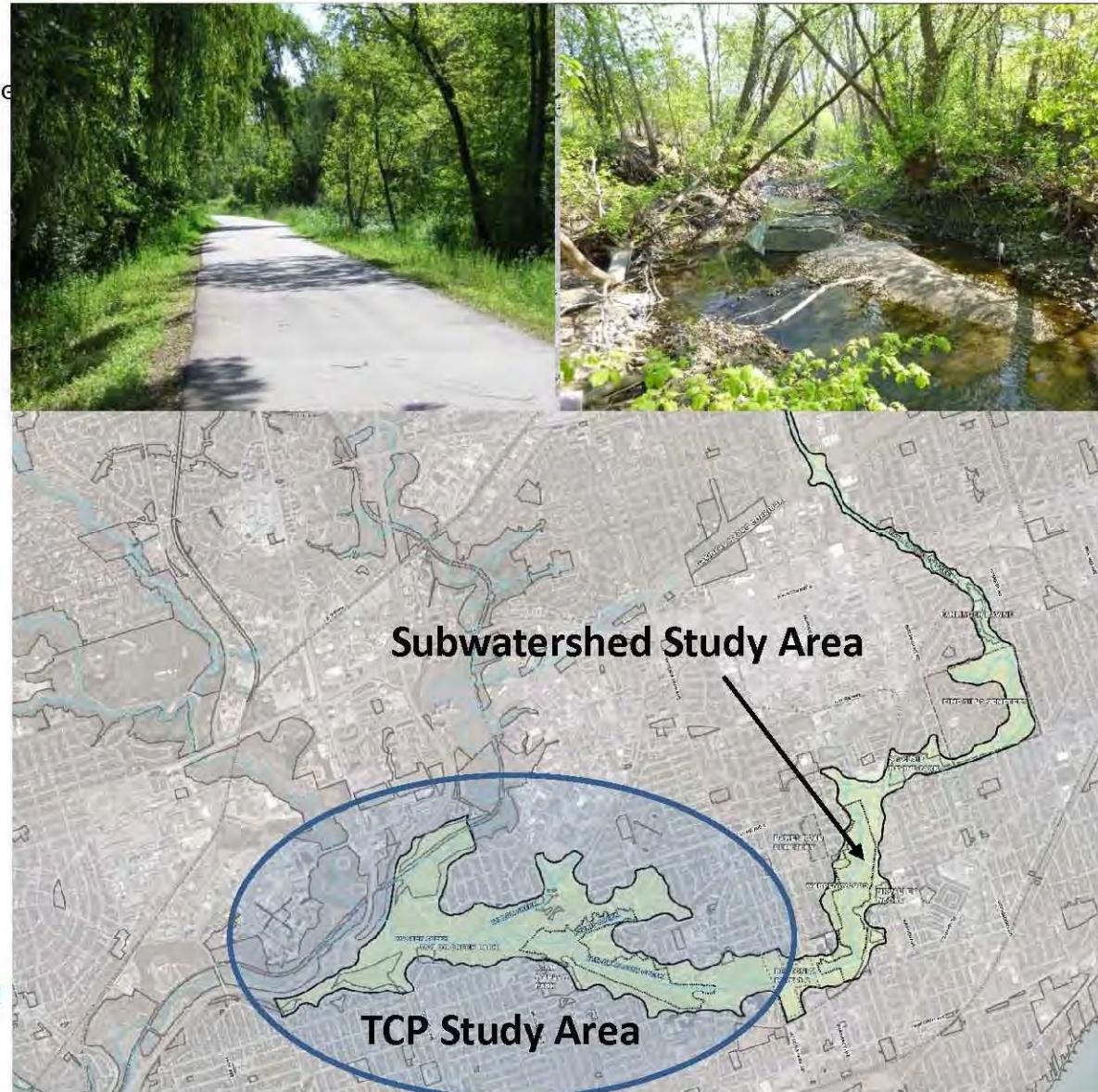
Study Area Characterization

Taylor Creek Park:

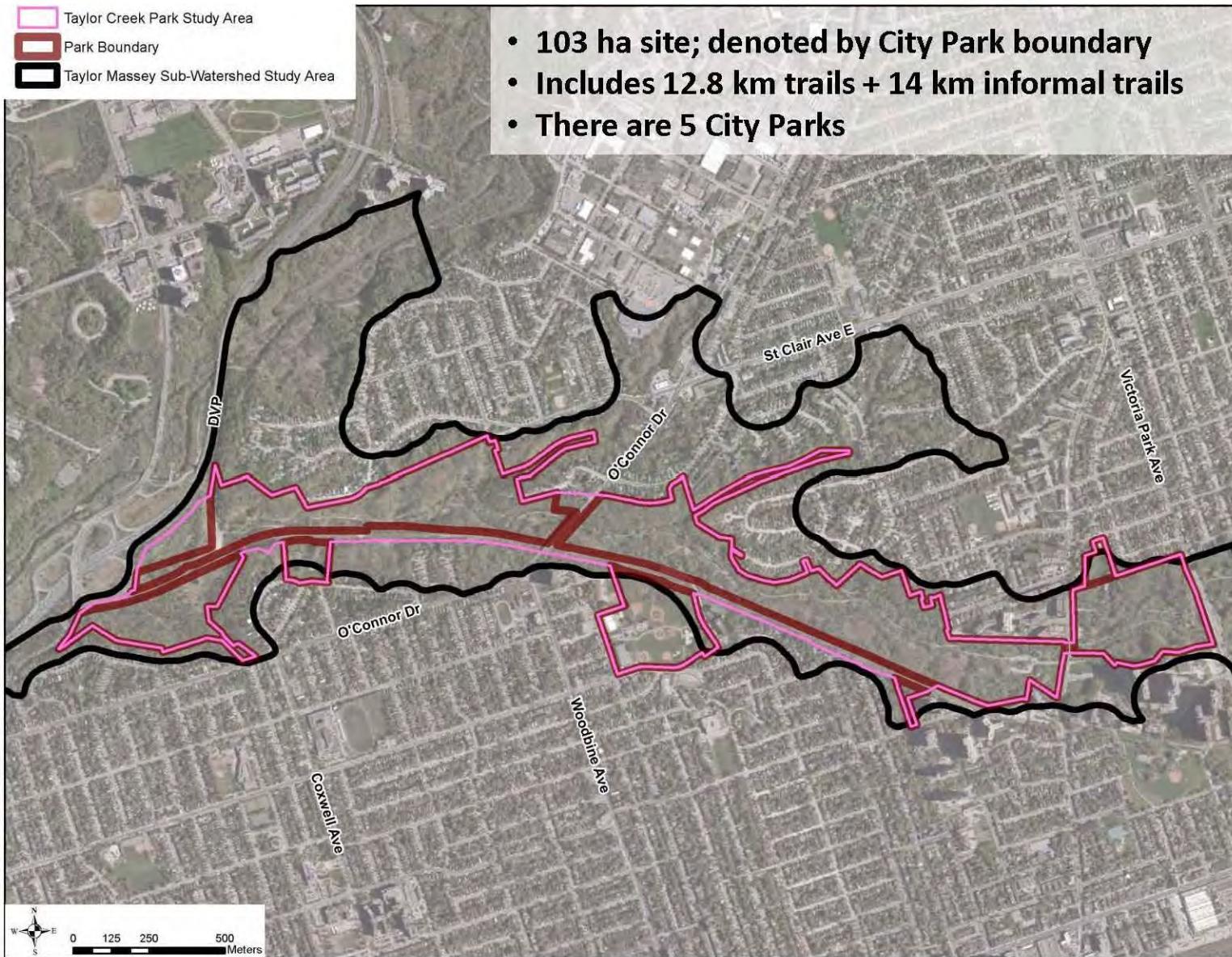
- Four kilometers in length
- Broad and high-use greenspace
- Creek is “flashy” through park
- Meets up with the Don River
- Multiple paths, erosion sites.
- More diversity of landscape types e.g. meadow, swamp, thicket, bottomlands and pocket wetlands.



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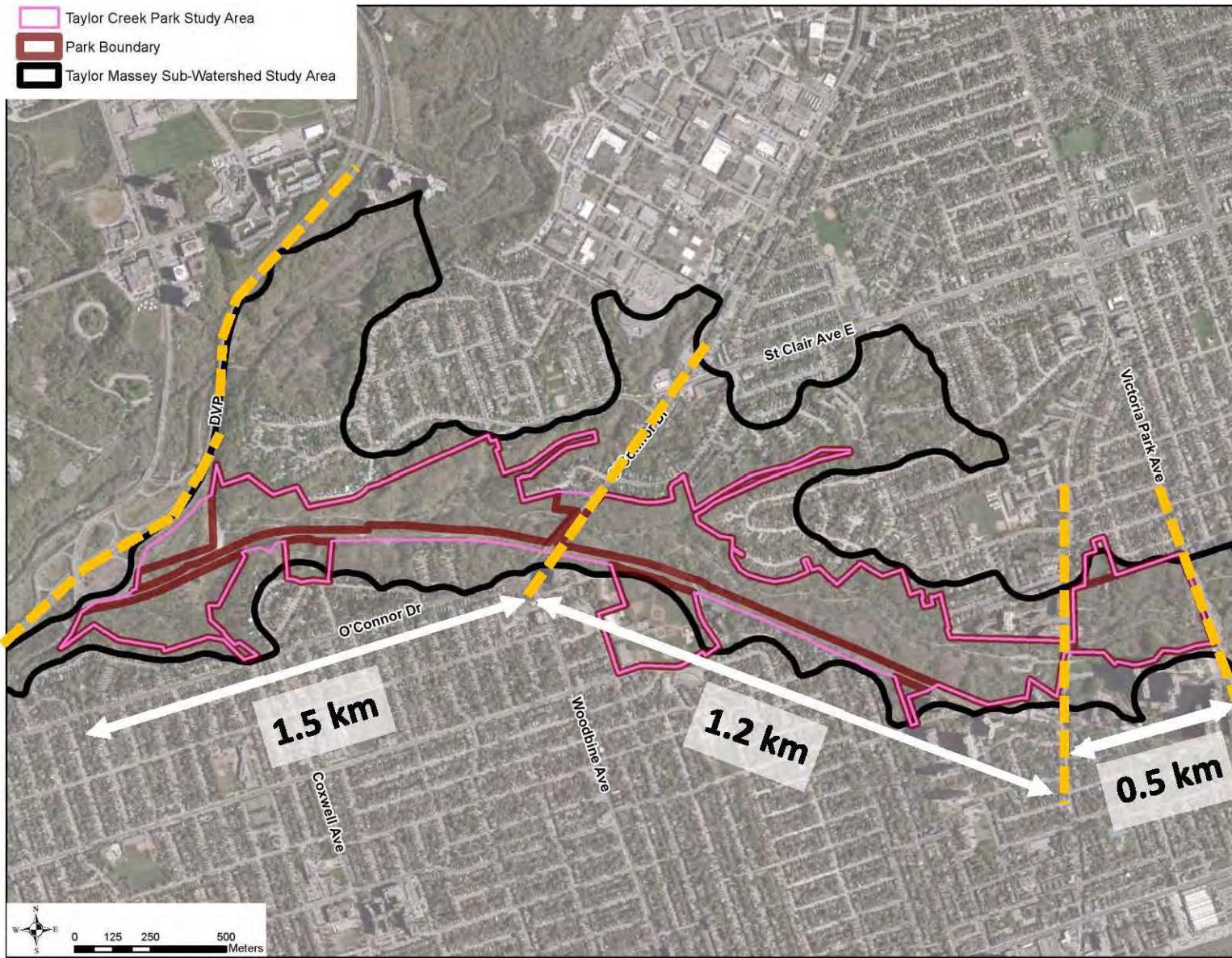
Study Area



Study Area



Study Area





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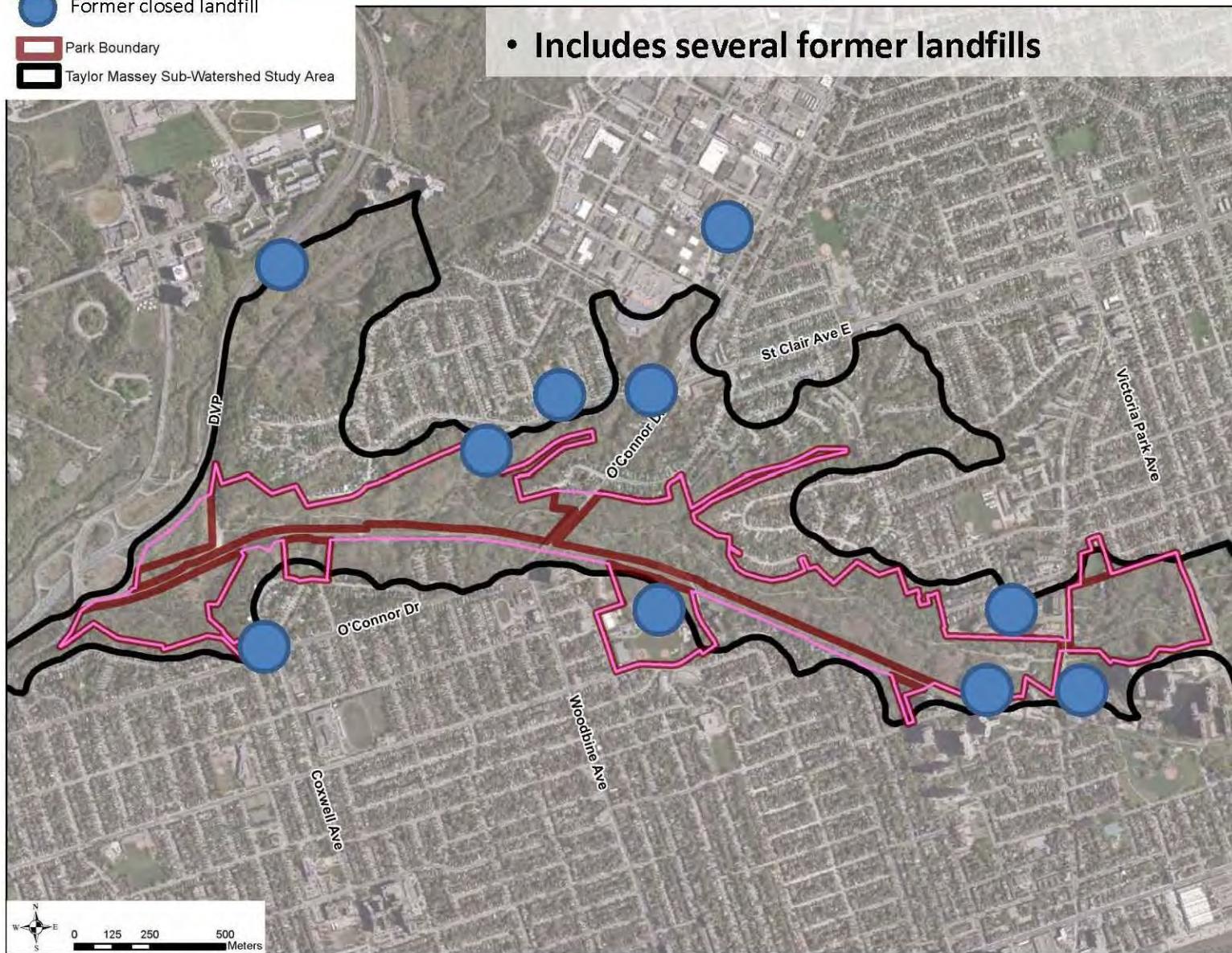
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Landfill Sites

- Former closed landfill
- Park Boundary
- Taylor Massey Sub-Watershed Study Area

• Includes several former landfills



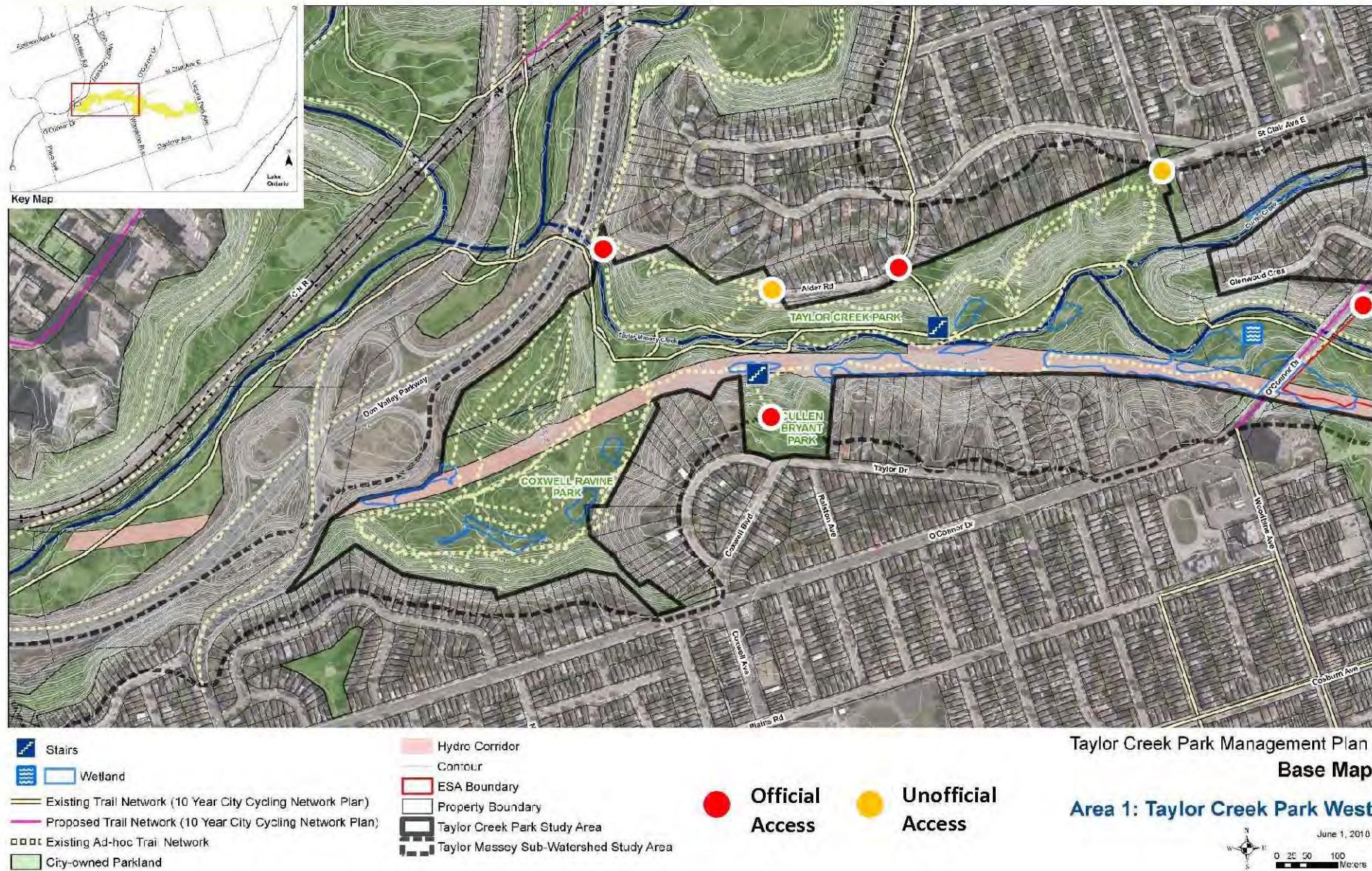
Site Analysis



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Base Plan



Base Plan



- Trail Upgrade 2018
- Newly Paved Road
- Existing Trail Network (10 Year City Cycling Network Plan)
- Proposed Trail Network (10 Year City Cycling Network Plan)
- Existing Ad-hoc Trail

- Dog Park
- Children's Peace Theatre
- P Parking
- Stairs
- Washroom
- Wetland

- ESA Boundary
- Hydro Corridor
- City-owned Parkland
- Contour
- Permanent Easement - No Management Agreement
- Property Boundary

● Official
Access

● Unofficial
Access

Taylor Creek Park Management Plan
Base Map

Area 2: Taylor Creek Park East

June 1, 2010

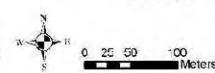


Canopy + Open Space



- | | |
|-------------------------------------|--|
| Tree Canopy (74% of Study Area) | Existing Trail Network (10 Year City Cycling Network Plan) |
| Non-Tree Canopy (25% of Study Area) | Proposed Trail Network (10 Year City Cycling Network Plan) |
| TRCA Natural Cover 2017 | Existing Ad-hoc Trail Network |
| Meadow | ESA Boundary |
| Successional | Hydro Corridor |
| Wetland | Taylor Creek Park Study Area |
| | Taylor Massey Sub-Watershed Study Area |

Source: Canopy Cover from City of Toronto (2007)
 Natural Cover from TRCA (2017)



Area 1

Canopy + Open Space



Tree Canopy (74% of Study Area)

Non-Tree Canopy (25% of Study Area)

TRCA Natural Cover 2017

Meadow

Successional

Wetland

Trail Upgrade 2018

Existing Trail Network (10 Year City Cycling Network Plan)

Proposed Trail Network (10 Year City Cycling Network Plan)

Existing Ad-hoc Trail Network

ESA Boundary

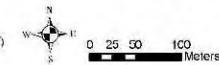
Hydro Corridor

Taylor Creek Park Study Area

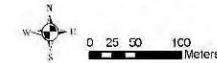
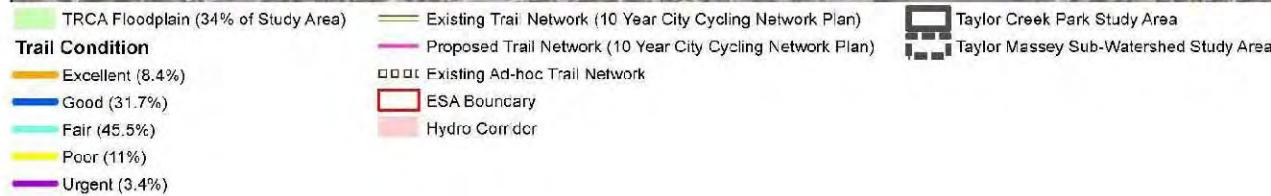
Taylor Massey Sub-Watershed Study Area

Area 2

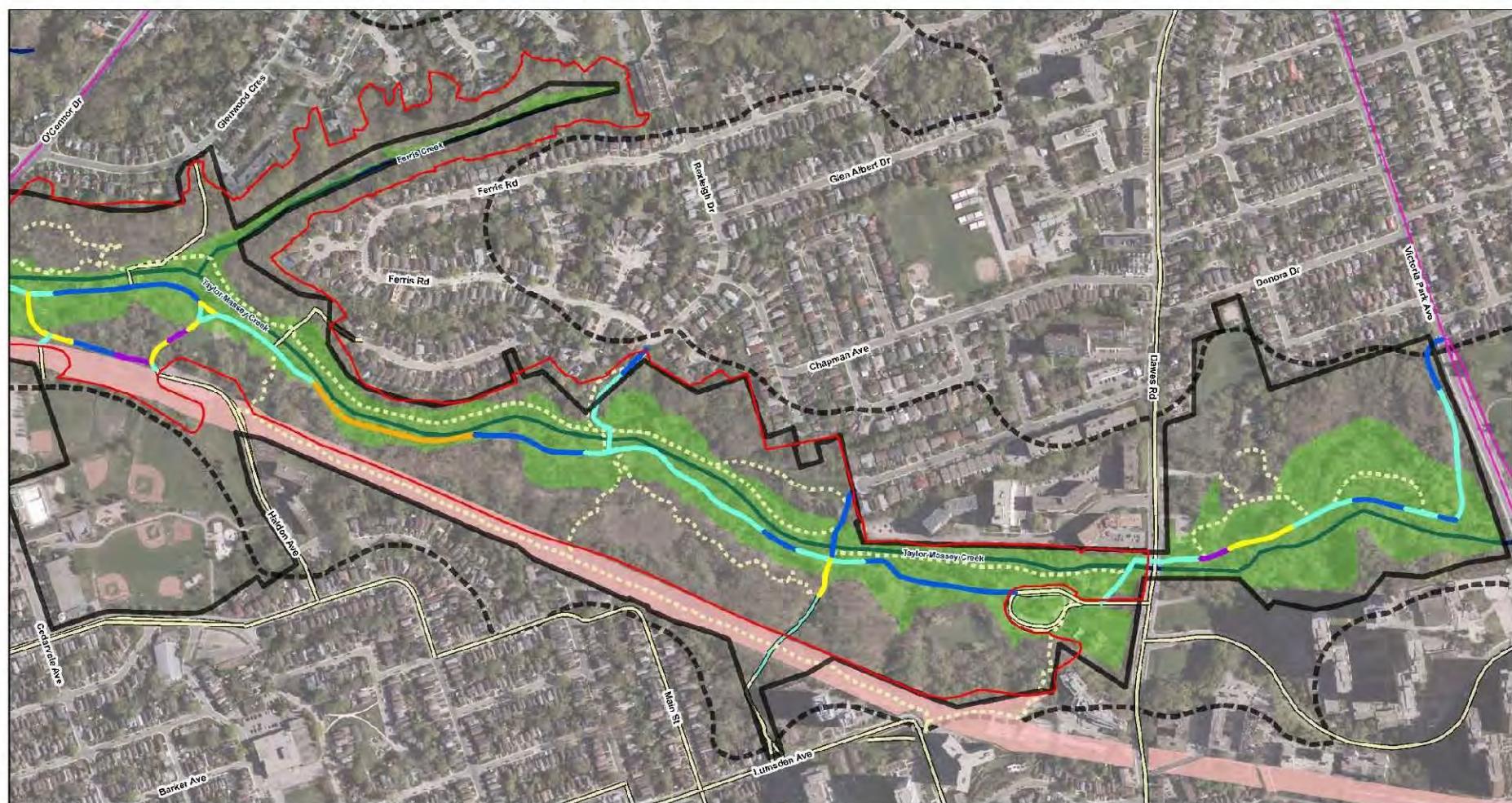
Source: Canopy Cover from City of Toronto (2007)
 Natural Cover from TRCA (2017)



Floodplain + Trails Conditions

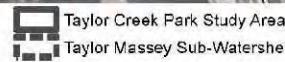


Floodplain + Trails Conditions



TRCA Floodplain (34% of Study Area)

Trail Upgrade 2018



Trail Condition

- | |
|------------------|
| Excellent (8.4%) |
| Good (31.7%) |
| Fair (45.5%) |
| Poor (11%) |
| Urgent (3.4%) |

Existing Trail Network (10 Year City Cycling Network Plan)

Proposed Trail Network (10 Year City Cycling Network Plan)

Existing Ad-hoc Trail Network

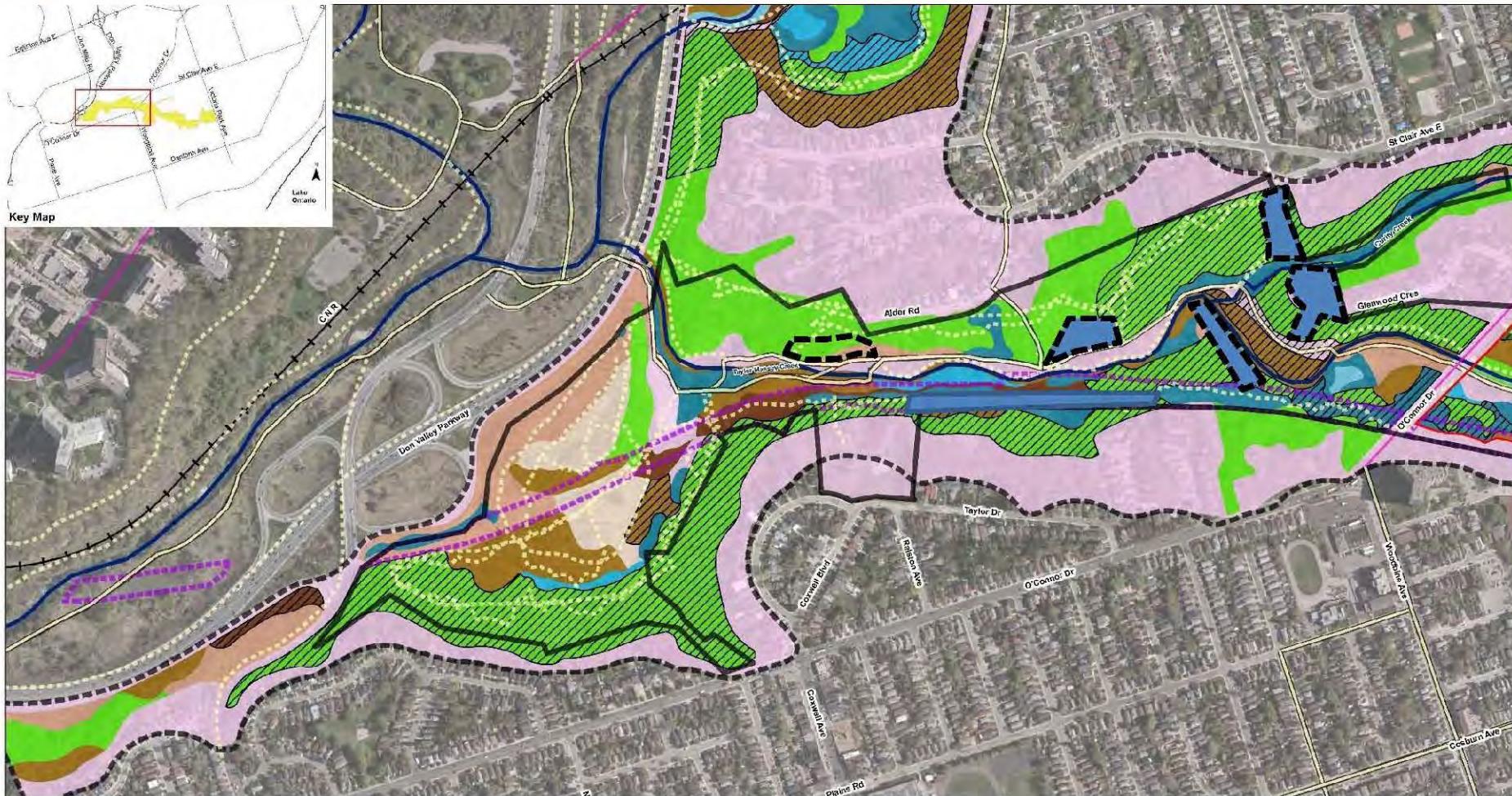
ESA Boundary

Hydro Corridor

Area 2



ELC + Ecological Sensitivity



ELC

Anthropogenic	Forest
Cultural Savannah	Plantation
Cultural Meadow	Marsh
Cultural Woodland	Swamp
Cultural Thicket	Aquatic

 Areas of Moderate Sensitivity
 Existing Trail Network (10 Year City Cycling Network Plan)
 Proposed Network as per 10 Year Cycling Network Plan
 Existing Ad-hoc Trail Network
 Hydro Corridor
 ESA Boundary

 Areas of Moderate Sensitivity
 Existing Trail Network (10 Year City Cycling Network Plan)
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 ESA Boundary

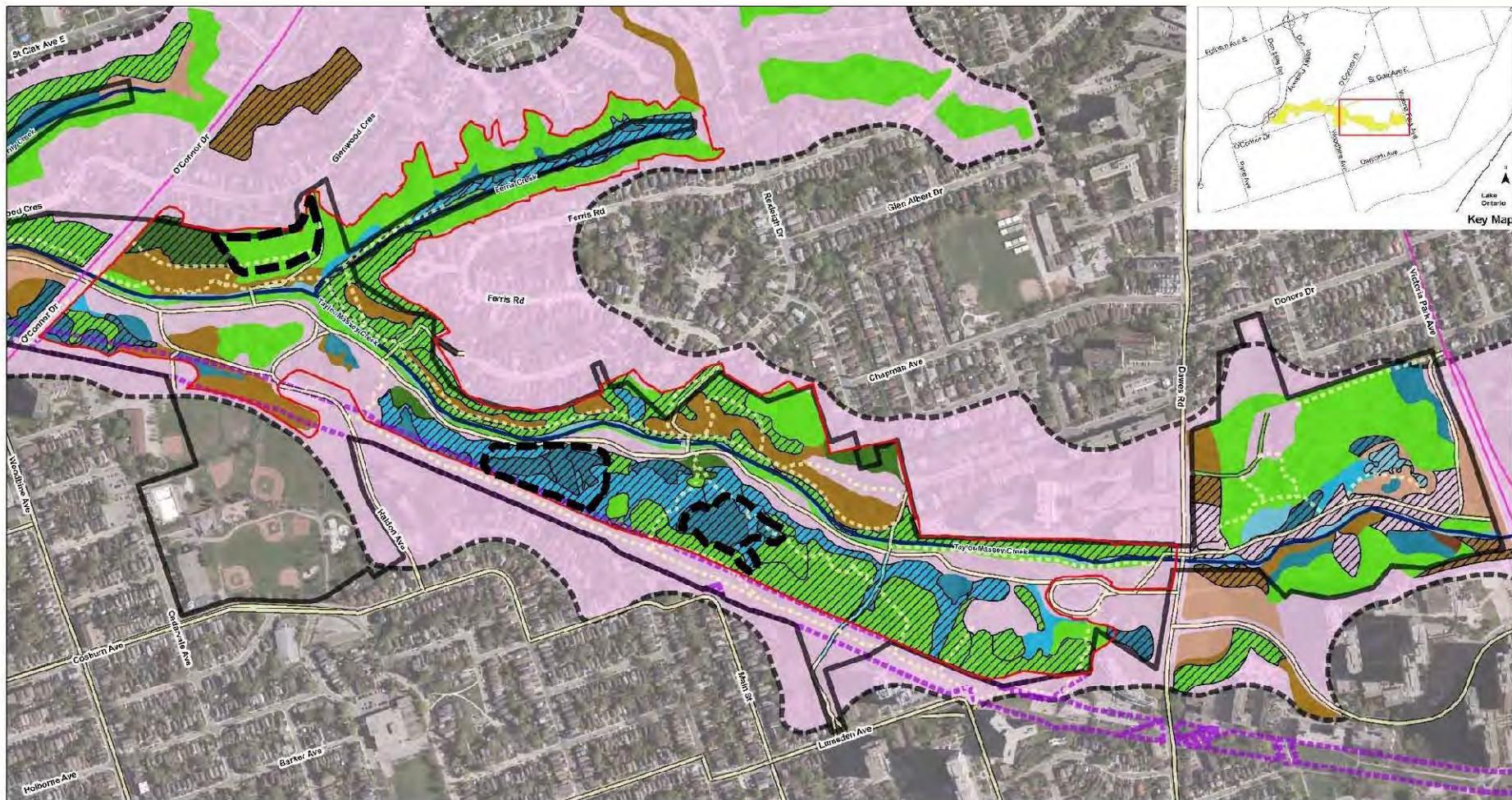
 Areas of Highest Sensitivity
 Taylor Creek Park Study Area
 Taylor Massey Sub-Watershed Study Area

Taylor Creek Park Management Plan
ELC and Sensitivity Zones

Area 1: Taylor Creek Park West


 September 25, 2016
 0 25 50 100 Meters

ELC + Ecological Sensitivity



ELC

Anthropogenic	Areas of Moderate Sensitivity
Cultural Savannah	Hydro Corridor
Cultural Meadow	Taylor Creek Park Study Area
Cultural Woodland	Taylor Massey Sub-Watershed Study Area
Cultural Thicket	
Forest	
Plantation	
Marsh	
Swamp	
Aquatic	

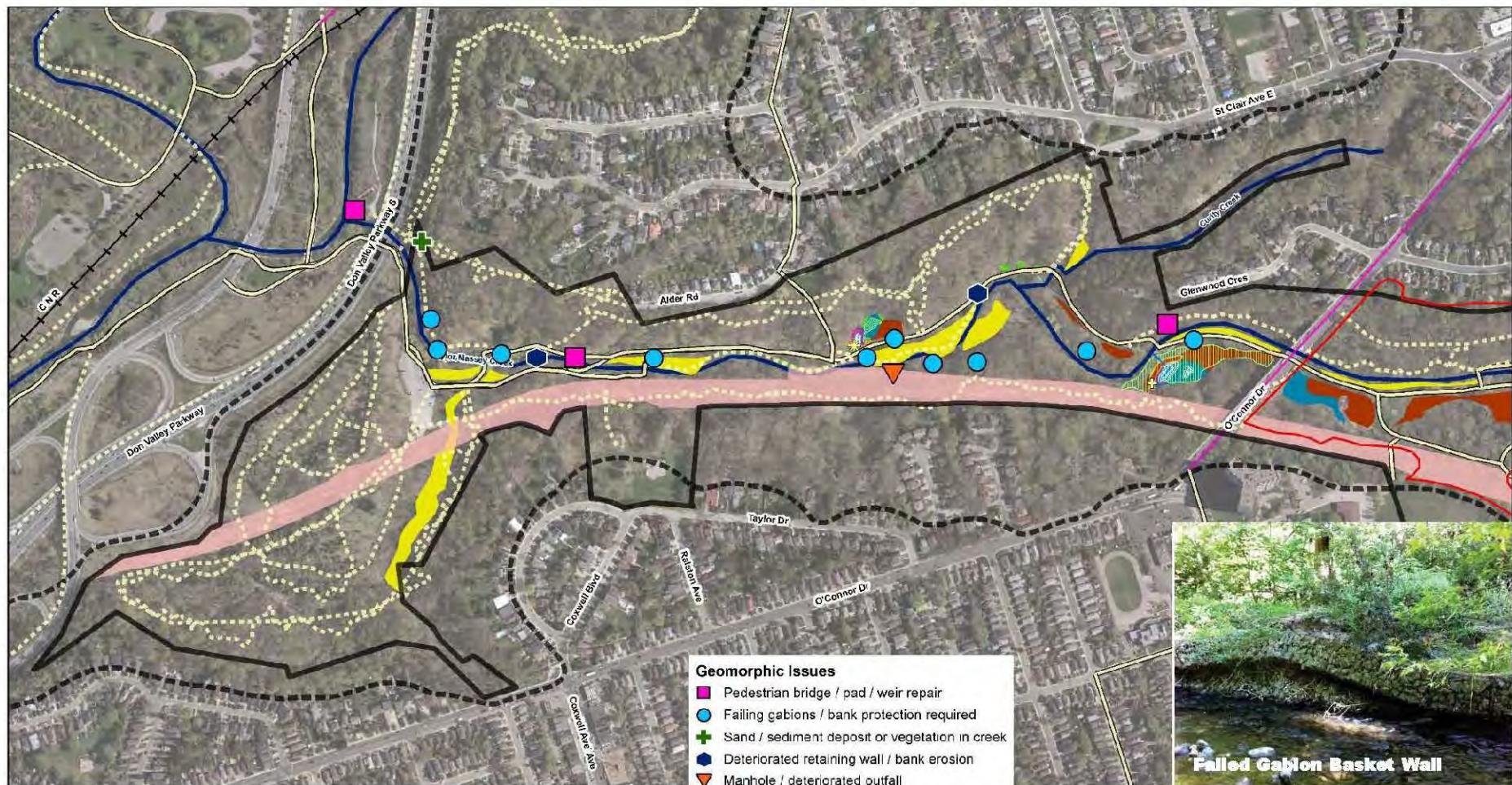
Legend:

- Areas of Moderate Sensitivity
- Hydro Corridor
- Taylor Creek Park Study Area
- Taylor Massey Sub-Watershed Study Area
- Proposed Network as per 10 Year Cycling Network Plan
- Existing Ad-hoc Trail Network
- Newly Paved Road 2018
- Existing Trail Network (10 Year City Cycling Network Plan)
- Rail Upgrade 2018

Areas of Highest Sensitivity

**Taylor Creek Park Management Plan
ELC and Sensitivity Zones**
Area 2: Taylor Creek Park East

Geomorphology + Restoration



Failed Gabion Basket Wall

Wetland Restoration Project
 (Completed 2011)

- 200mm culvert (to be removed)
- Control berm
- Deep pocket
- Emergent area
- + Invert/spillway
- Planting

Wetland Restoration Project
 (Completed 2012)

- Control Berm
- Deep (submergent) Area
- Invert/Spillway
- Shallow (emergent) Area
- Tree & Shrub Planting

Planting Implementation
 Projects (Completed 2012)

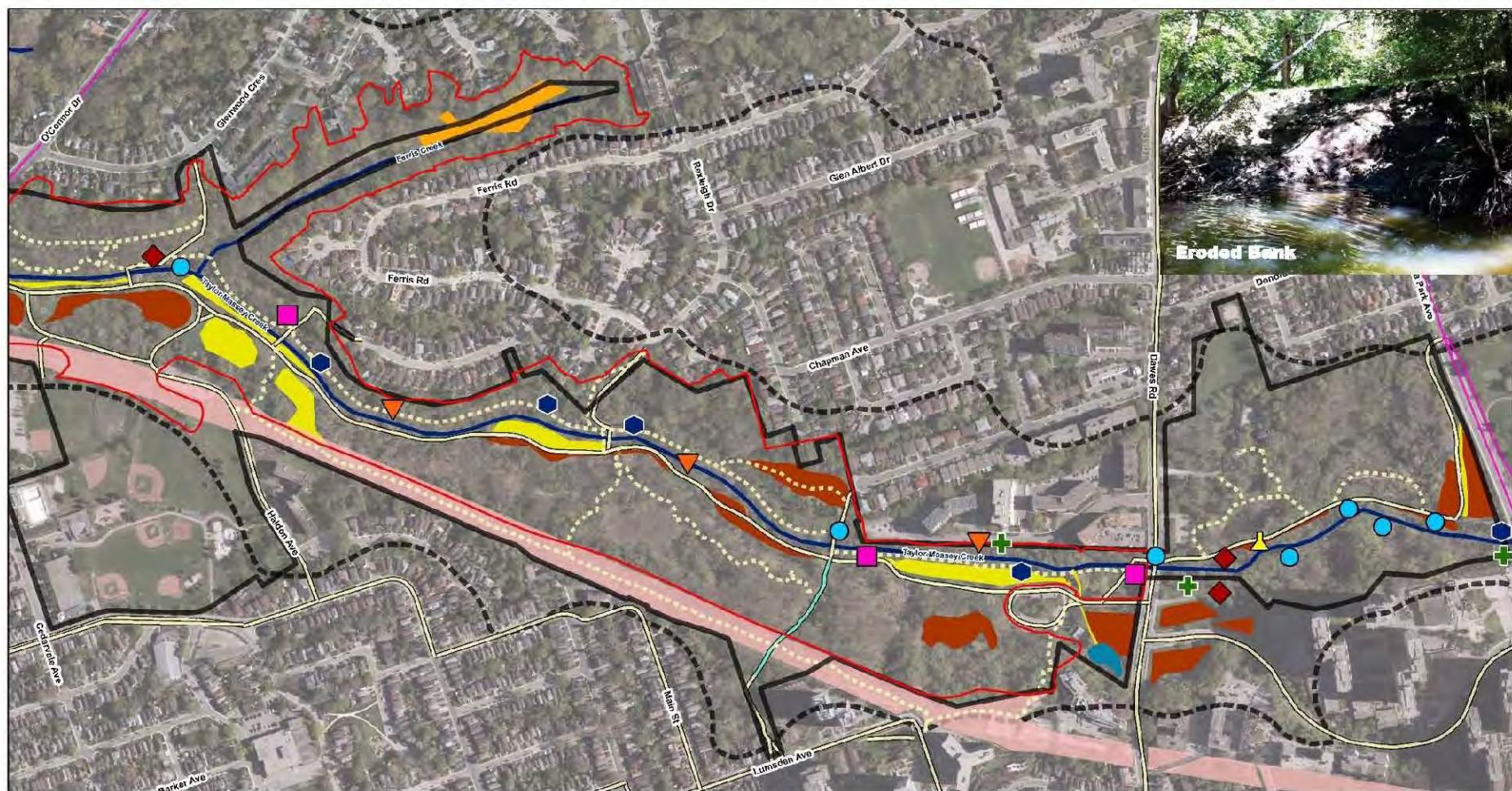
- Forest
- Riparian
- Wetland

Potential Opportunities for
Restoration

- Existing Trail Network (10 Year City Cycling Network Plan)
- Proposed Trail Network (10 Year City Cycling Network Plan)
- Existing Ad-hoc Trail Network
- ESA Boundary
- Hydro Corridor

Area 1

Geomorphology + Restoration



Potential Opportunities for Restoration

- Forest
- Forest (Forest Enhancement Opportunity)
- Riparian
- Wetland

Geomorphic Issues:

- Pedestrian bridge / pad / weir repair
- Failing gabions / bank protection required
- Exposed pipe / culvert / sanitary sewer
- Sand / sediment deposit or vegetation in creek
- Deteriorated retaining wall / bank erosion
- Manhole / deteriorated cutoff
- Other

Trail Upgrade 2018

- Existing Trail Network (10 Year City Cycling Network Plan)
- Proposed Trail Network (10 Year City Cycling Network Plan)

Existing Ad-hoc Trail Network

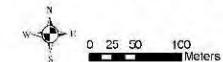
ESA Boundary

Hydro Corridor

Taylor Creek Park Study Area

Taylor Massey Sub-Watershed Study Area

Area 2



Archaeological Potential



Archaeological Potential

- [Yellow Box] Areas Requiring Stage 2 Assessment
- [Red Box] Areas of No Potential
- [Purple Box] Area Previously Assessed by ARMS
- [Hatched Box] No Potential According to Archaeological Management Plan
- [Blue Box] Taylor Massey Creek
- [Dashed Line] Sewer Line

0 0.5 1 KM

Scale(1:13,000)



Taylor-Massey Creek EA - Archaeological Assessment Stage 1, July 2014



The Massey Estate



Natural Heritage:

- 40 % of study area wet areas; 74 % - forested
- Sites with highest sensitivity require buffers for protection

Flood Management and Creek Stability:

- Rehabilitate eroded sections of creek to mitigate further stream bank and bed erosion, protect infrastructure, and improve aquatic ecological conditions

Restoration:

- Coordinate restoration sites between City and TRCA/ planned capital works
- Monitor for opportunity sites annually in relation to storm damage

Trails and Access:

- Safety, circulation and condition of multi-use trails i.e. icing
- Compatibility of permitted uses upon sensitive environmental features

Cultural Heritage:

- Goulding Estate, Dentonia Farm Park and areas of archaeological interest

Management Criteria

**Taylor Creek Park Management Plan
Public Information Session**



Management Criteria

5 INTERFACE

Access | Way Finding | Integration Into City

4 EXPERIENCE

Stewardship | Design Quality | Art | Beauty | Education | Interpretation | Culture

3 PARKS AND OPEN SPACES

Spaces + Facilities for Human Use and Enjoyment | Managed by PFR

2 INFRASTRUCTURE

Rail + Hydro | Trails | Bridges | Roads | Water, Sewer, Oil + Gas Pipelines

1 FOUNDATION

Natural Environment Terrestrial + Aquatic Habitat | Stable | Resilient
Ecologically Diverse

MANAGEMENT PLAN CRITERIA

A) NATURAL SYSTEMS

1. Protects best quality habitat and features ①
2. Reduces fragmentation/ establishes reconnected system ①

B) GREEK HEALTH AND STORMWATER MANAGEMENT

1. Improves flood storage, attenuation or water quality ②
2. Improves bank/ slope stability ①

C) TRAILS, RECREATION AND CULTURAL HERITAGE

1. Contributes to a connected trail system (continuous through ravine, connecting neighbourhoods and links to transit) ③ ② ⑤
2. Affords a variety of experiences ③ ④



Engagement Process

Taylor Creek Park Management Plan
Public Information Session



Engagement Strategy

Following Ravine Strategy Model of Engagement:



Engagement Strategy

Engagement Activities:

- Stakeholder Meetings – 3/4;
- Pop-ups – 2/2;
- Guided and Self Guided Tours – tied to pop-ups 1/1;
- Online Survey – 1/2;
- Public Meeting – 1/1;
- Project Website - ongoing; and
- Social Media - ongoing.

Pop Ups



Friday July 27, 2018 - 3 - 6 pm – 65 people
Saturday July 28, 2018 - 10 – 1pm – 95 people
North of Stan Wadlow Park on the Taylor Creek Trail

**Taylor Creek Park Management Plan
Public Information Session**

The official logo of the City of Toronto, featuring a stylized blue skyline icon followed by the word 'TORONTO' in a bold, blue, sans-serif font.



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Social PinPoint



Idea(s) for improving the environment.



Idea(s) for improving the creeks and wetlands.



Idea(s) for improving trails.



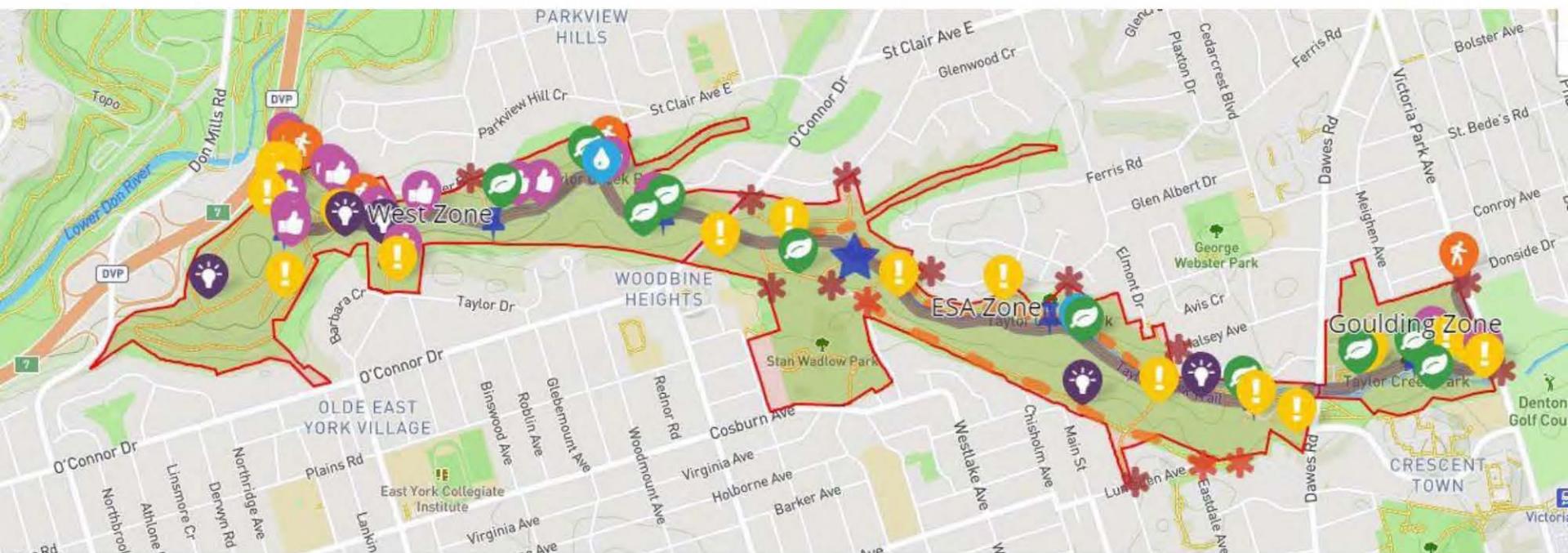
Idea(s) for how you would like to use the park.



Issues within the park.



Your favourite places in the Park.



**Taylor Creek Park Management Plan
Public Information Session**



Summary of Input

Total Suggested Opportunities to Date (combined all input):

- Ecology and Natural Systems – 32
- Trails, Recreation, and Cultural Heritage – 66
- Creek Health and Stormwater Management – 13
- General Public Use and Maintenance – 8

Total - 119



Themed Opportunities

CODE	POTENTIAL OPPORTUNITIES	Protects best habitats, features and functions	Reduces fragmentation/ establishes re-connected	Affords flood storage, attenuation or water	Affords bank/ slope stability	Contributes to a connected trail system	Affords a variety of experiences
Ecology and Natural Systems (15 opportunities)							
ENS-1	Provide habitat enhancement throughout Coxwell Ravine Park, address trail proliferation and address river bank safety issues.						
ENS-2	Acquire the lands East of Dawes Road for public use (e.g. restoration planting, trail construction, community garden etc.)						
ENS-3/6	Address invasive species by the Rexleigh Drive access point.						
ENS-4	Protect sensitive species in close proximity to permitted use areas (e.g. fire pits, washrooms, trails).						
ENS-5	Extend urban 'meadoway' concept (https://themeadoway.ca/) through the Hydro One corridor. Address invasive species and formalize existing informal trails.						
ENS-7	Manage tree hazards along trails with a "tree hazard abatement program" throughout the park.						

Themed Opportunities

CODE	POTENTIAL OPPORTUNITIES	Protects best habitats, features and functions	Reduces fragmentation/ establishes re-connected system	Improves flood storage, attenuation or water quality	Improves bank/ slope stability	Contributes to a connected trail system	Affords a variety of experiences
Trails, Recreation, and Cultural Heritage (19 opportunities)							
TRC -1/2	Upgrade trail construction in all flood prone areas and at seepage sites to enable subsurface cross flows.						
TRC-3/12	Improve safety and circulation on multi-use trails.						
TRC-4	Either sanction (and maintain) or close the informal trail on the north side of the creek.						
TRC-5	Improve trail links into adjoining City cycling network trails.						
TRC-6	Construct an accessible trail across Victoria Park to connect to the future trail on the east side of the road.						
TRC-7	Upgrade, relocate, or consolidate Coxwell Ravine Park trails where required.						
TRC-8	Redesign the entry point off Halsey Avenue to distinguish from private property, prevent vehicular access and address graffiti.						
TRC-9	Improve paved trail maintenance and lifespan by developing an updated maintenance plan.						

Themed Opportunities

CODE	POTENTIAL OPPORTUNITIES	Protects best habitats, features and functions	Reduces fragmentation/ establishes re-connected system	Improves flood storage, attenuation or water quality	Improves bank/ slope stability	Contributes to a connected trail system	Affords a variety of experiences
Creek Health and Stormwater Management (11 opportunities)							
CHSM-1	Monitor the water balance in wetlands within the park and add storage capacity if warranted.						
CHSM-3	At the forks of Ferris and Taylor Massey Creeks, there is a Toronto Water project proposed (MC2 Site 2) as part of the Taylor Massey Creek Geomorphic Systems Master Plan (2019-2020). Projects also are planned MC 1 Site 1 and MC 3 & 4 Sites 1 – 6 within same timeframe						
CHSM-2/4	Replace the closed washroom (east of O'Connor Drive) with a quality wetland or marsh.						
CHSM-5	Manage aquatic invasive species east of Dawes Road through wetland restoration.						
CHSM-6	Improve wetland area West of Dawes Road, restore native vegetation and improve hydrological connection to the creek.						
CHSM-7	Add stormwater containment directly under the main trail to improve stormwater management along this portion of the trail.						



Draft Management Recommendations and Opportunities

**Taylor Creek Park Management Plan
Public Information Session**



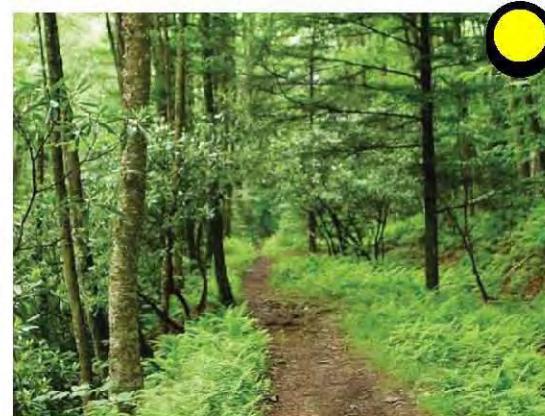
Trails and Access Opportunities



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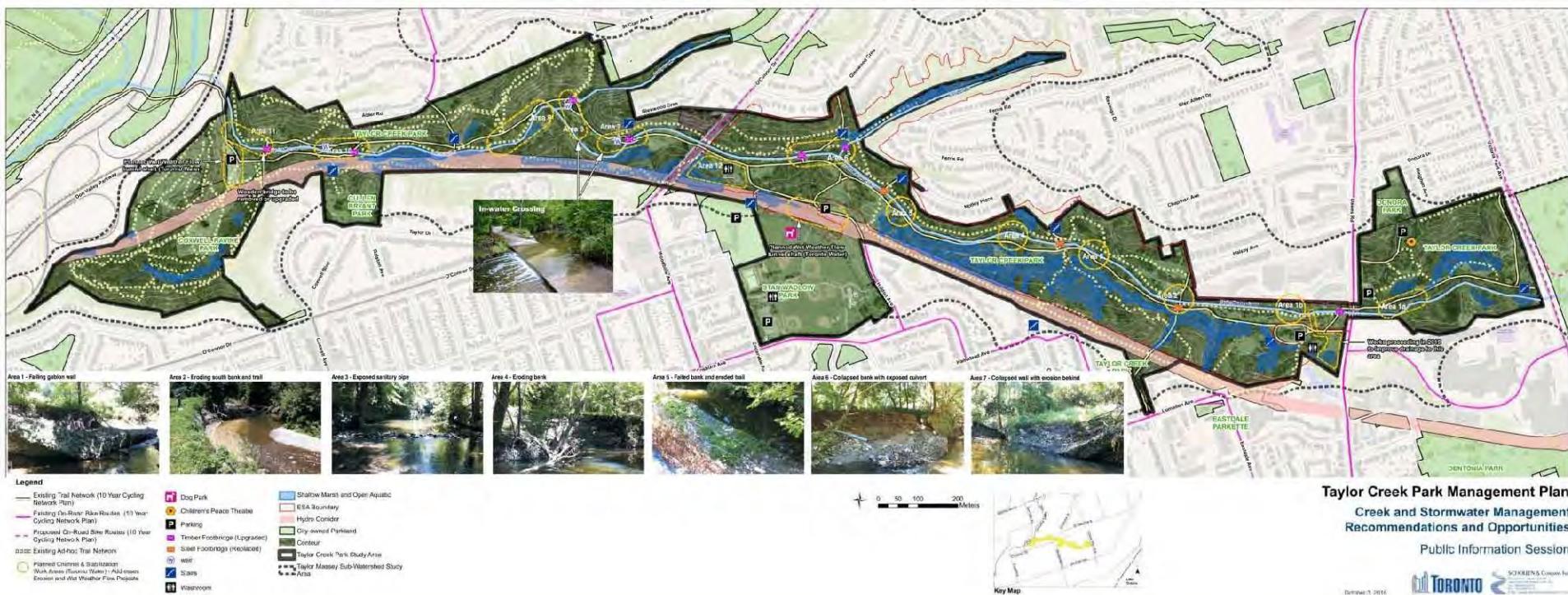
Trail Types



Creek & Floodplain Opportunities

Park-Wise Creek and Stormwater Recommendations

1. Reduce erosion and increase flood capacity by widening the creek channel and stabilizing banks where possible.
2. Protect infrastructure and trails from flooding and resolve drainage issues.
3. Allow for natural channel adjustment processes through restoration works.
4. Improve water quality and potential for fish passage.
5. Consider Low Impact Development techniques when planning improvements to parking areas.



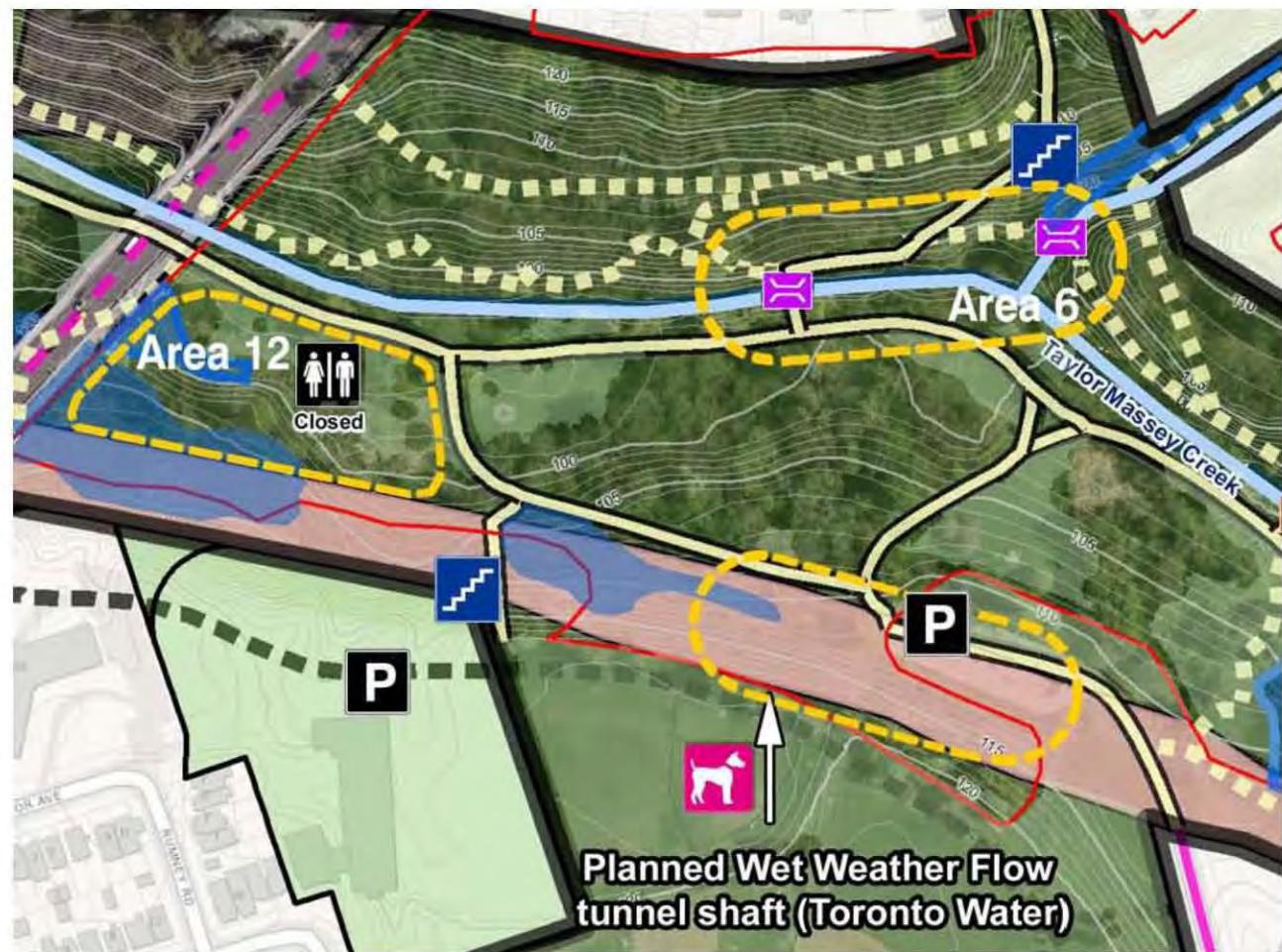
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Creek & Floodplain Opportunities

Opportunities consist of:

- Planned channel rehabilitation sites (11)
- WWF tunnel shaft sites (2)
- Site specific





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Ecological and Natural Systems Enhancement Opportunities

Park-Wide Natural Systems Enhancement Recommendations

1. Protect highly sensitive seepage and to estuarine protecting these sites with a 10-m minimum buffer/no-go area.
2. Manage invasive species throughout the park prioritizing areas of highest ecological sensitivity and hazardous sites.
3. Manage access to and proliferation of trails within the ESA and other highly sensitive sites from trail users.
4. Repair fragmented portions of the riparian corridor with native trees and shrubs providing flowering and pollinator species where acceptable.
5. Encourage stewardship and promote environmental and cultural heritage interpretation through environmental-based education programs and signage.



Taylor Creek Park Management Plan
Ecology and Natural Systems
Recommendations and Opportunities Plan

Public Information Session

October 3, 2013



Taylor Creek Park Management Plan
Public Information Session



Ecological and Natural Systems Enhancement Opportunities

Opportunities consist of:

- Restoration associated with channel rehabilitation sites (11)
- Site specific wetland, riparian and forest plantings



Sample Cluster Site

Trail Opportunities

- Trail Redesign/ Elevated Trail
- Trail Closure /Removal
- Trail Study: Closure or Upgrade
- New Multi-use Trail



Creek Stability and Flood Management Opportunities

- Planned Channel & Stabilization Work Areas (Toronto Water) - Addresses Erosion and Wet Weather Flow Projects



Sample Cluster Site

Natural Heritage System Enhancement Opportunities

-  Site specific restoration opportunities
-  Bank stabilization plantings/ habitat restoration after channel works and trail re-alignment (if required)
-  Potential Forest Restoration Opportunities
-  Potential Riparian Restoration Opportunities
-  Potential Wetland Restoration Opportunities



Next Steps & Schedule

- a) Finalize Draft Management Recommendations | by mid October
 - Project Team Meeting # 4 (Public Information Session debrief)
- a) Draft Implementation Plan | November
 - Internal Stakeholder Meeting
 - Online Engagement (Public)
 - Project Team Meetings # 5 and 6 (Draft & Final Management Plans)
- b) Management Plan Report | by end of Jan 2019



Questions & Answers & Workshop

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