Water as a Resource Port Lands & South of Eastern Transportation & Servicing Master Plan

Ontario Association for Impact Assessment October 18, 2018











Purpose of the Project

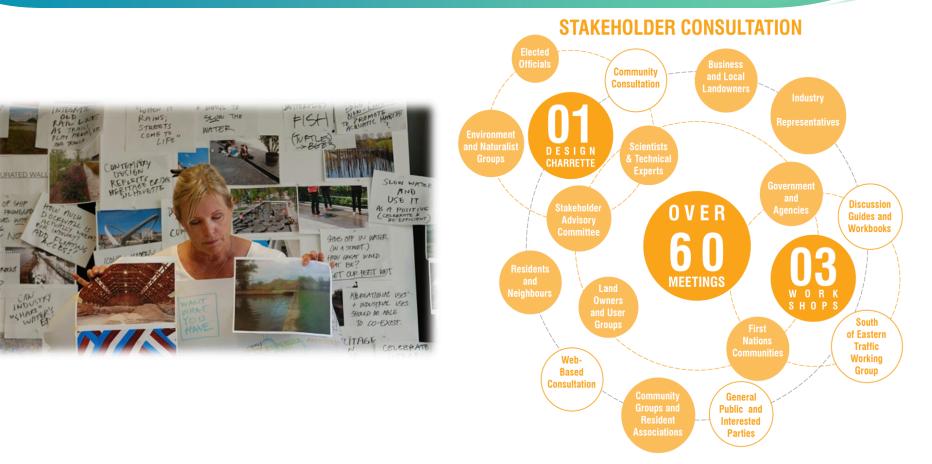
- Integrate the South of Eastern and the Port Lands areas through transportation and servicing through the Municipal Class EA Master Plan process
- Identify major street/transit networks and future water servicing needs
- Outline a phased approach for future long-term development of the area
- Support the evolution of Toronto's only active port and continued employment growth over the next 30 to 50 years.



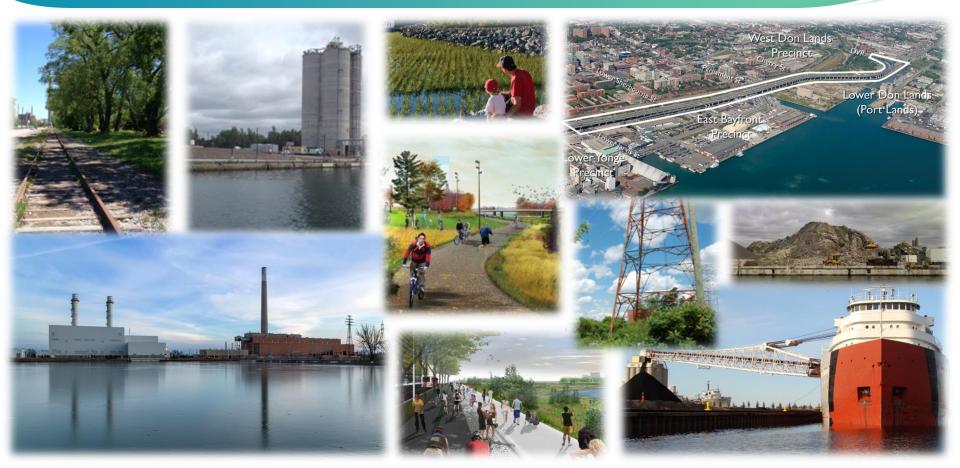
The Port Lands (Present Day)



Consultation



Problems & Opportunities



Vision & Objectives

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Throughout

Engagement

Consultation &

- Creating an interesting and dynamic urban mix
- Connecting the Port Lands to the city
- Leveraging assets
- Developing a high quality public realm
- Contributing to the sustainable future of the city
- Providing flexibility and certainty in implementation

SOLUTIONS U COMPREHENSIVE/COMPARATIVE EVALUATION OF ALTERNATIVE SOLUTIONS

IDENTIFICATION OF AI TERNATIVE

Up to 28 Evaluation Criteria and 53 Measures used to evaluate 33 transportation, 6 municipal servicing & 9 stormwater (including disinfection options) Alternative solutions

IDENTIFICATION OF PREFERRED SOLUTIONS

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RECOMMENDED MASTER PLAN

Recommended Master Plan

- Transit Prioritization
- Minimum Lane Widths
- Bike Lanes and Amenities
- Wide Sidewalks

(12)

Accommodate Goods Movement





Innovative Features

• Water as a Community Resource



The Port Lands & South of Eastern, 2065



Desired Street Character









Desired Street Character

Ship Channel and Water's Edge



Cherry Street



Don Roadway



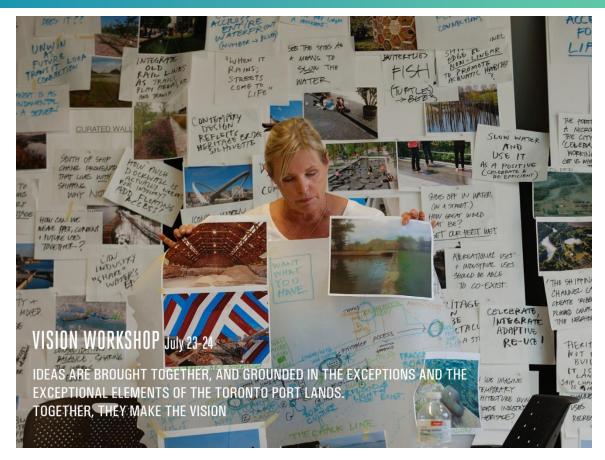
Commissioners Street



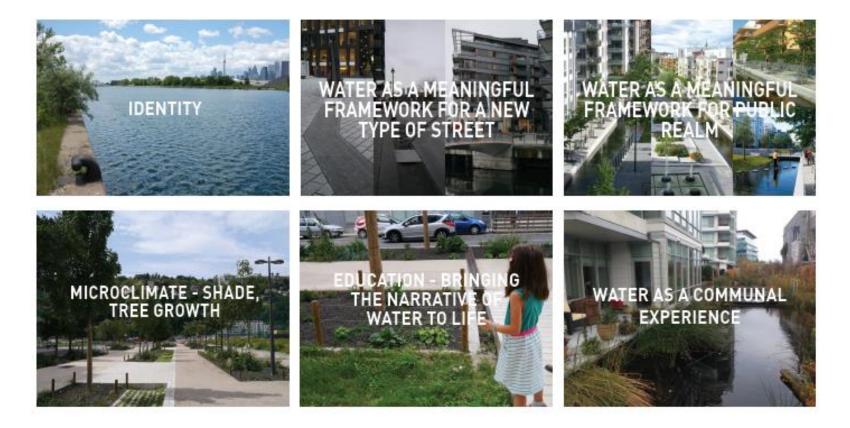


WATER AS A COMMUNITY RESOURCE

Inspiration



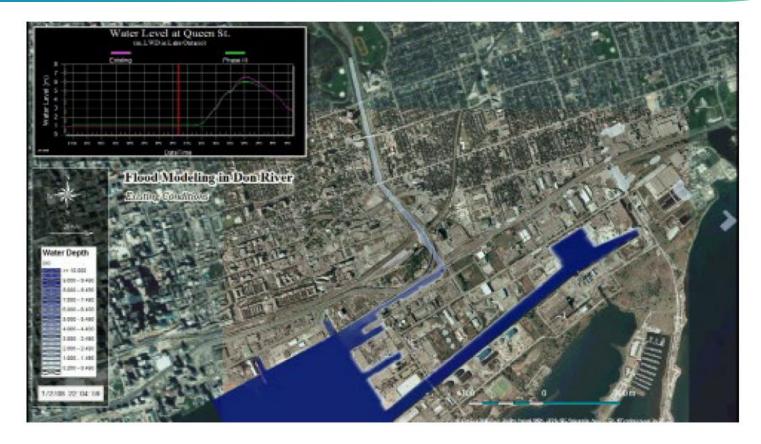
Inspiration





SOLRCE CONVEYANCE TREATMENT

Existing Conditions



Stormwater Management Alternatives



Combined Sewer

······ Stormwater Sewer

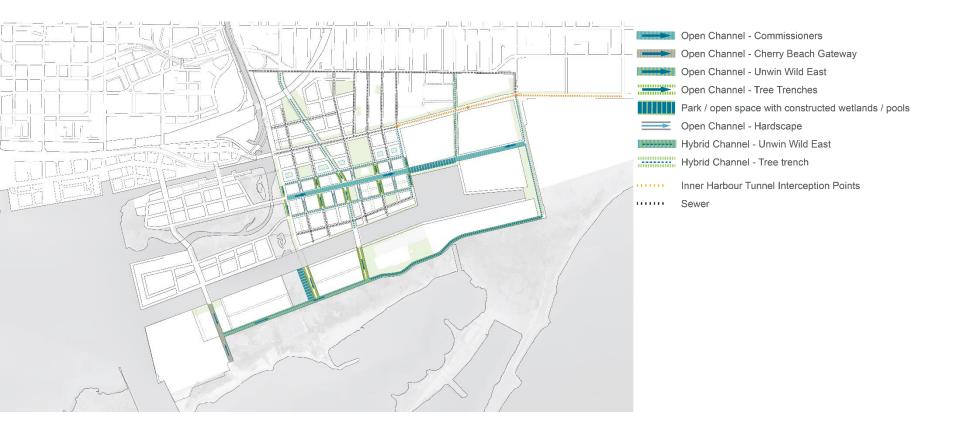


······ Inner Harbour Tunnel ····· Sewer





Preferred Solution: Water as a Resource



Water as a Resource



1. Commissioners: Planted and Programmed Open Channel



2. Unwin: Bioswales



3. Broadview: Tree Trench Open Channels



4. Cherry: Beach Gateway Open Channel and Sand Filter

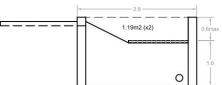
Water as a Resource



COMMISSIONERS STORMWATER PARK UNWIN WILDS BIOSWALE NORTH-SOUTH GREEN STREETS

Water as a Resource

Urban Bioswales











Commissioners Open Channel

7.0-6.0m	
3.42m2	0.5mas
	1.0
	7860









Unwin Channel/Swale

(0.4)4.68=1.872m2



Open Channel and Sand Filter





Preferred Disinfection Locations



OPEN CHANNELS

Open channel - Commissioners
Open channel - Cherry Beach galeway
Open channel - Unwin Wilds west
Open channel - Trod tranchos
Open channel - Hardscape

PLANTED HYBRID CHANNELS

(Combination of above ground open channel and sub surface sewer)

Hybrid channel - Unwin Wilds east

BLUE/GREEN PARKS + OPEN SPACE

- Open Space System
- Park/open space with constructed wetlands/pools

DISINFECTION LOCATIONS



Opportunity to explore and showcase innovative treatment methods, integrated into the open space system

Overall Project Challenges

- Integrating old and new
- Preserving elements of the industrial and cultural features while building the future
- Integrating innovative approaches to water when traditional methods could also work

- Non-traditional project within the context of a traditional approval process (Class EA)
- Constantly evolving area (Gardiner, Villiers Island, other studies, etc.)