Welcome to ULI’s Coastal Forum

Spring Meeting - May 13, 2020
Coastal Forum

• The Coastal Forum is a member-initiated network of leaders in real estate, land use, and climate resilience interested in sharing best practices for coastal development and investment protection in the face of climate change.

• The Forum seeks to provide an opportunity for members to...
  • Meet and build a network with peers involved in coastal development and/or resilience
  • Provide a targeted group to exchange private sector input into new tools and resources
  • Provide an opportunity for leadership and resilient development expertise in coastal development and resilience initiatives

• The Coastal Forum convenes biannually to tour innovative waterfront development projects and share information.
Jack Smith  
Chair, Coastal Forum  
Partner, Nelson Mullins

Ken Dion  
Project Director  
Port Lands Integration  
Waterfront Toronto

Peter Preston  
Civil Engineer/Associate  
Arup

Don Forbes  
Project Director  
Soil Remediation & Earthworks  
Waterfront Toronto

Mira Shenker  
Senior Manager  
Communications and Public Engagement  
Waterfront Toronto
Speakers

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Coastal Forum: 2020 Spring Meeting
Flood Risks in Toronto
rising lake levels
riverine flooding
Flood risk in Toronto
300 hectares already protected...290 to go
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Coastal Forum: 2020 Spring Meeting
Corktown Common
Corktown Common

Located in **Toronto, ON, Canada**

- **18 acres** (7.3 ha)

Opened in **July 2014**

Developed by **Waterfront Toronto**

Designed by **Michael Van Valkenburgh Associates Inc**

Multi-disciplinary engineering services by **Arup**

 Constructed by **Eastern Construction Company Ltd**

Construction cost **$16m**
An Instrument of Flood Protection

The Corktown Common site in the West Don Lands was once a **brownfield with a large risk of flooding** from the Don River.

Before any revitalization of the West Don Lands could occur, the area needed to be protected from flooding.

The solution: a **flood protection landform**.

Completed in 2012, the flood protection landform removed 210 hectares of land from the Don River flood plain.

https://www.asla.org/2016awards/172397.html

https://www.portlandsto.ca/flood-protection-in-corktown-common/

An Instrument of Flood Protection

The flood protection landform was developed by Infrastructure Ontario and the Toronto and Region Conservation Authority with design and construction assistance from AECOM and Elite Construction, Inc.

Up to 4 metres high, the flood protection landform sits above the regulatory flood depth of Hurricane Hazel, Canada’s worst hurricane, which struck Toronto in 1954.

At the heart of the flood protection landform runs a clay core which prevents water from penetrating through it.

https://www.canadianarchitect.com/parks-and-regeneration/
Building on High Ground

The flood protection landform enabled the development of the West Don Lands, including the park known as the “dry side” of the Corktown Common site.


American Society of Landscape Architects (https://portlandsto.ca/flood-protection-in-corktown-common/)
The Corktown Common Water Story

Acknowledging water as a valuable resource… Minimize potable water use. Reuse greywater for irrigation and marsh supply.

Returning water to the earth… Minimize impermeable surfaces. Support living marshland.

Supplying water for life… Irrigate the plant life. Improve microclimate. Foster biodiversity.

Protecting from floods… Safeguard the area from flooding in extreme storm events.

Reconnecting people with water… Provide legacy infrastructure offering recreational and educational benefits.

Corktown Common

www.rewaterfronttoronto.ca
The Corktown Common Water Story

(1) **Water Play Area**: fountains and splash pads for children to enjoy, supplied by potable water. Greywater from splash pads is captured and treated on-site before being conveyed to park’s marsh and irrigation system.

(2) **Water Treatment**: Microfilters and UV sterilization system beneath park pavilion.

(3) **Living Marsh**: An ecologically flourishing environment that receives and treats stormwater and greywater, functioning as a tertiary water treatment system.

(4) **Cistern**: Underground storage cells to store treated water for re-use in irrigation.

(5) **Stormwater Network**: Catchbasins and underground pipes collect stormwater runoff across the site and send it to the marsh.

https://urbantoronto.ca/news/2015/11/photo-day-corktown-common
We shape a better world
Speakers

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Let's Walk
1. Corktown Common
2. Sediment & Debris Management Area
3. Don Roadway at Keating Channel
4. Future River Valley
5. Don Greenway
6. River Valley Park, new river mouth
7. Promontory Park
8. New Cherry Street and Bridge
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2. Sediment & Debris Management Area
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7. Promontory Park
8. New Cherry Street and Bridge
Stop 1: Corktown Common

- 360 degree views on Google Maps: [https://www.google.ca/maps/@43.6538924,-79.3527272,17z](https://www.google.ca/maps/@43.6538924,-79.3527272,17z)
Stop 2: Sediment and Debris Management Area
Stop 3: Don River and Keating Channel
Stop 4: Future River Valley
Stop 5: Don Greenway/Spillway
Stop 7: Promontory Park
Stop 8: New Cherry Street & Cherry Street Bridge

North
a waterfront for everyone
Moderated Discussion

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QUESTIONS and COMMENTS?

Note to Coastal Forum:
What projects could you highlight in our next session on coastal resilience?
Please offer any suggestions by email to Jack Smith and Leah Sheppard (Leah.Sheppard@uli.org).

THANK YOU!