

Port Lands Flood Protection Construction Liaison Committee Meeting #3 September 24, 2018





- 1. Introductions
- 2. Project Background
- 3. Construction Update: Cherry Street Stormwater and Lakefilling
- 4. Construction Update: Port Lands Flood Protection
- 5. Overview: Managing Construction Impacts
- 6. Traffic Management Plan Update
- 7. Next Steps
- 8. Discussion and Feedback

Project Overview









Full Vision Plan



о 50 100м

Funded Project Areas



What are we building?

н.

 $\mathbf{x} = \mathbf{x} \cdot \mathbf{x}$

Parks

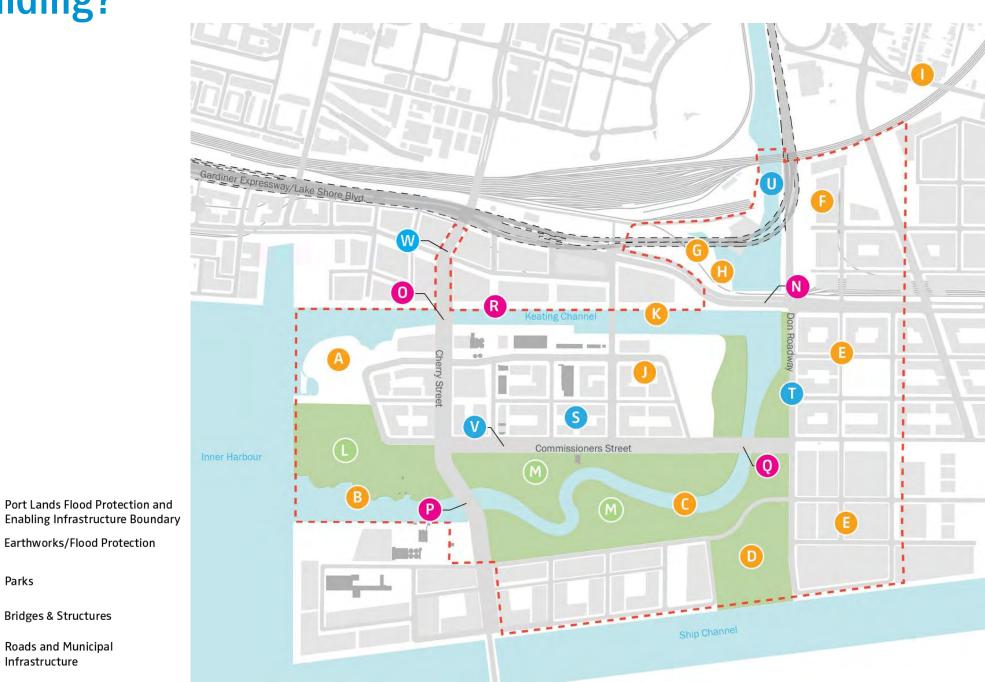
Bridges & Structures

Roads and Municipal Infrastructure





Cherry Street Re-alignment W



Earthworks/Flood Protection

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 $\mathbf{x} = \mathbf{x} \cdot \mathbf{x}$

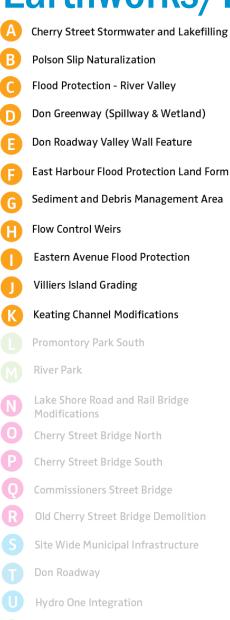
Parks

Port Lands Flood Protection and

Earthworks/Flood Protection

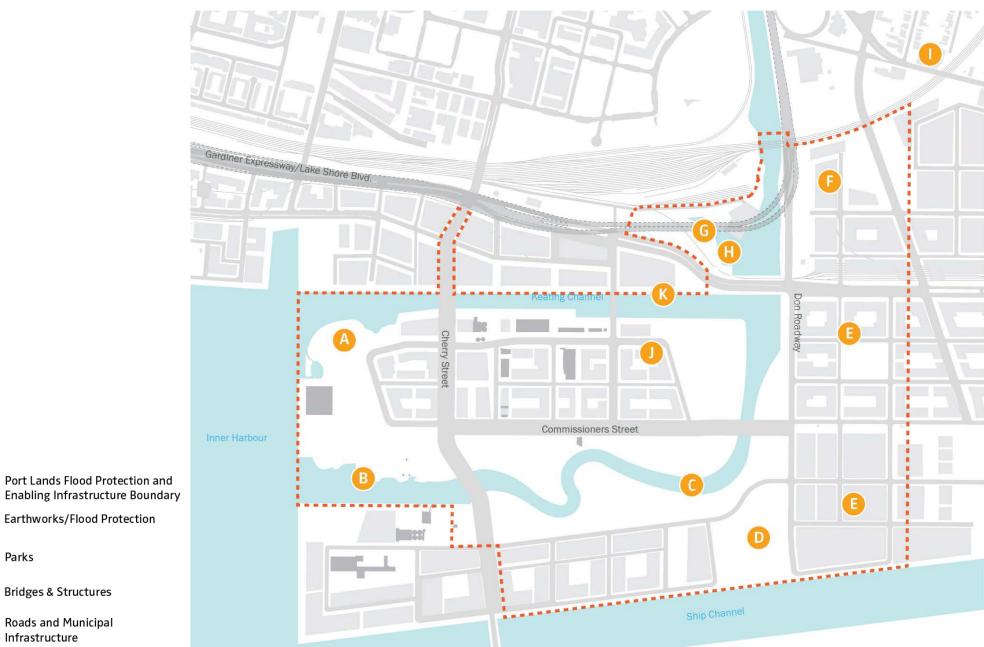
Bridges & Structures

Roads and Municipal Infrastructure





Cherry Street Re-alignment



Bridges and Structures

- Cherry Street Stormwater and Lakefilling
- Polson Slip Naturalization
- Flood Protection River Valley
- Don Greenway (Spillway & Wetland)
- Don Roadway Valley Wall Feature
- East Harbour Flood Protection Land Form
- Sediment and Debris Management Area
- Flow Control Weirs
- Eastern Avenue Flood Protection
- Villiers Island Grading
- Keating Channel Modifications
- Promontory Park South
- **River Park**

Ρ

- Lake Shore Road and Rail Bridge N Modifications
- 0 Cherry Street Bridge North
 - Cherry Street Bridge South
- Commissioners Street Bridge Q
- R **Old Cherry Street Bridge Demolition**

Port Lands Flood Protection and

Earthworks/Flood Protection

Bridges & Structures

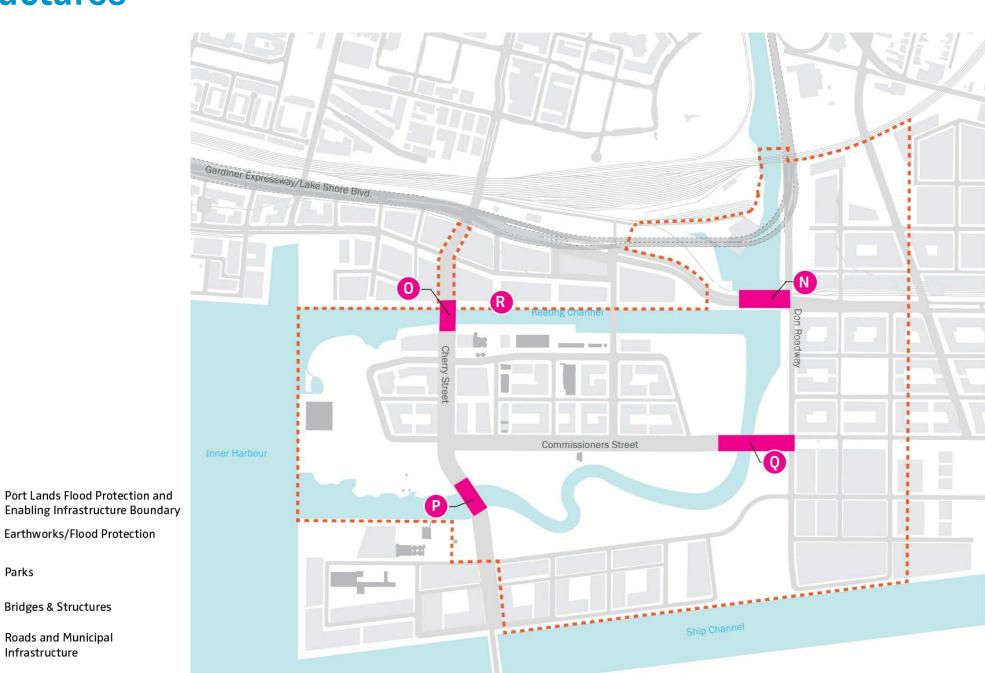
Roads and Municipal Infrastructure

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 $\mathbf{x} = \mathbf{x} \cdot \mathbf{x}$

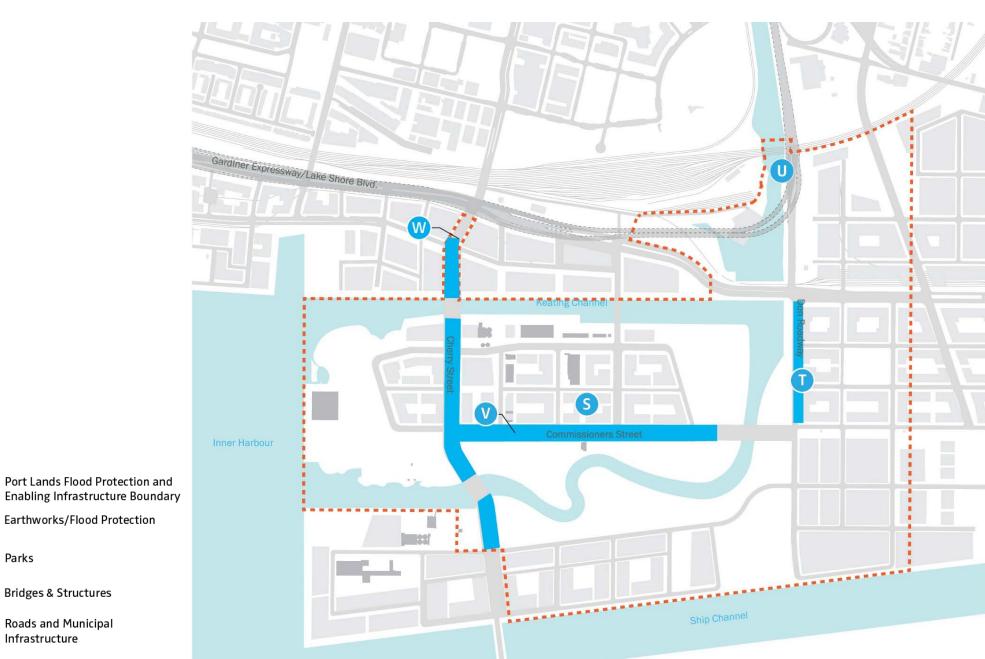
Parks

- Site Wide Municipal Infrastructure
- Don Roadway
- Hydro One Integration
- Commissioners Street
- Cherry Street Re-alignment

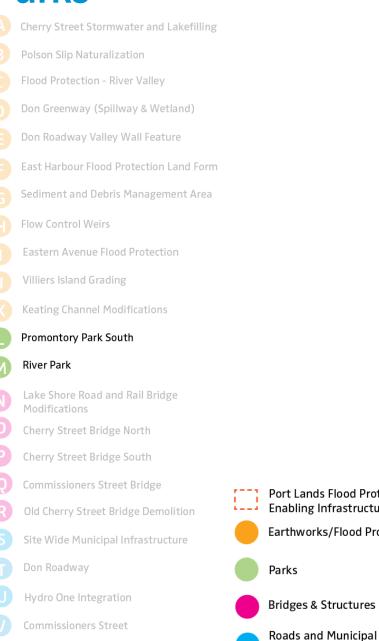


Roads and Municipal Services

Cherry Street Stormwater and Lakefilling Polson Slip Naturalization Flood Protection - River Valley Don Greenway (Spillway & Wetland) Don Roadway Valley Wall Feature East Harbour Flood Protection Land Form Sediment and Debris Management Area Flow Control Weirs Eastern Avenue Flood Protection Villiers Island Grading Keating Channel Modifications Promontory Park South **River Park** Lake Shore Road and Rail Bridge Modifications Cherry Street Bridge North Cherry Street Bridge South Commissioners Street Bridge т Old Cherry Street Bridge Demolition $\mathbf{x} = \mathbf{x} \cdot \mathbf{x}$ Earthworks/Flood Protection Site Wide Municipal Infrastructure Don Roadway Parks Hydro One Integration **Bridges & Structures Commissioners Street** Roads and Municipal Infrastructure Cherry Street Re-alignment W

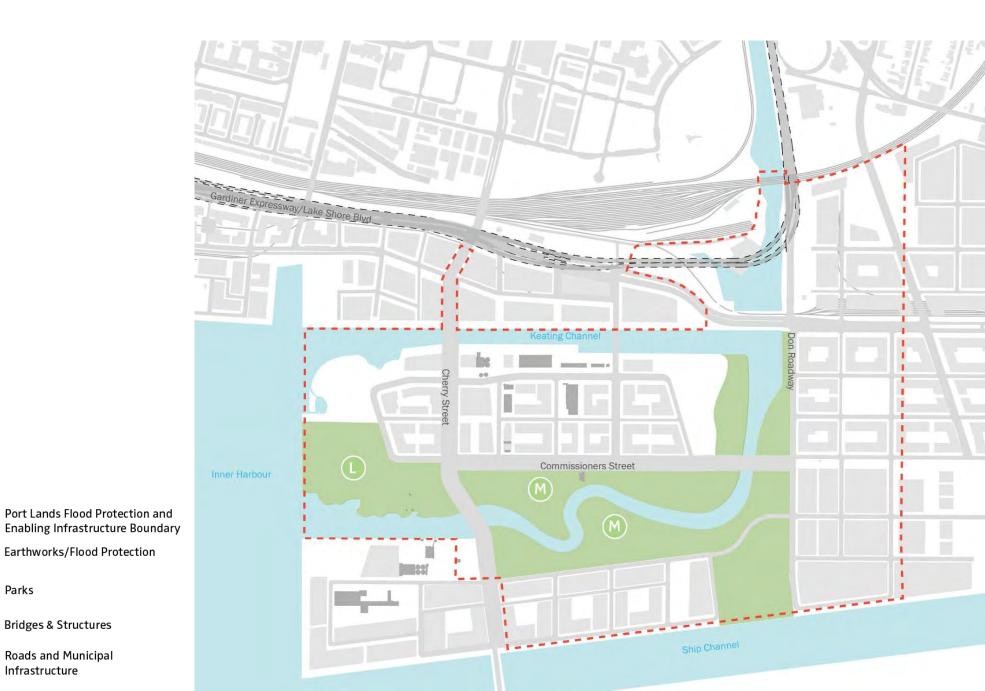


Parks



Cherry Street Re-alignment

Infrastructure



Construction Update: Cherry Street Stormwater and Lakefilling

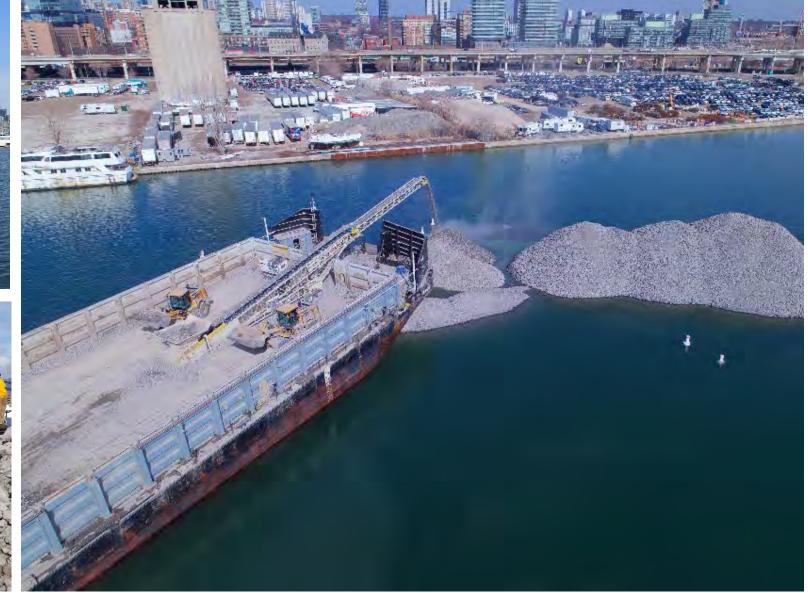
Construction Schedule



Ongoing Construction: Revetment Berm







Ongoing Construction: Dock Wall









Ongoing Construction: Lakefilling







Ongoing Construction: Marine Landscaping





Construction Update: Port Lands Flood Protection

September 20, 2018

Waterfront Toronto

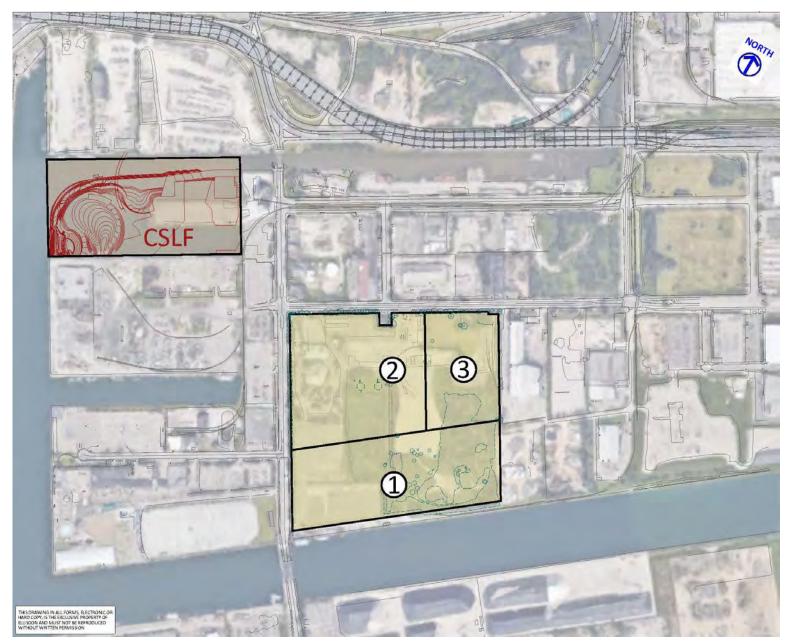
Parks, Public Realm, and River Projects

PRESENTED BY D EllisDon



WATERFRONToronto

Ongoing Construction: August – December 2018



AREA 1

- Tree cutting
- Demolition: parking lot
- Site preparation: removal and stockpiling of topsoil

AREA 2

- Tree cutting
- Demolition: buildings, parking lot
- Site preparation: removal of topsoil

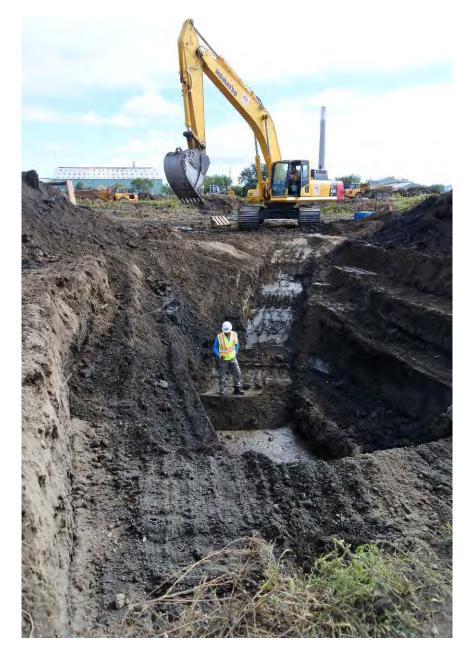
AREA 3

- Tree cutting
- Demolition: building, parking lot
- Site preparation: removal of topsoil

MONITORING (SITE-WIDE)

• Air, dust, noise, odour, weather

Ongoing Work: Soil and Groundwater Sampling



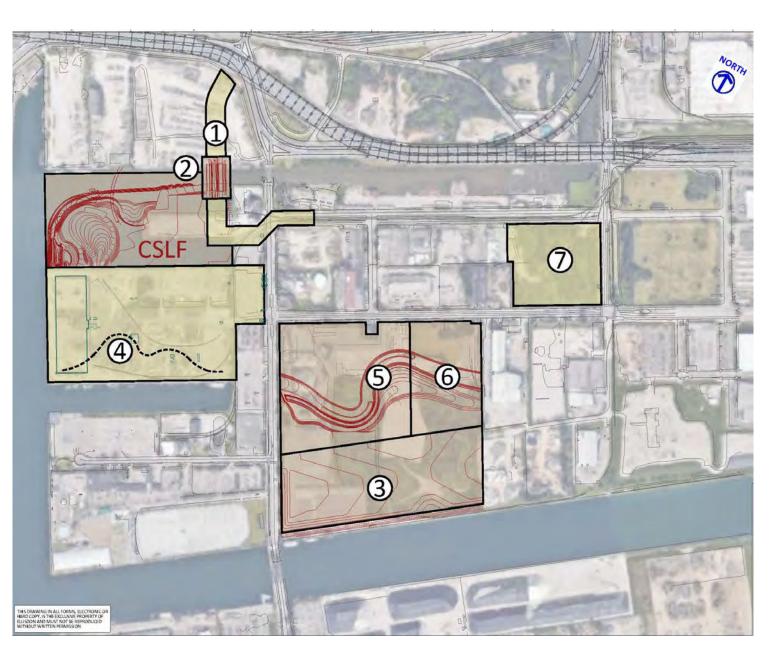




Ongoing Work: Air, Dust, Noise, Odour and Weather Monitoring



Upcoming Construction: January-March 2019



AREA 1

• Cherry Street realignment: demolition, site preparation

AREA 2

New Cherry Street Bridge

AREA 3

• Installation of soil treatment facility

AREA 4

- Demolition: parking lots, buildings
- Site preparation

AREA 5

Deep soil mixing

AREA 6

• Site preparation

AREA 7

- Tree cutting
- Demolition: buildings, parking lots
- Site preparation

MONITORING (SITE-WIDE):

- Air, dust, noise, odour, weather
- Turbidity
- Surface-water quality
- Vibration

Overview: Managing Construction Impacts

Effects*	Mitigation Measures
Traffic / service disruptions	Use a traffic management plan and standard traffic control measures and safely co-ordinate traffic flow
	Provide alternate access and re-routing signage to businesses as required and maintain emergency access to adjacent structures and buildings
Dust and emissions	Use monitoring systems to measure dust levels
	Adhere to Waterfront Toronto's management plan for dust suppression and emissions
Noise	Act in accordance with City of Toronto's Noise Bylaw
	Operate truck traffic for off-site disposal of soil during off- peak hours where possible
Odour	Use monitoring systems to measure odour levels
	Implement odour-control measures on-site

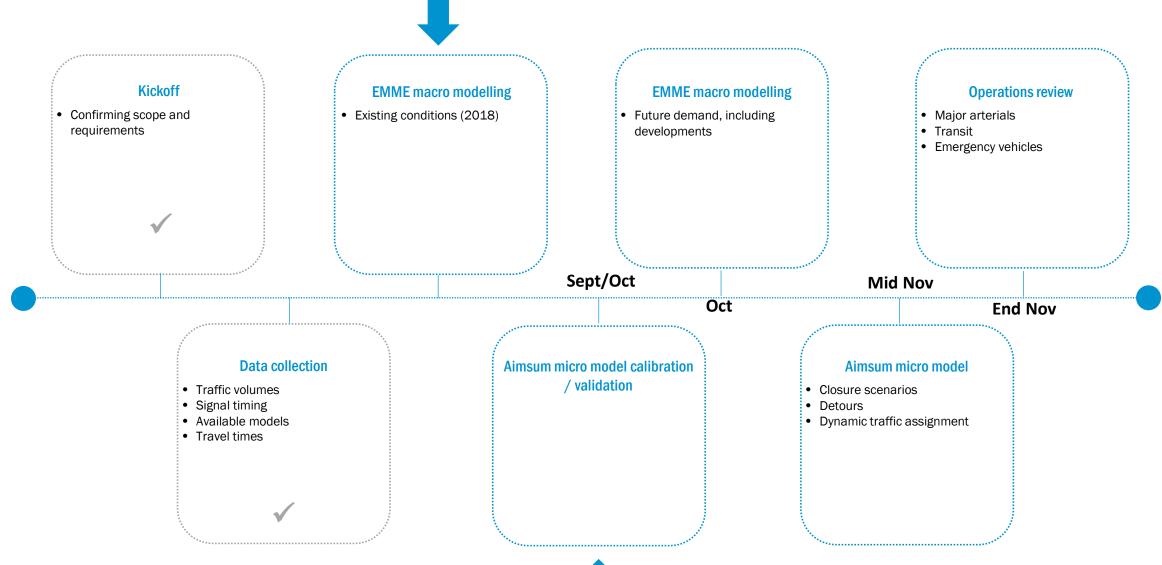
*As identified in Section 7 of the Don Mouth Naturalization and Port Lands Flood Protection Environmental Assessment

Overview: Managing Construction Impacts

- Environmental Management Plans
 - Soil Management Plan
 - Air Quality, Weather and Noise Monitoring Plan
 - Surface Water Quality Monitoring Plan
 - Groundwater Management Plan
 - Odour Management Plan
 - Water Management Plan
- Traffic Management Plan
- Health and Safety Plan

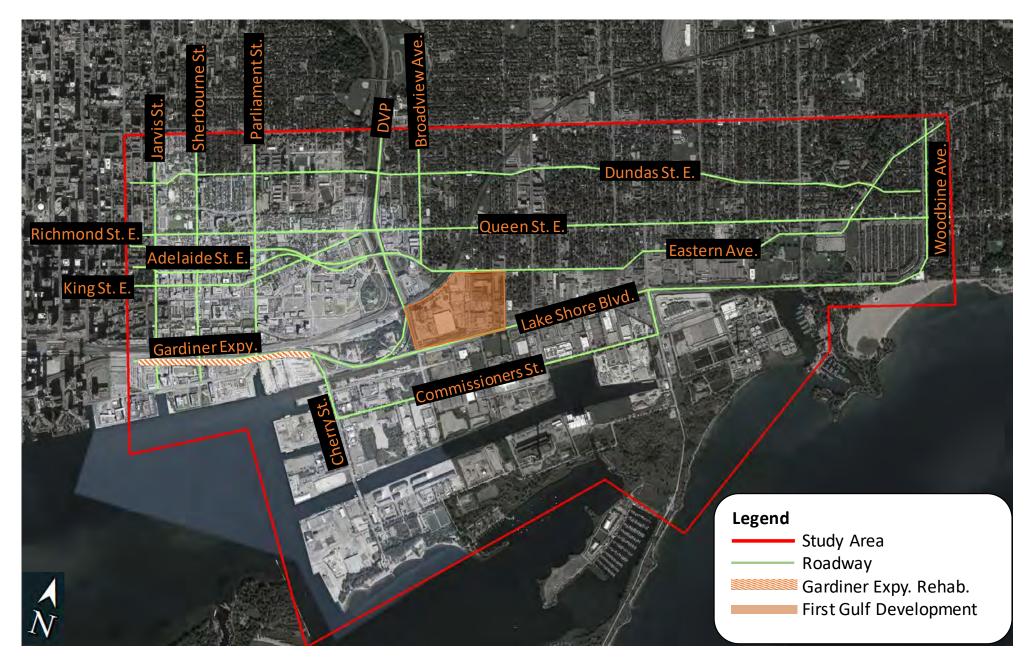
Traffic Management Plan Update: Port Lands Flood Protection

Where are we now?

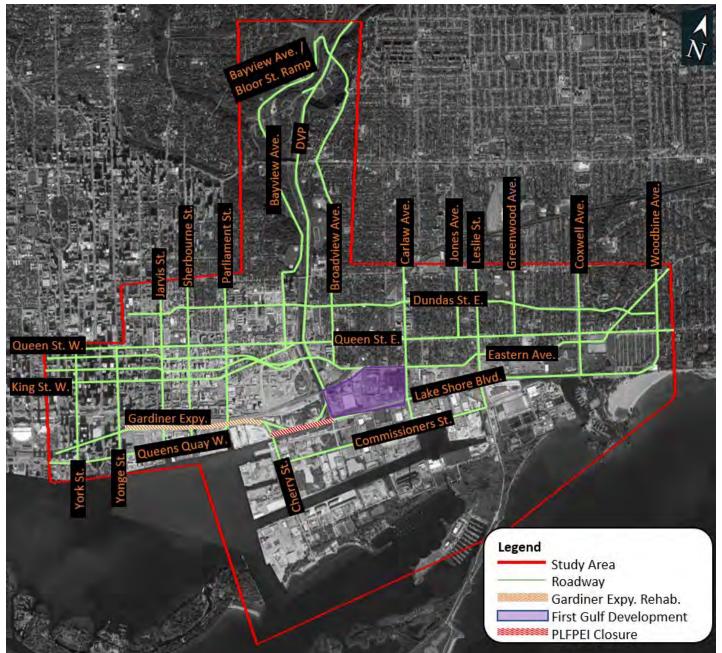




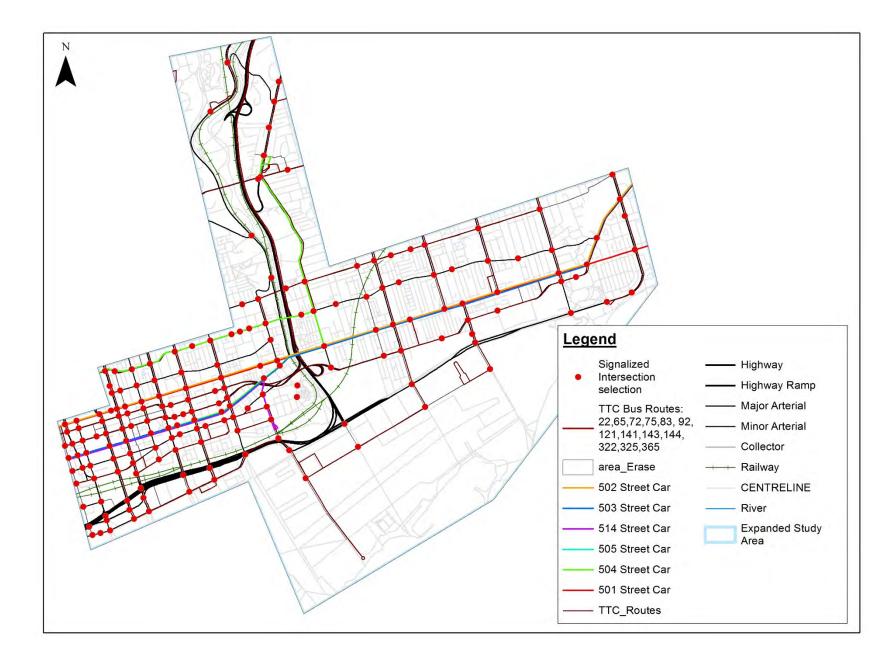
Original Study Area



Revised Study Area

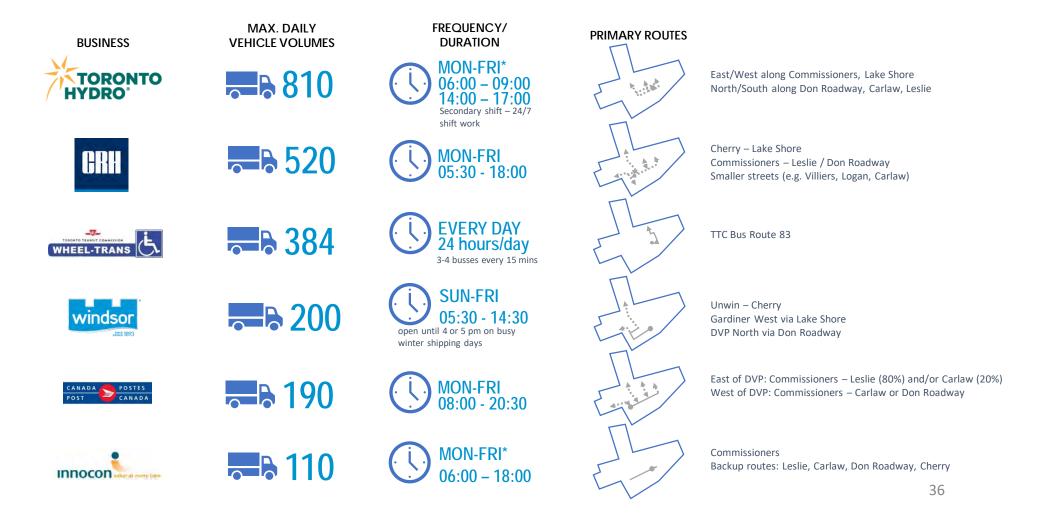


New Study Area: Traffic Signals and Transit Routes



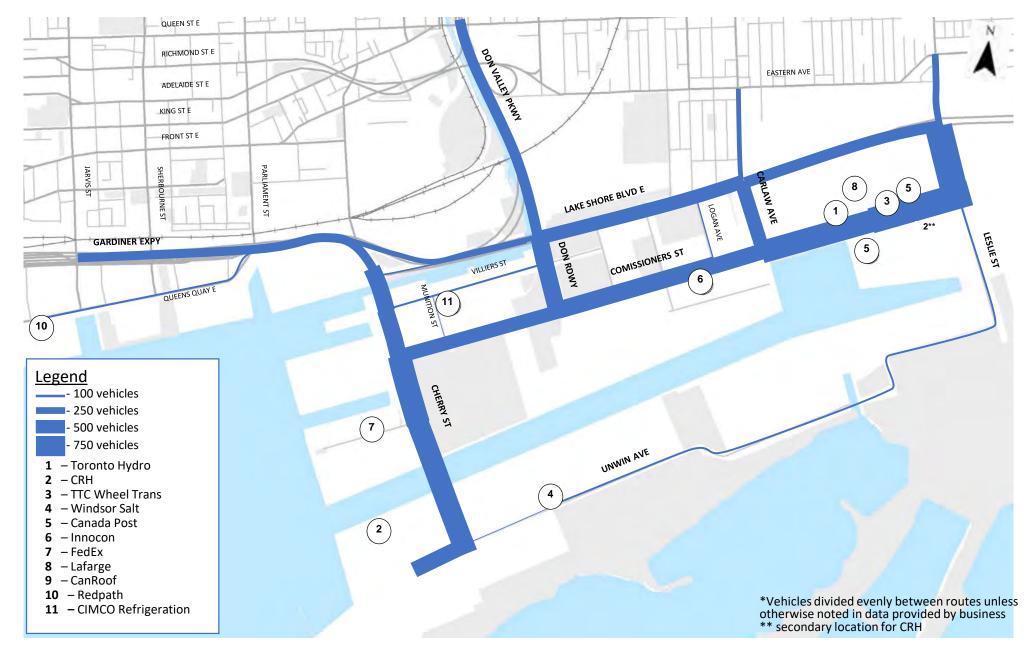
We got data from 11 stakeholders on:

- Trips to/from the business:
 - Roadways
 - -Time of day
- Special times for spike in traffic (seasonal or during special events)
- Level of operations that can accommodate as a "worst case scenario"
- Alternative routes and/or time of day during construction



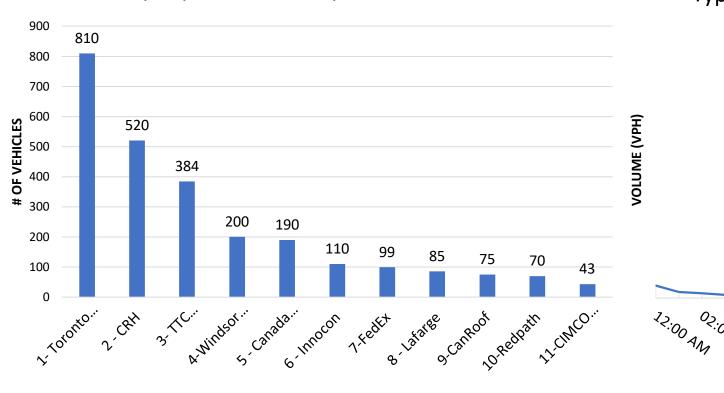


* Respondent did not specify days when the business typically operates, assumed Monday - Friday



Stakeholder Input Integrated with Additional Data

Daily Trips Generated by Stakeholders



Typical Weekday Volume Profile – City of Toronto

TIME OF DAY Model will cover the peak hours noted above: AM Peak – 7:30 to 8:30 AM PM Peak – 5:00 to 6:00 PM

12:00 PM

10:00 ANA

02:00 PM

04:00 PM

06:00 PM

08:00 PM

10:00 PM

02:00 ANA

04:00 AM

06:00 ANA

08:00 ANA

- Traffic model will consider how total trips generated by stakeholder businesses are distributed throughout a typical day
- Model will drive the traffic management plan and will inform detour routes (vehicles, active transportation, TTC), signage and pavement markings

Next Steps

- September-November 2018: Continuous Coordination with City Staff and stakeholders
- December 2018: Complete model of existing conditions; Update to CLC
- Additional consultation with City staff and stakeholders as Traffic Management Plan is finalized
- Finalize Traffic Management Plan in advance of any major closures

Discussion and Feedback