Lower Trent Conservation Authority (LTRCA)

LEGEND:

Hazard Mapping:

100 Year Flood Level







Base Mapping:

- Geographical Names
- Dynamic Beach (Start Pt)
- Dynamic Beach (End Pt)
- Road Network
- LTRCA Administrative Boundary

INTERPRETATION OF THE HAZARD MAPS:

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DATA SOURCES:

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Inset Map: © OpenStreetMap contributors

DEFINITIONS:

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The 100 Year Combined Flood Level considers both static lake level and storm surge, having a combined probability of being equalled or exceeded during any year of 1% (i.e., probability, P=0.01). The 100 Year Combined Flood Level elevation for LTRCA is +76.03 m IGLD85 (+75.62 m CGVD2013).

Flood Hazard Limit

The Flood Hazard Limit is defined as the 100-Year Flood Level plus an allowance for wave runup and uprush. For the exposed shoreline, wave effects are calculated based on localized nearshore conditions and waves. For embayments, the standardized 15 m setback is applied. Refer to the Lake Ontario Shoreline Management Plan for additional details.

Toe of Bluff

The Toe of Bluff is the transition from the gently sloping beach to the steep portion of the bank or bluff slope.

Stable Slope Allowance

The Stable Slope Allowance is defined as a horizontal setback equivalent to 3.0 times the height of the bank or bluff.

Erosion Hazard Limit

The landward extent of the Erosion Hazard is the sum of the 100 year erosion rate plus the Stable Slope Allowance, measured horizontally from the toe of the bank or bluff.

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Datum Conversion:

Horizontal: UTM 18N NAD1983, metres. IGLD1985 - CGVD2013 = 0.41 m (average)To convert from IGLD85 to CGVD2013, subtract Vertical: CGVD2013, metres

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PREPARED BY:



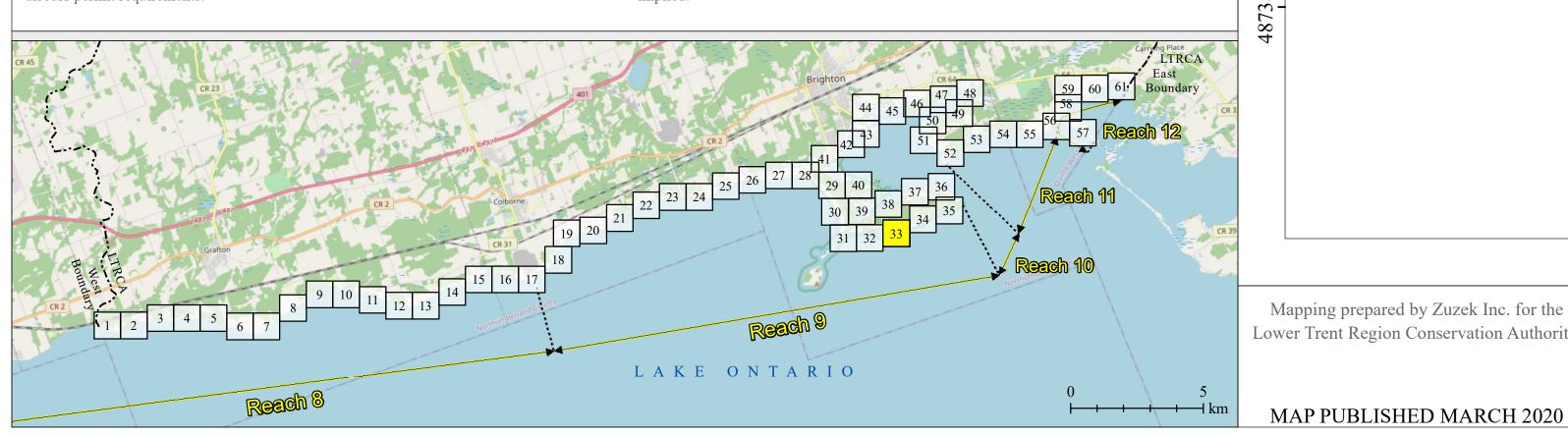


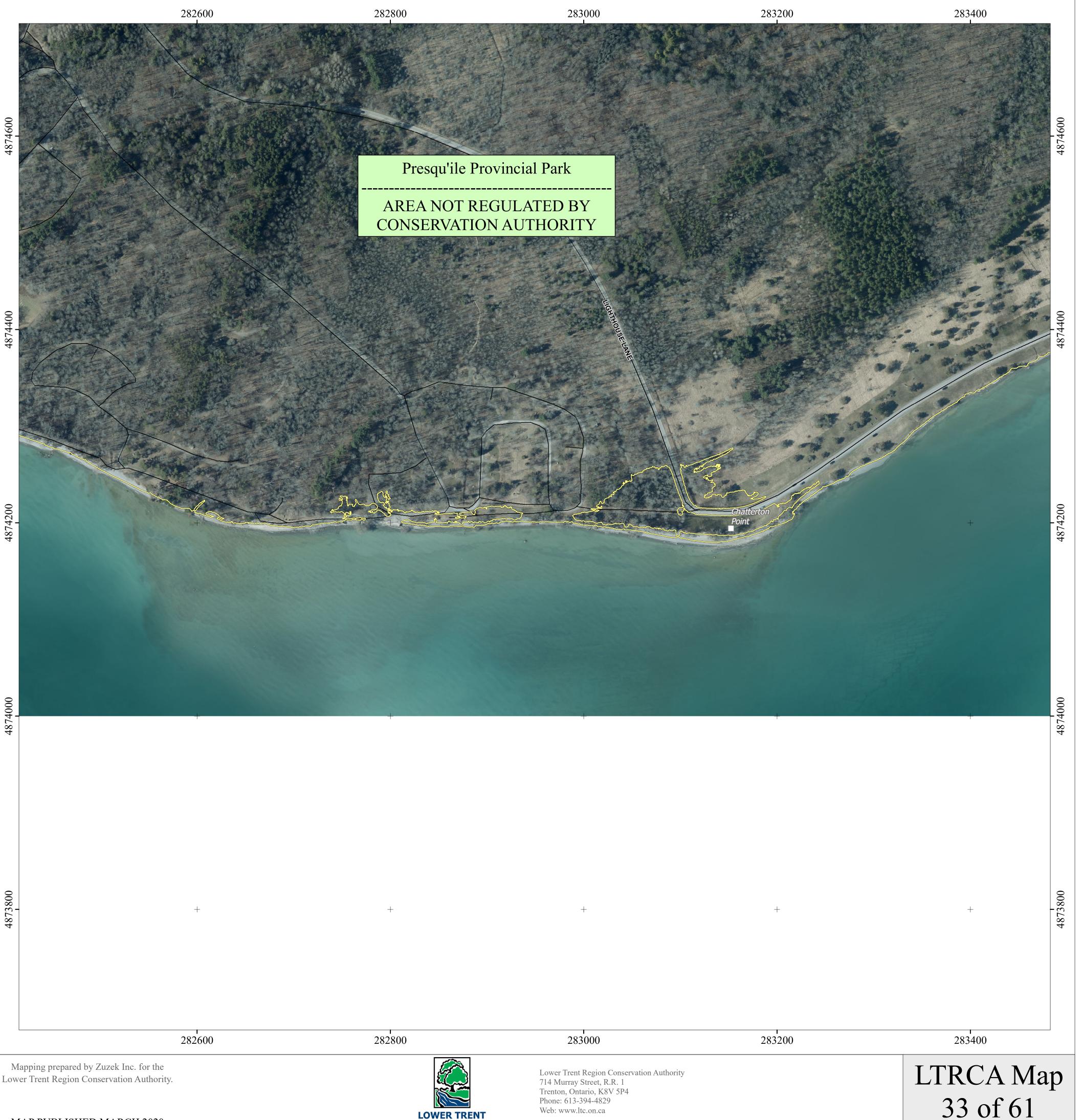




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Web: www.ltc.on.ca

Lower Trent Conservation Authority (LTRCA)

LEGEND:

Hazard Mapping:









Base Mapping:

- Geographical Names
- Dynamic Beach (Start Pt)
- Dynamic Beach (End Pt)
- Road Network
- LTRCA Administrative Boundary

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Inset Map: © OpenStreetMap contributors

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Datum Conversion:

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Note: There are local variations along the reaches within LTRCA. Refer to the Lake Ontario SMP for additional details.

MAP PUBLISHED MARCH 2020

283600

283800

PREPARED BY:



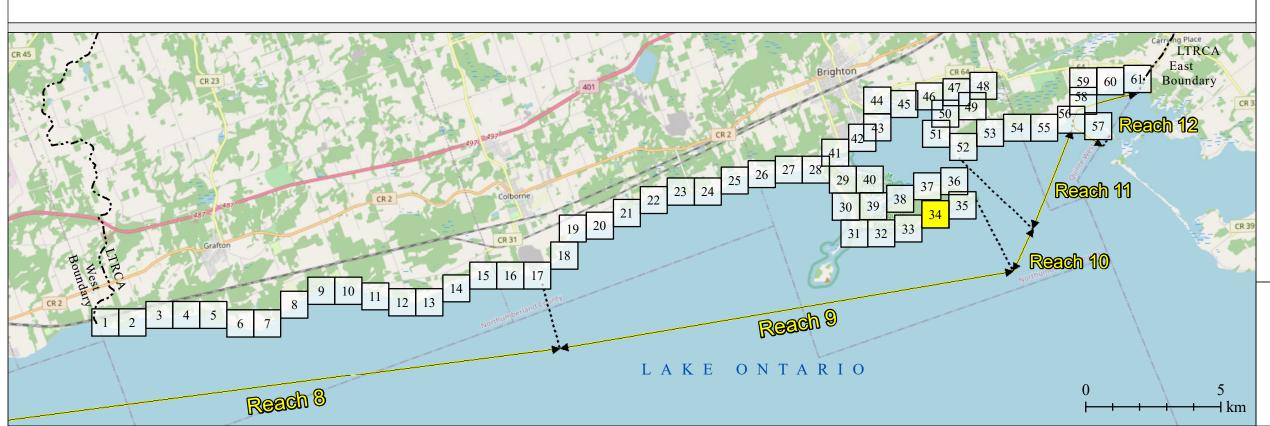






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284000



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LTRCA Map 34 of 61

284400

Lower Trent Conservation Authority (LTRCA)

LEGEND:

Hazard Mapping:





Erosion Hazard Limit

Dynamic Beach Setback

Base Mapping:

- Geographical Names
- O Dynamic Beach (Start Pt)
- Dynamic Beach (End Pt)
- LTRCA Administrative Boundary

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Inset Map: © OpenStreetMap contributors

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Datum Conversion:

Horizontal: UTM 18N NAD1983, metres.
Vertical: CGVD2013, metres

To conv

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To convert from IGLD85 to CGVD2013, subtract
0.41 m.

Note: There are local variations along the reaches within LTRCA. Refer to the Lake Ontario SMP for additional details.

50 100 200 ______m



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PREPARED BY:



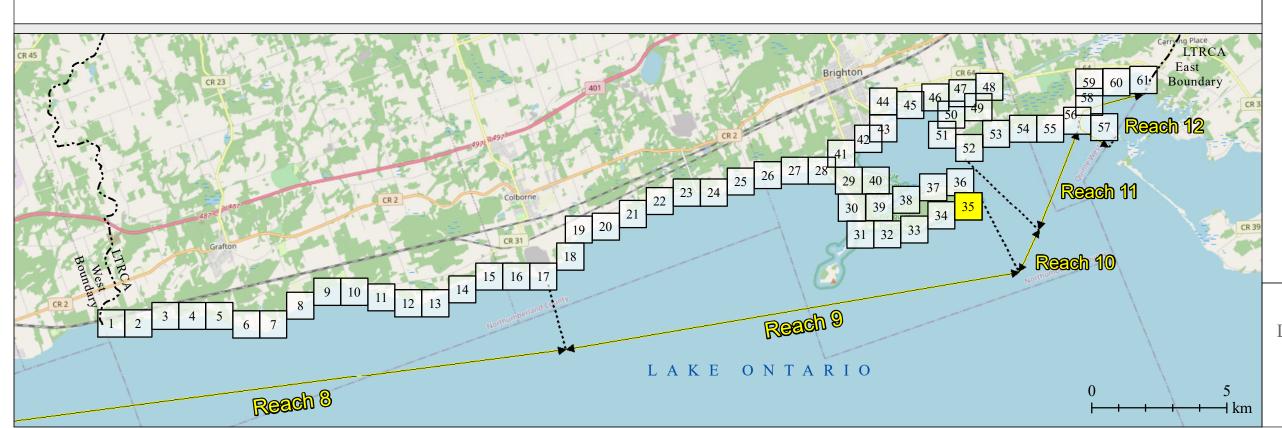






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Lower Trent Conservation Authority (LTRCA)

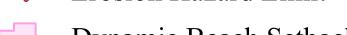
LEGEND:

Hazard Mapping:

100 Year Flood Level







Dynamic Beach Setback

Base Mapping:

- Geographical Names
- Dynamic Beach (Start Pt)
- Dynamic Beach (End Pt)
- Road Network
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Vertical: CGVD2013, metres

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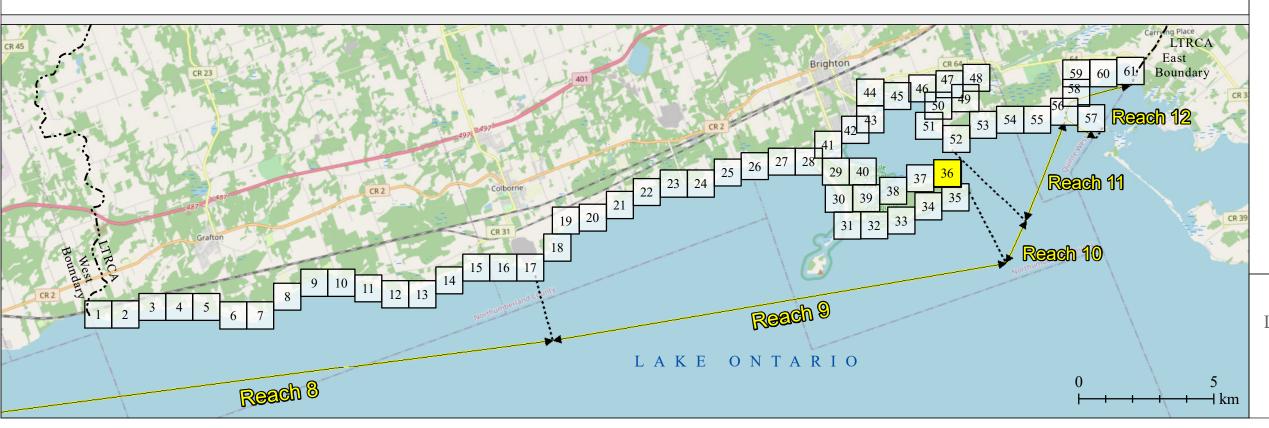






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LTRCA Map 36 of 61

Lower Trent Conservation Authority (LTRCA)

LEGEND:

Hazard Mapping:







Dynamic Beach Setback

Base Mapping:

- Geographical Names
- Dynamic Beach (Start Pt)
- Dynamic Beach (End Pt)
- Road Network
- LTRCA Administrative Boundary

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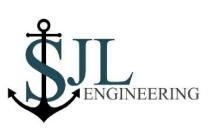
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PREPARED BY:



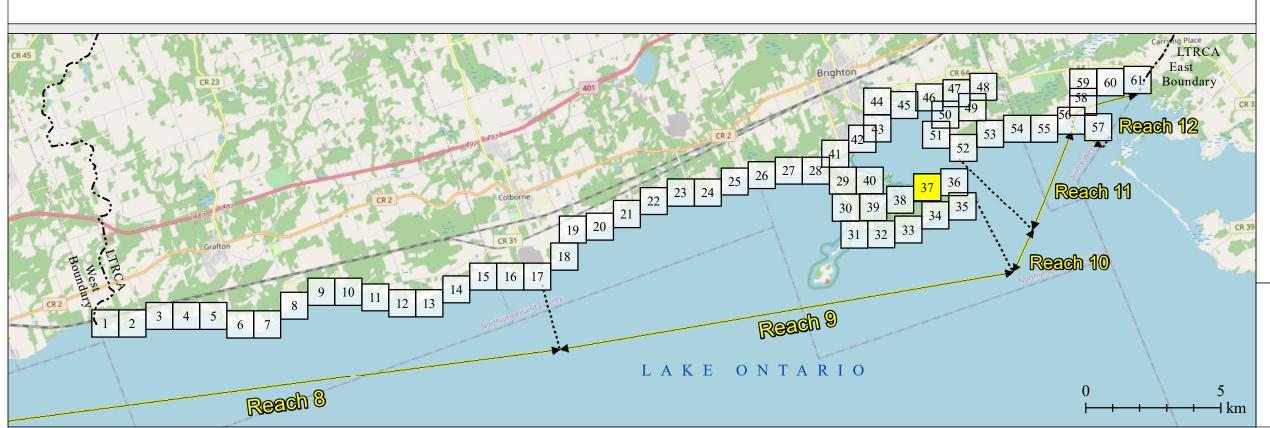






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Lower Trent Region Conservation Authority.

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LTRCA Map 37 of 61

Lower Trent Conservation Authority (LTRCA)

LEGEND:

Hazard Mapping:









Base Mapping:

- Geographical Names
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- Dynamic Beach (End Pt)
- Road Network
- LTRCA Administrative Boundary

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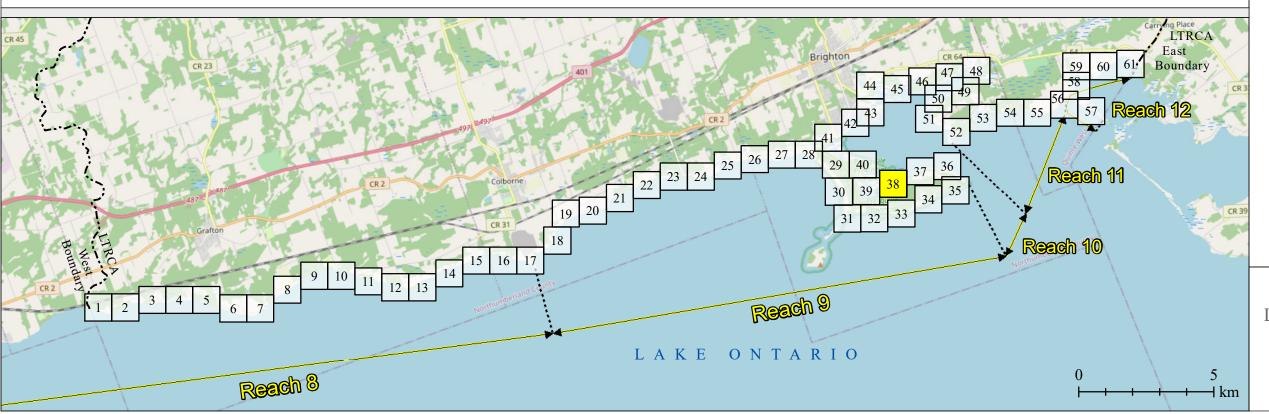






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Mapping prepared by Zuzek Inc. for the Lower Trent Region Conservation Authority.

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LTRCA Map 38 of 61

Lower Trent Conservation Authority (LTRCA)

LEGEND:

Hazard Mapping:









Base Mapping:

- Geographical Names
- Dynamic Beach (Start Pt)
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- Road Network
- LTRCA Administrative Boundary

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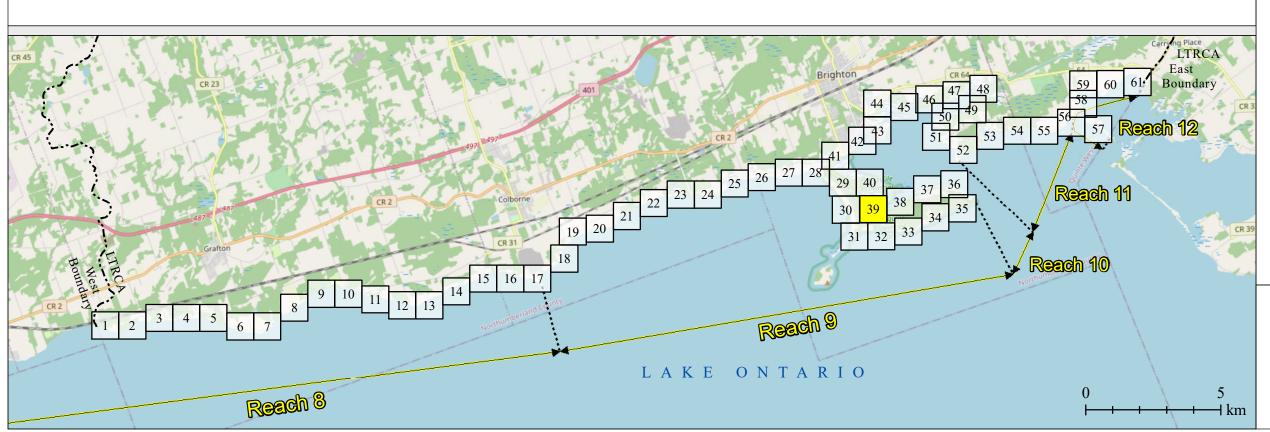






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Trenton, Ontario, K8V 5P4

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281800

281600

281400

282000

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Lower Trent Conservation Authority (LTRCA)

LEGEND:

Hazard Mapping:









Base Mapping:

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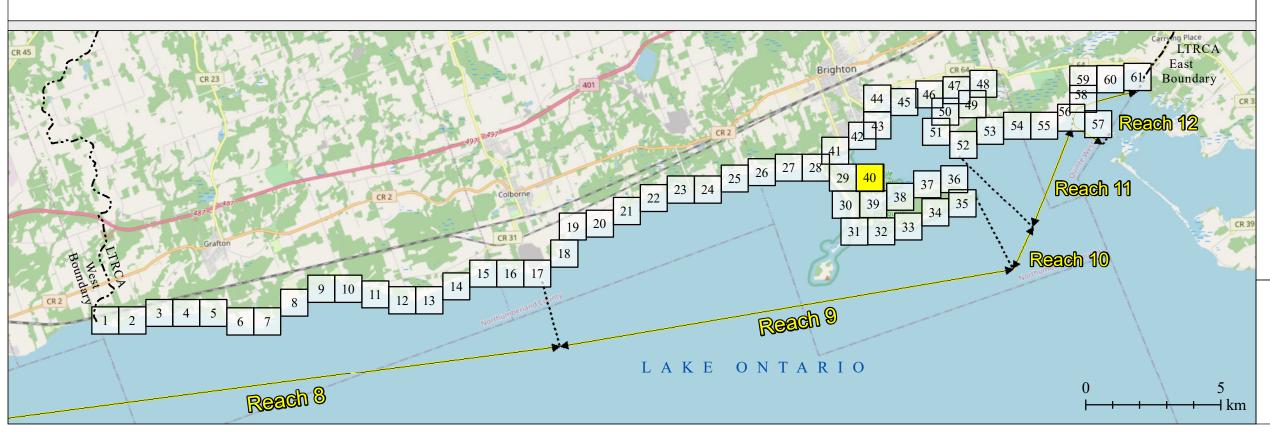




MAP PUBLISHED MARCH 2020

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