

# LAKE ONTARIO SHORELINE MANAGEMENT PLAN HAZARD MAPS

Lower Trent Region Conservation Authority (LTRCA)

LEGEND:

Hazard Mapping:

- 100 Year Flood Level
- Flood Hazard Limit
- Erosion Hazard Limit
- Dynamic Beach Setback

Base Mapping:

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

INTERPRETATION OF THE HAZARD MAPS:

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Flood Hazard Limit

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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

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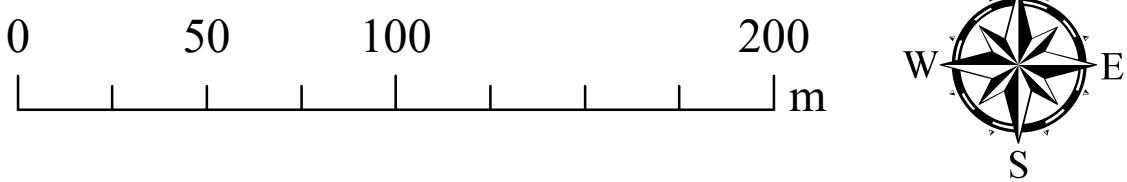
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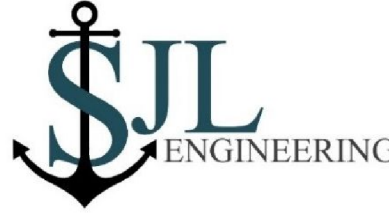
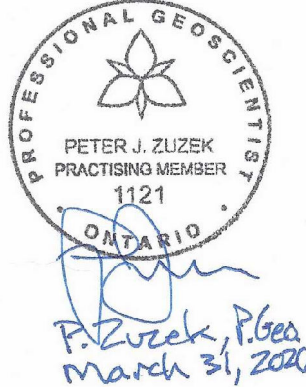
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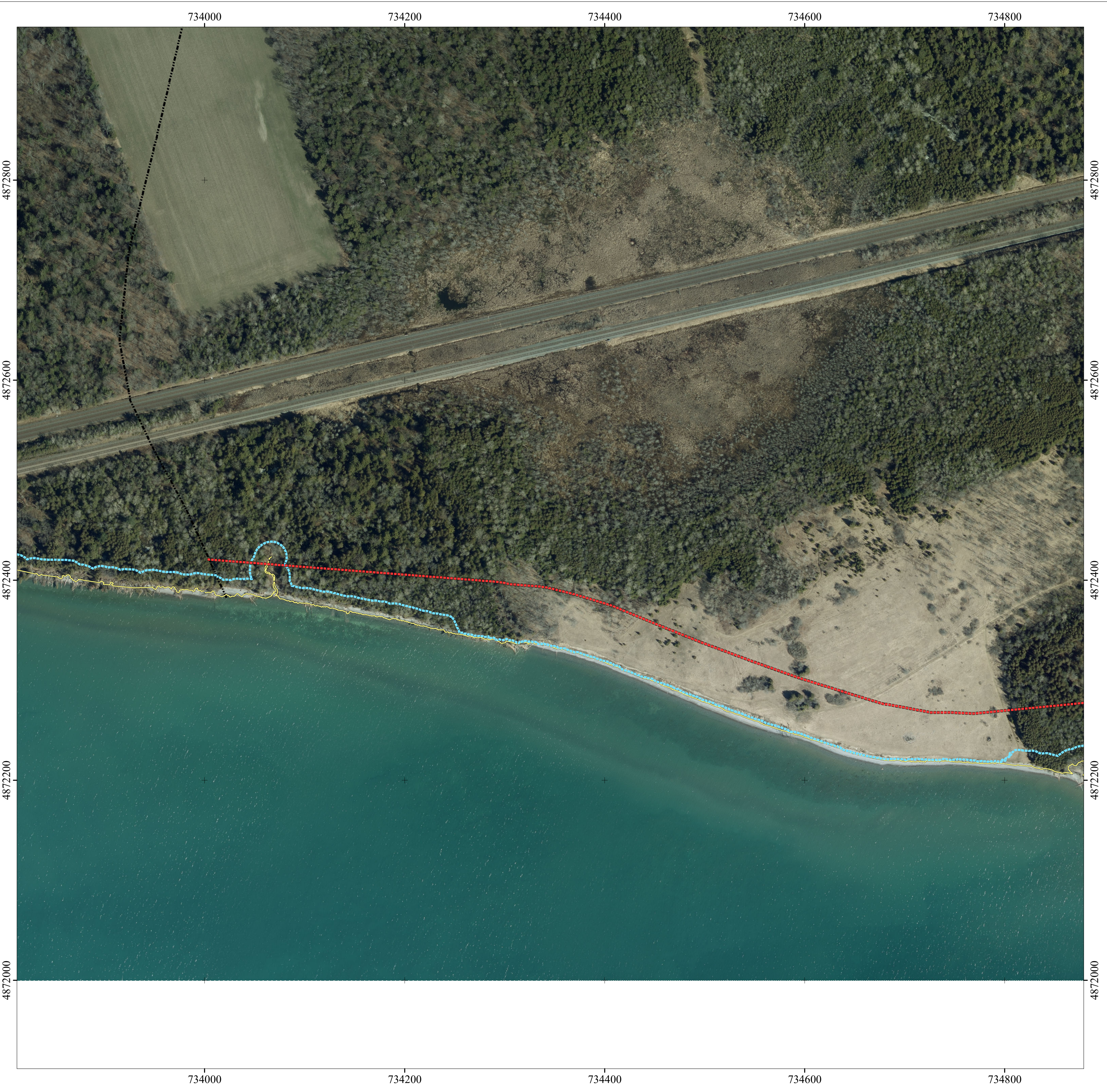
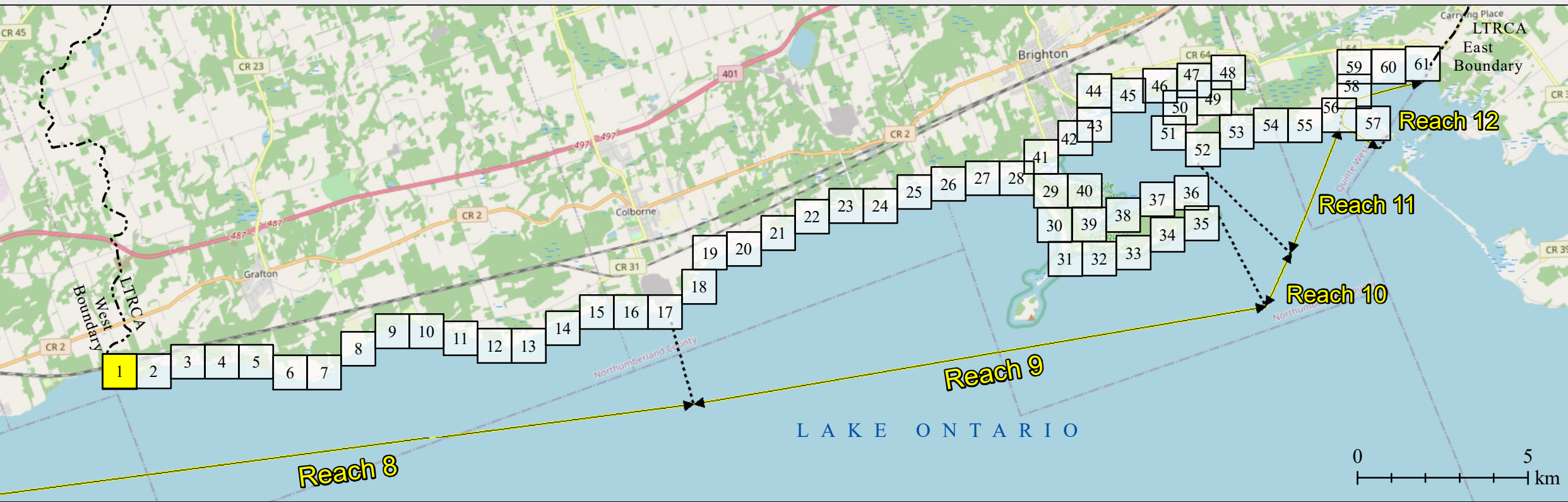


PREPARED BY:



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MAP PUBLISHED MARCH 2020



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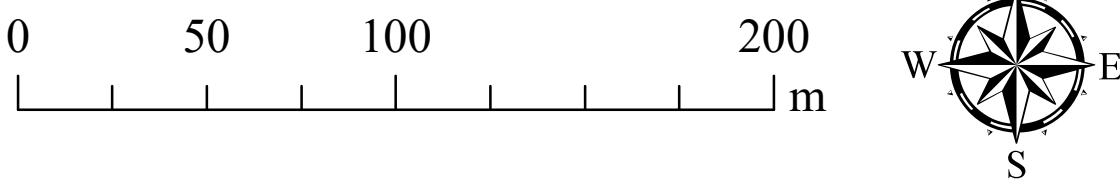
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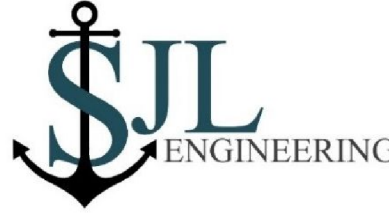
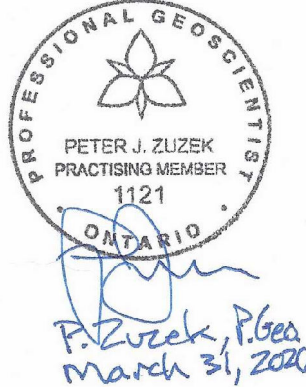
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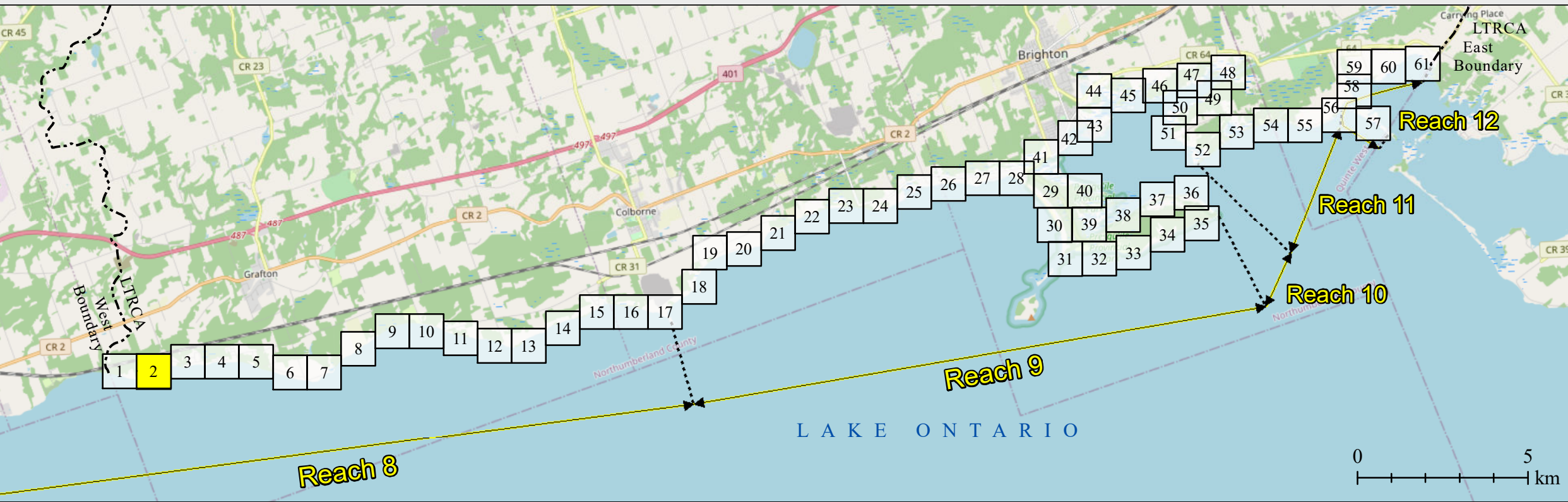


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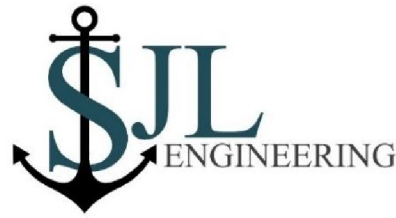
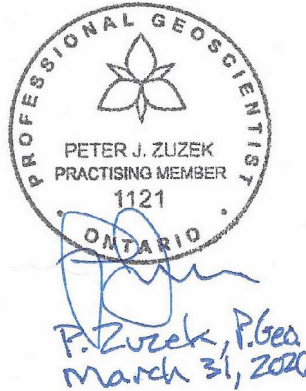
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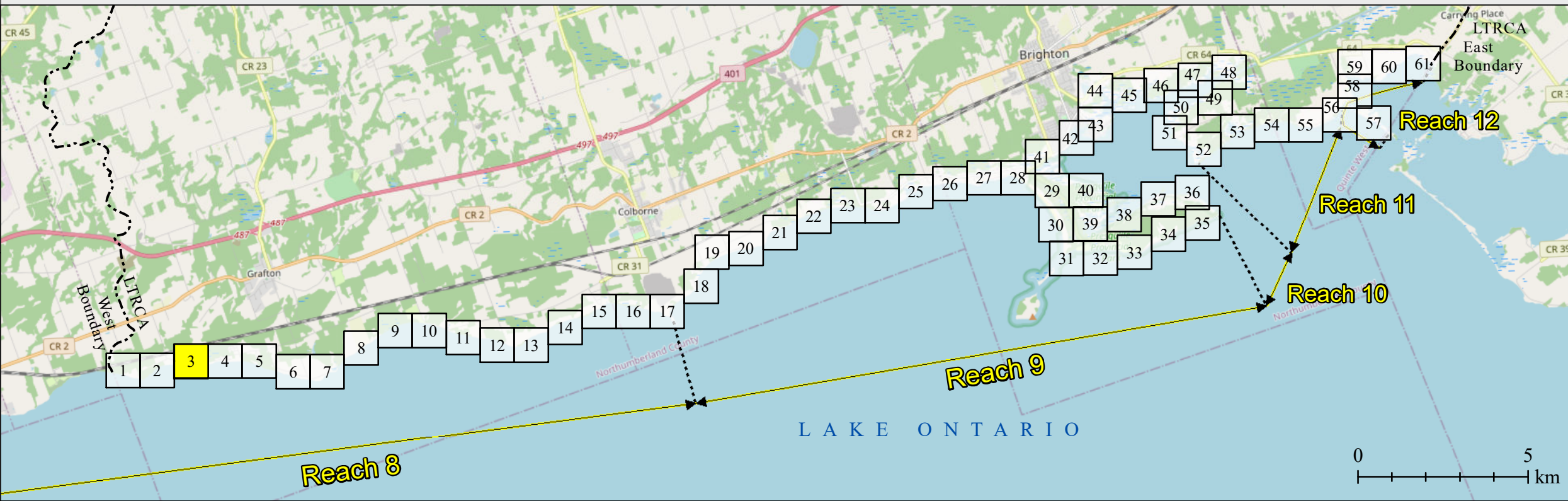
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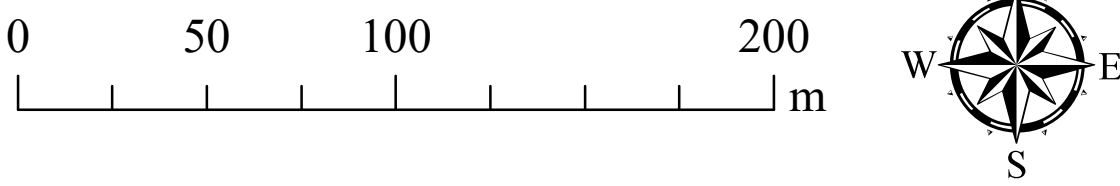
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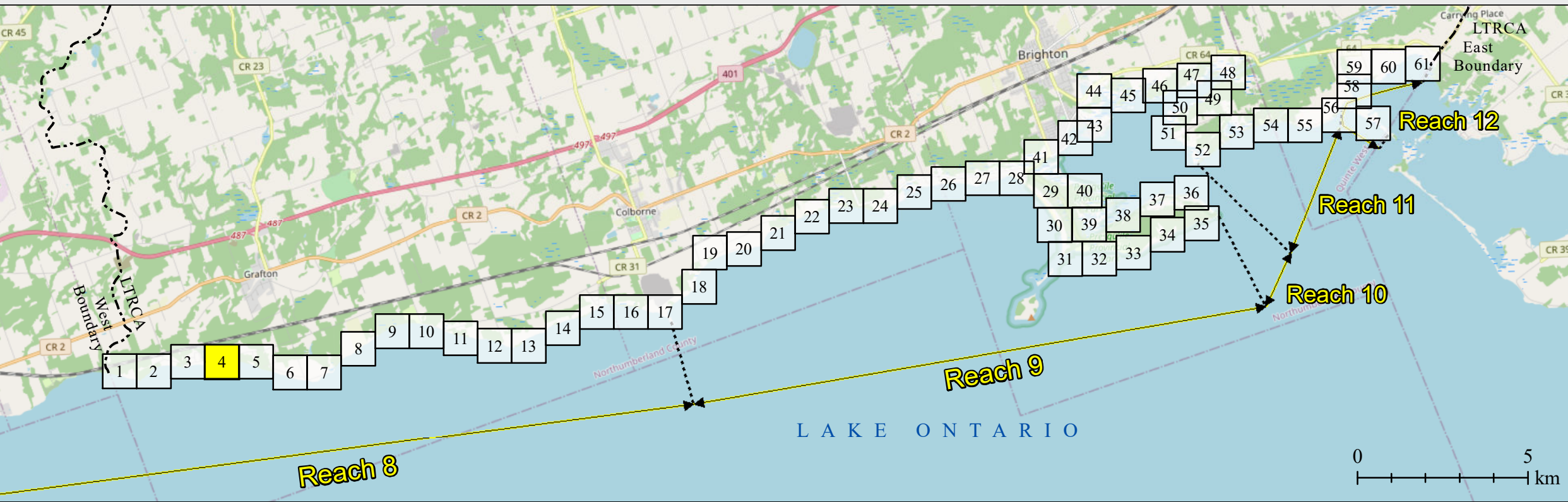


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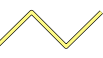





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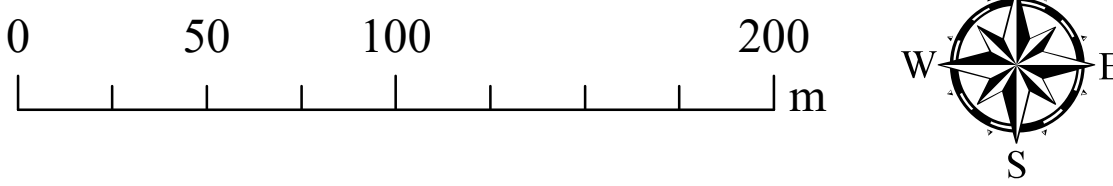
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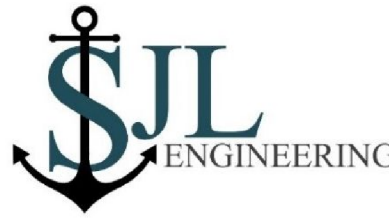
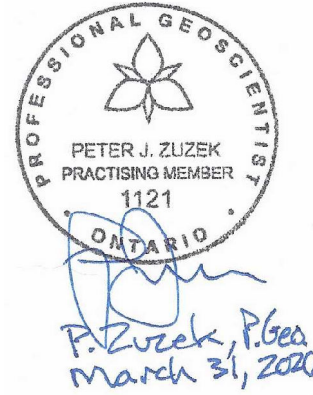
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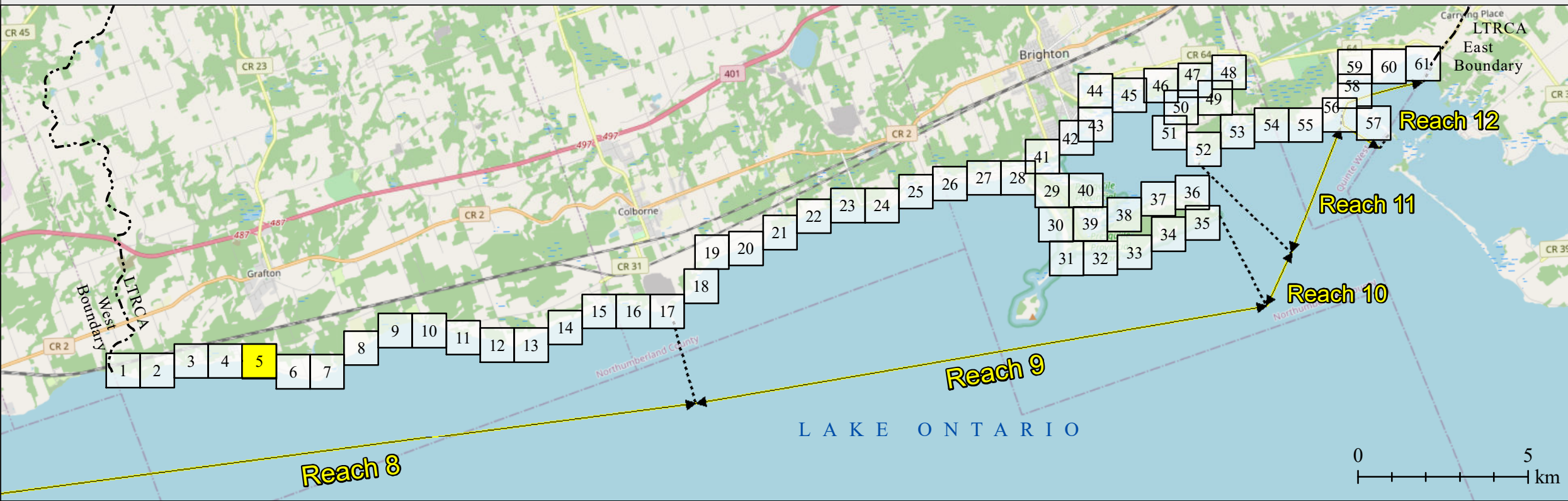


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LTRCA Map  
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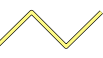





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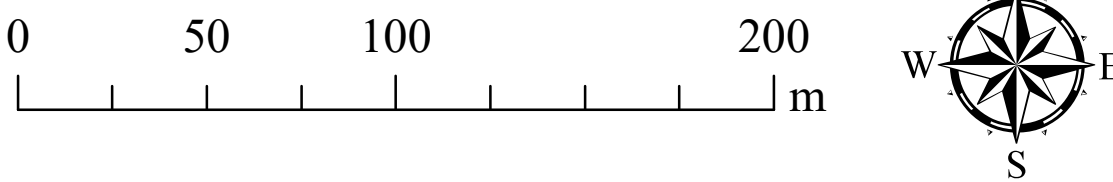
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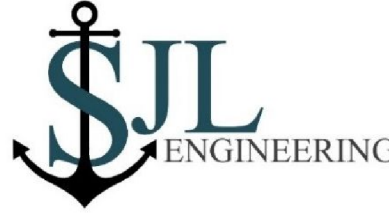
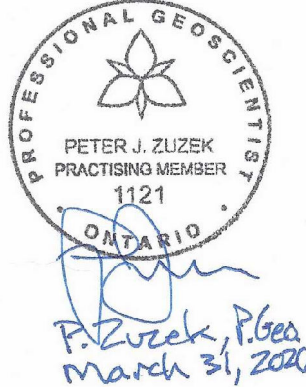
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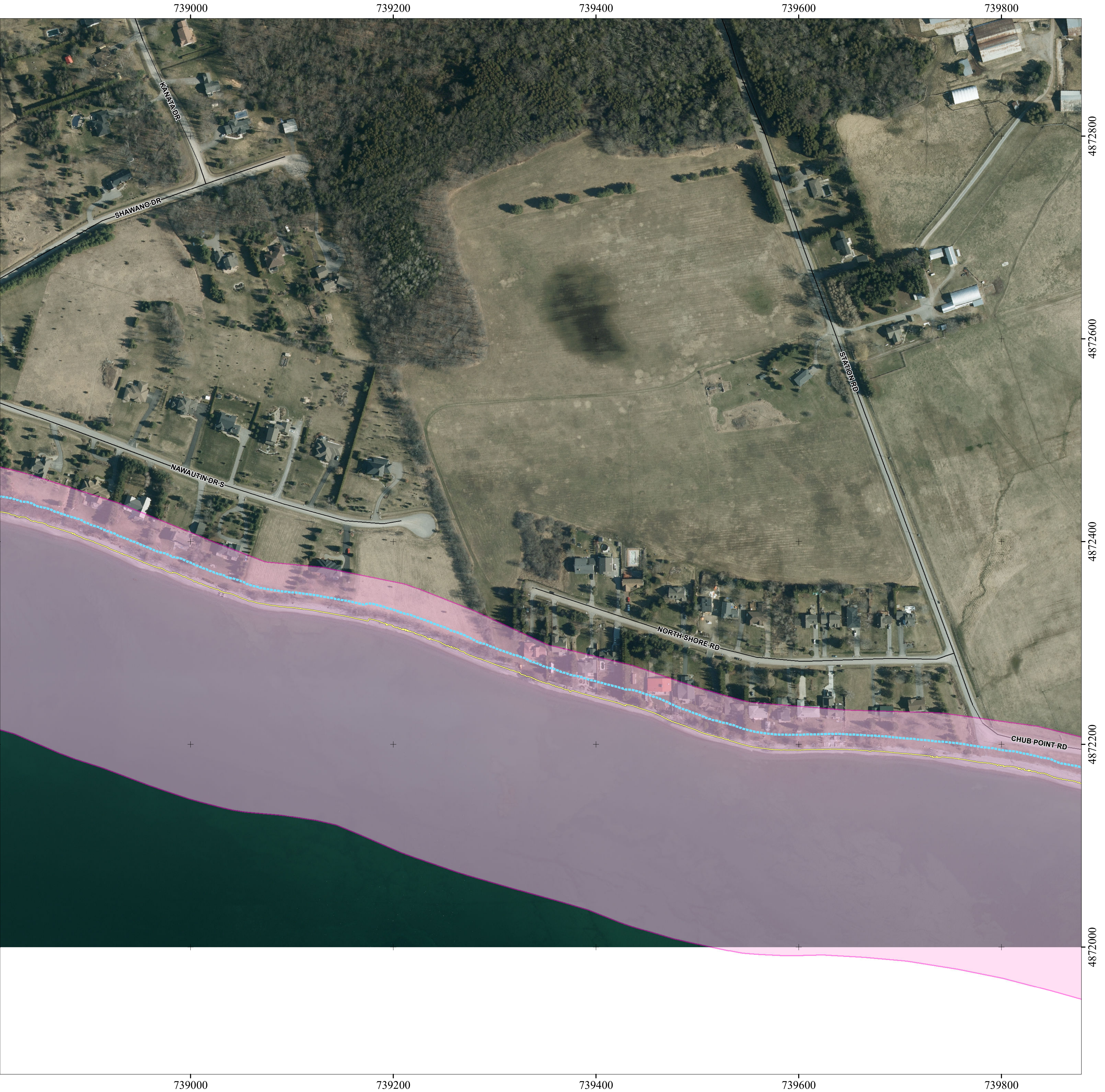
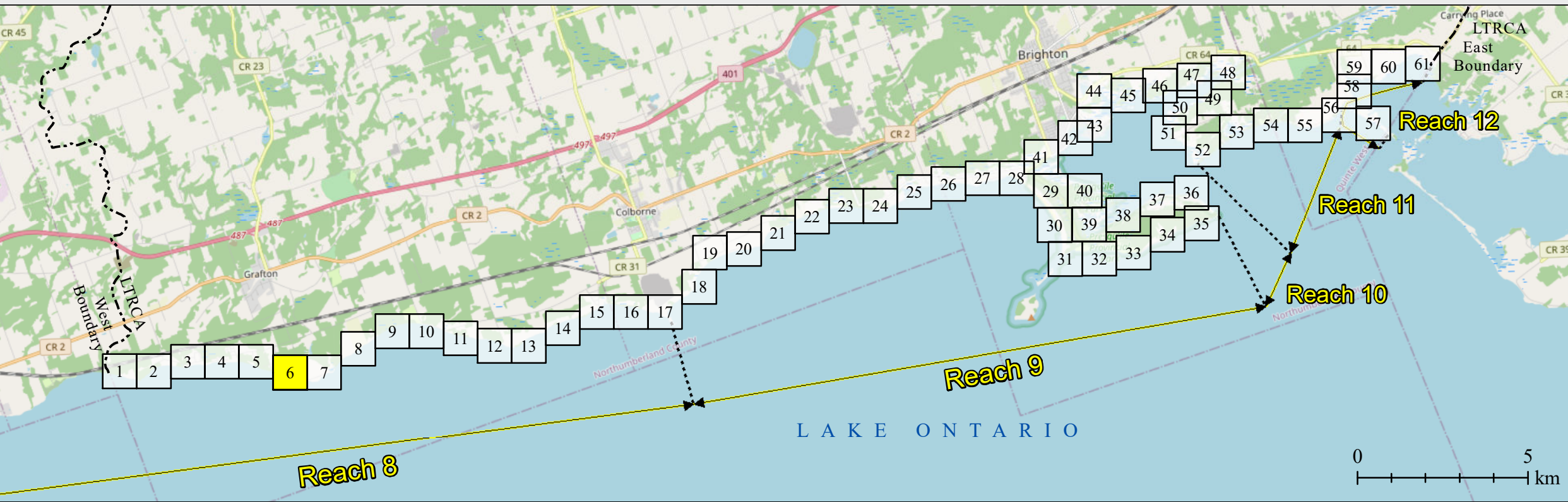


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Toe of Bluff

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.

The Erosion Hazard Limit is not mapped in sheltered waters, however, localized shoreline/riverine erosion may occur and is subject to review by the Conservation Authority.

Dynamic Beach Hazard Limit

The Dynamic Beach Hazard Limit is defined as the sum of the Flood Hazard plus 30 metres measured horizontally. Local conditions may require a modified mapping approach if the beach is eroding or a barrier beach. Refer to the Lake Ontario Shoreline Management Plan report for additional details.

DATA SOURCES:

2018 Orthophotography and Digital Surface Model (DSM) provided by the Ministry of Natural Resources and Forestry

2017 LiDAR Digital Terrain Model obtained from the Ministry of Natural Resources and Forestry. Contains information licensed under the Open Government Licence – Ontario.

2009/10 Topographic data near Prince Edward Estates provided by LTRCA.

Geographical Names obtained from Natural Resources Canada Road Network File, 2016 Census. Statistics Canada Catalogue no. 92-500-X

Inset Map: © OpenStreetMap contributors

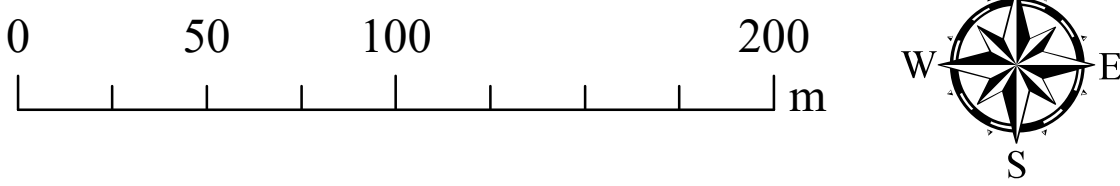
Datums:

Horizontal: UTM 17N NAD1983, metres.  
Vertical: CGVD2013, metres

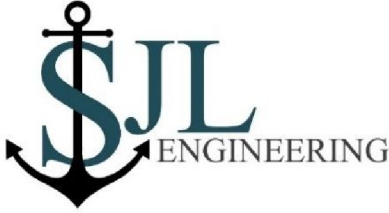
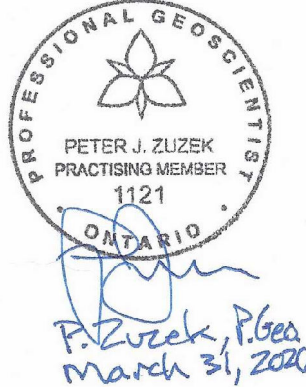
Datum Conversion:

IGLD1985 - CGVD2013 = 0.41 m (average)  
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.

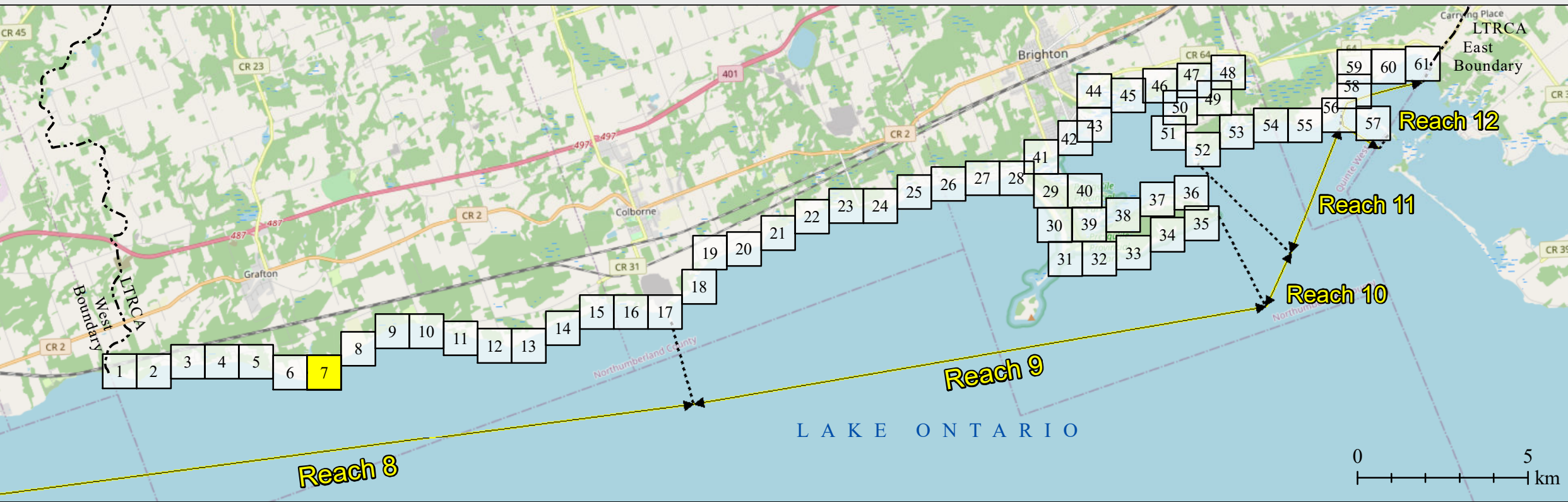


PREPARED BY:



This map was published in March 2020 for LTRCA. The mapping of hazardous lands, including erosion, flooding, and dynamic beach areas, is subject to change. The proponent of a proposed development on or adjacent to the hazardous lands should contact LTRCA to discuss permit requirements.

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