



## DURHAM

### FLOOD AND EROSION INFRASTRUCTURE - PHYSICAL

# Pickering and Ajax Dyke Detailed Design



## OVERVIEW

The Pickering and Ajax dykes protect thousands of residents, key transportation corridors, businesses, and community assets along the Lake Ontario shoreline. TRCA has completed the 2020 Environmental Assessment, now the region is ready to advance the detailed engineering design needed to fully modernize and reconstruct these critical flood protection systems. With partner investment, TRCA can translate the preferred solutions into construction ready designs that meet today's engineering standards and tomorrow's climate resilience challenges.

## OBJECTIVES

Advancing detailed design is the essential next step following the 2020 Environmental Assessment, enabling municipalities to move toward construction. Design funding delivers engineered, construction ready plans that reduce flood risk, improve climate resilience, and streamline permitting and capital planning. The objective is to produce fully engineered designs that accelerate implementation of shoreline flood protection.

## BENEFITTING STAKEHOLDERS

- City of Pickering, City of Ajax
- Durham Region
- Local residents

## EXPECTED IMPACT

- Identification of optimal design to meet needs
- Reduced risk of dike failure during extreme floods
- Increased flood protection

## BUDGET & FUNDING

**Estimated Total Cost (\$000's): \$600**

### Possible Funding Sources:

- Water & Erosion Control Infrastructure Grant
- Disaster Mitigation Action Plan Grant
- Municipal Contributions

## OWNERSHIP

- TRCA



### KEY PRIORITIES AND ACTIVITIES TO DATE

#### Key Priority: Flood Protection and Stability Upgrade

Reconstruct and modernize the dikes through engineered embankment replacement, controlled construction, and site restoration to meet current safety standards and protect the surrounding community.

This initiative requires detailed designs to proceed with implementation.



High Priority

#### Work to Date

- Class Environmental Assessment Approved - Fall 2020

### RISKS IF UNFUNDED

**Financial / Economic:** Unfunded designs increase the likelihood of emergency response, property damage, and liability costs that would significantly exceed the cost of planned reconstruction.

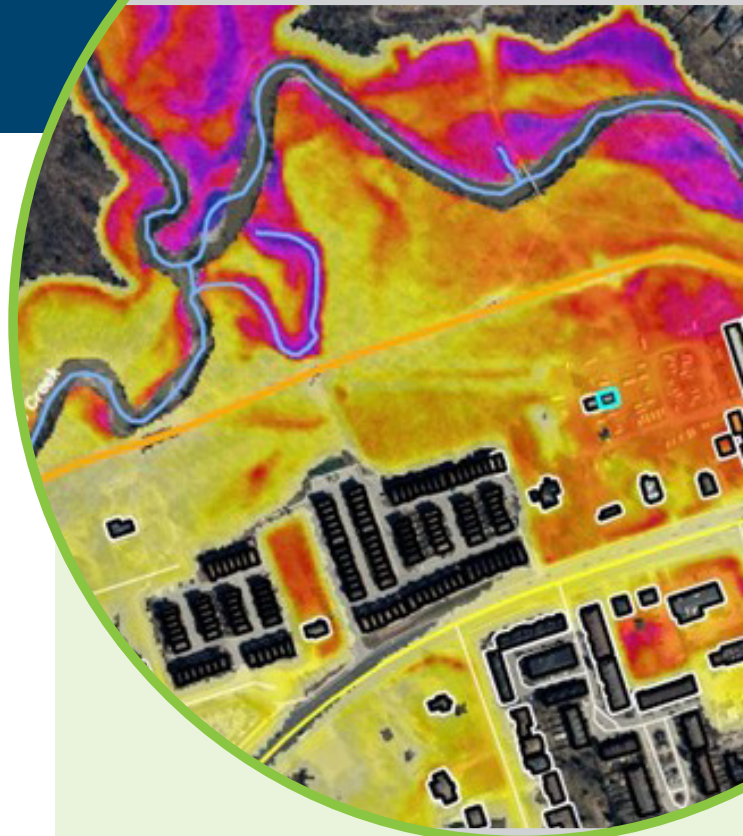
**Deferred Action Risk:** Delaying action allows continued deterioration of the dike, increasing the probability of failure and reducing the effectiveness and feasibility of future remediation efforts.

### OPPORTUNITY FOR FUNDERS

Partners investing now are enabling the region to move decisively toward modern, reliable flood protection.

Benefits include:

- Protection of residents and property across Pickering & Ajax.
- Support for municipal climate resilience goals and asset management needs.
- Reduced long-term emergency response and flood recovery costs.
- Demonstrated leadership in protecting communities from climate driven hazards.



Ajax & Pickering Dykes Modelling Map

### KEY DATES

- **Possible Start:** 2026
- **Duration:** 2 years

### CONTACT INFORMATION:

Craig Mitchell, Senior Manager  
Flood Infrastructure & Hydrometrics,  
Engineering Services  
[Craig.Mitchell@trca.ca](mailto:Craig.Mitchell@trca.ca)

