

### LOCATION

Mimico Creek one kilometre upstream from Lake Ontario south of The Queensway Ave and the Gardiner Expressway

### PROJECT START

2009

### SIGNIFICANT FEATURES

Channel repairs and barrier mitigation.

### PROJECT STATUS

The consultant has completed the analysis for the reach of concrete channel and has developed a design package for the preferred fish mitigation solution. The design package has been reviewed and approved by staff.

### NEXT STEPS

Secure funds to support project implementation. Work with City of Toronto to identify future capital projects in the area and try to integrate the Barrier Mitigation project.

### PARTNERS

TRCA  
City of Toronto

For more information visit:  
<http://trca.on.ca/the-living-city/watersheds/etobicoke-mimico-creek>

## Etobicoke & Mimico Creek Watersheds



### Project Description:

Along the 57.2 kilometres of the course of Mimico Creek there are 126 barriers to jumping fish and 145 barriers to non-jumping fish species. These structures include dams, weirs, bridge abutments, pedestrian walkways, roads and other natural barriers. Although these obstacles present to fish passage, they do help reduce invasive species such as sea lamprey and round goby from entering the creeks which threaten native fish.

The existing concrete channel was constructed in the early 1960s to control flow conveyance through the highly urbanized surrounding area, extending from approximately 80 metres upstream of the Gardiner

Expressway crossing, downstream to the Gardiner Expressway off ramp for Park Lawn Drive; a total length of approximately 230 meters. After 40 years with little maintenance, the trapezoidal channel has deteriorated and requires repairs to prevent damage to municipal infrastructure. Furthermore, it is evident that fish are failing to navigate the concrete channel and obstructions which impacts the health of the resident and non-resident fish populations and the overall health of the aquatic ecosystem.

TRCA has retained a consultant to assess the existing structural integrity of the entire trapezoidal channel focusing on the areas immediately upstream and downstream of the two weirs and in the vicinity of the storm outfalls and bridge piers. This firm has made recommendations for implementation of proposed repairs within the channel. The consultant worked with TRCA to develop design drawings for a mitigation solution that would support fish migration through this reach of the Mimico Creek and not adversely affect the structural integrity of the concrete channel due to increased loadings, shear stresses created by increased flows, debris and ice jams and freeze/thaw cycles.



# Etobicoke Creek Barrier Mitigation Project

