

Attachment 5: Priority Project List for Addressing TRCA's Flood Infrastructure Deficiencies

Dams						
Project Name	Structure	Priority	Funding Status	Potential Funding	Estimated Cost	Description
Bolton Berm Major Maintenance Phase II	Bolton Berm	High	Partially Funded	WECI	\$1,200,000	<ul style="list-style-type: none"> Berm requires raising in certain sections to meet 500-year flood protection. Berm requires rip rap protection to prevent erosion.
Stouffville Dam Embankment and Emergency Spillway Repair	Stouffville Dam	High	Unfunded	WECI/ICIP	\$450,000	<ul style="list-style-type: none"> Embankment requires rip rap buttressing on downstream slope to increase factor of safety. Emergency spillway requires erosion protection.
Palgrave Dam Major Maintenance and Overtopping Protection	Palgrave Dam	High	Unfunded	WECI/ICP/DMAF	\$1,000,000	<ul style="list-style-type: none"> Dam requires engineering design and repairs to install overtopping protection on the embankment. Stop log deck and hoisting system require upgrades to allow installation and removal of stop logs.
Glen Haffy Extension Dams Emergency Stabilization Works and Decommissioning	Glen Haffy Upper Dam and Lower Dam	High	Partially Funded	WECI/ICIP/DMAF	\$1,500,000	<ul style="list-style-type: none"> Installation of emergency stabilization works. Engineering studies and dam removal works.
Stouffville Dam Major Concrete Repair	Stouffville Dam	Medium	Unfunded	WECI/ICIP/DMAF	\$250,000	<ul style="list-style-type: none"> Emergency spillway requires erosion protection Earthen embankment does not meet factor of safety requirements Concrete requires repairs
Stouffville Channel Major Maintenance and Naturalization	Stouffville Dam	High	Unfunded	ICIP/DMAF	\$900,000	<ul style="list-style-type: none"> Removal of existing gabion basket lining and replace with natural channel materials.
Pickering/Ajax Dyke Reconstruction	Pickering Dyke/Ajax Dyke	High	Unfunded	ICIP/DMAF	\$12,600,000	<ul style="list-style-type: none"> Reconstruct dykes to meet current engineering guidelines.
Black Creek Dam Spillway Pipe Modification	Black Creek Dam	Medium	Unfunded	WECI/ICIP/DMAF	\$1,000,000	<ul style="list-style-type: none"> Modify spillway pipe to eliminate debris blockages.
G. Ross Lord Dam Gate Optimization and Operational Study	G. Ross Lord Dam	Medium	Partially funded	WECI/ICIP/DMAF	\$350,000	<ul style="list-style-type: none"> Engineering study to maximize G. Ross Lord Dam's reservoir storage for short duration, high intensity storms.
Secord Dam Decommissioning	Secord Dam	Medium	Unfunded	ICIP/DMAF	\$1,100,000	<ul style="list-style-type: none"> Engineering studies and dam removal works.
Osler Dam Decommissioning	Osler Dam	High	Unfunded	ICIP/DMAF	\$300,000	<ul style="list-style-type: none"> Engineering studies and dam removal works.
Glen Haffy Dam East and Glen Haffy West Dam Safety Review	Glen Haffy Dam West Glen Haffy Dam East	Low	Unfunded	WECI	\$100,000	<ul style="list-style-type: none"> Undertake Dam Safety Review of both dams.

Woodbridge Grade Control Structure Removal (Board of Trade Weirs)	Woodbridge Channel	Low	Unfunded	ICIP/DMAF	\$1,000,000	<ul style="list-style-type: none"> • Engineering study and removal of two grade control weirs.
G. Ross Lord Dam Safety Review	G. Ross Lord Dam	Low	Funded	WECI	\$170,000	<ul style="list-style-type: none"> • Undertake Dam Safety Review
Claireville Dam Major Maintenance	Claireville Dam	Low	Unfunded	WECI/ICIP/DMAF	\$7,000,000	<ul style="list-style-type: none"> • Enlarge spillway apron for extreme flows. • Upgrade gate hoisting systems. • Repair spillway wall.
Milne Dam Major Maintenance	Milne Dam	Medium	Unfunded	WECI/ICIP/DMAF	\$2,700,000	<ul style="list-style-type: none"> • Install overtopping protection to earthen embankment. • Enlarge spillway apron for extreme flows. • Increase factor of safety for spillway and wing walls.
Total					\$31,620,000	