Inspiring and Supporting Protection of our Great Lakes

To Great Lakes Commission

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Integrated Water Management Study Found

• WWTP upgrade = $25.5 Million
• SWM Retrofitting = $15.5 Million
HIGH INTENSITY SHORT DURATION STORMS
July 8, 2013 – More dwellings in the floodplain

What does that mean for future development?
Mississauga resident living in tent since flood

Ken Hills, 60, is one of hundreds living near Cooksville Creek displaced since last week's storm.
58% of Canadians think municipalities are upgrading systems to handle excess stormwater.
REALITY: 60-75% of GTA was built prior to flood control
Real-time Water Quality Monitoring

Healthy Freshwater Creek
Less than 100mg/L

Ocean
20,000 mg/L

Urban Creeks
>20,000 mg/L
Need to go from Grey-to-Green

Industrial & Commercial Lands

Residential Lands

Road Right of Ways

Public Lands
Savings of 25% compared to conventional practices when land costs are considered
“This project will remedy a number of challenging maintenance issues and reduce our operating costs”

Nancy Cole - IMAX
LID is good for business

- Able to retain more than half of the July 8\textsuperscript{th} storm!
- Onsite SWM = Added Security and Reduce stress on municipal system
- Reduce slips/falls – average WSIB is $22,000
Projected growth in LID revenue

Local green business revenue is projected to grow up to 40% in the next 5 years.
Summary

• More Extreme Events will impact our economy, public health, environment
• Extreme events are highlighting the interconnections between water, wastewater and stormwater demonstrating the need for an integrated approach on a watershed basis
• Land-use Planning needs to consider infrastructure vulnerability, needs to be adaptive
• Need to add stormwater management into existing urban areas
• Need monitoring to minimize risk, demonstrate accountability, inform adaptation plans
What’s needed to assist municipalities

• Need regulations to require municipalities to integrate water management on a watershed basis
• Tools are needed to support asset and risk mgt decisions made from instream and nearshore targets
• Funding requirements need to include demonstration of sustainable funding mechanisms for long term monitoring, asset mgt and maintenance
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Together, it’s our nature to conserve and our future to shape.