



Urban Water Management Perspectives

Sources At Risk

Latornell Symposium

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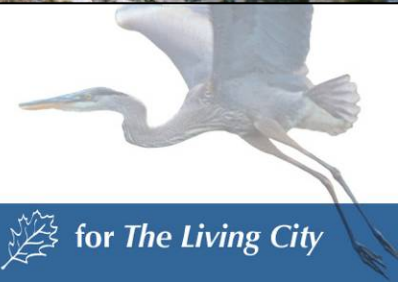
Urban Water Management Issues





Urban Water Management Issues

Erosion





Urban Water Management Issues

Water Quality





Urban Water Management Issues

Too little water





Watershed Connections

Everyone lives downstream from somebody



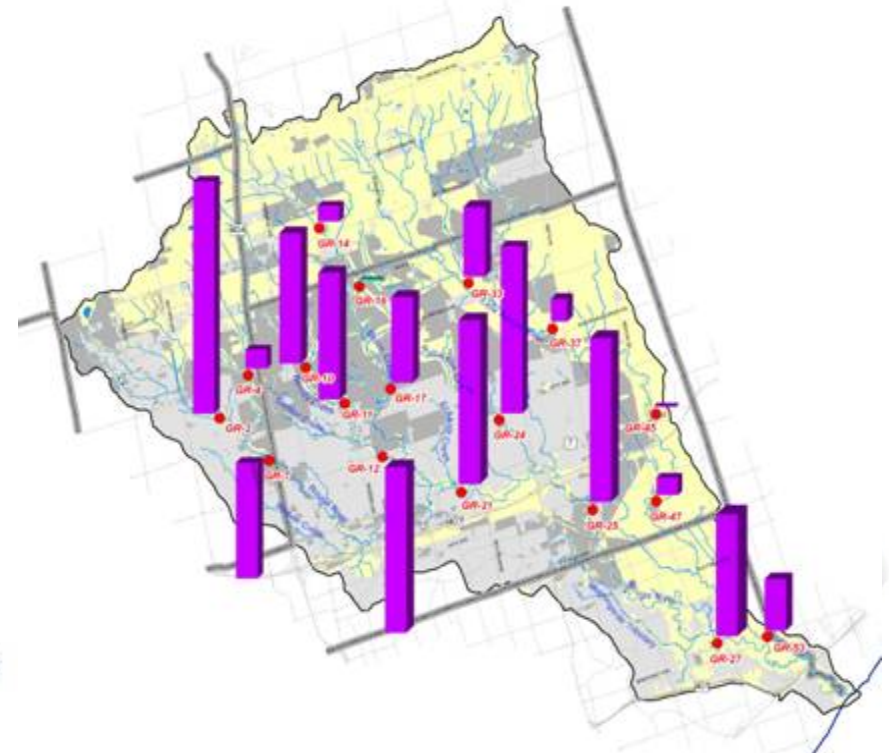
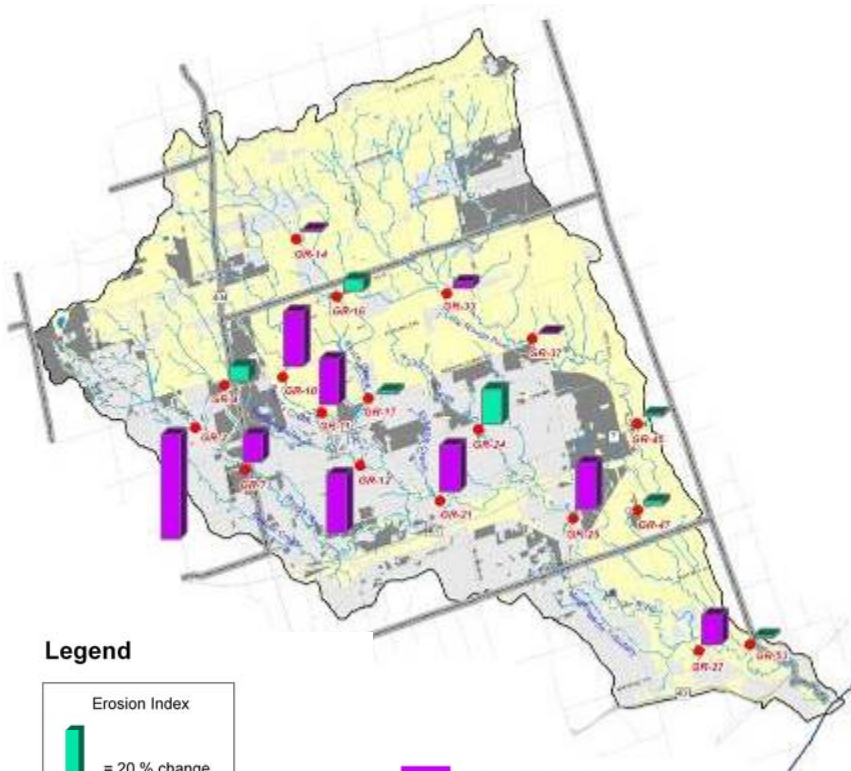


Urban Water Management Issues

Effect of Build Out on Erosion Potential – Rouge Watershed

Effect of Official Plan Build-Out (2002 baseline)

Effect of Full Build-Out Current Practice (2002 baseline)



Legend

- Erosion Index**
 - = 20 % change
- Erosion Threshold Station
- Retrofit Pond
- Decrease in Erosion
- Increase in Erosion
- Baseline Urban
- Additional Modelled Urban
- Baseline Natural Cover
- Additional Modelled Natural Cover

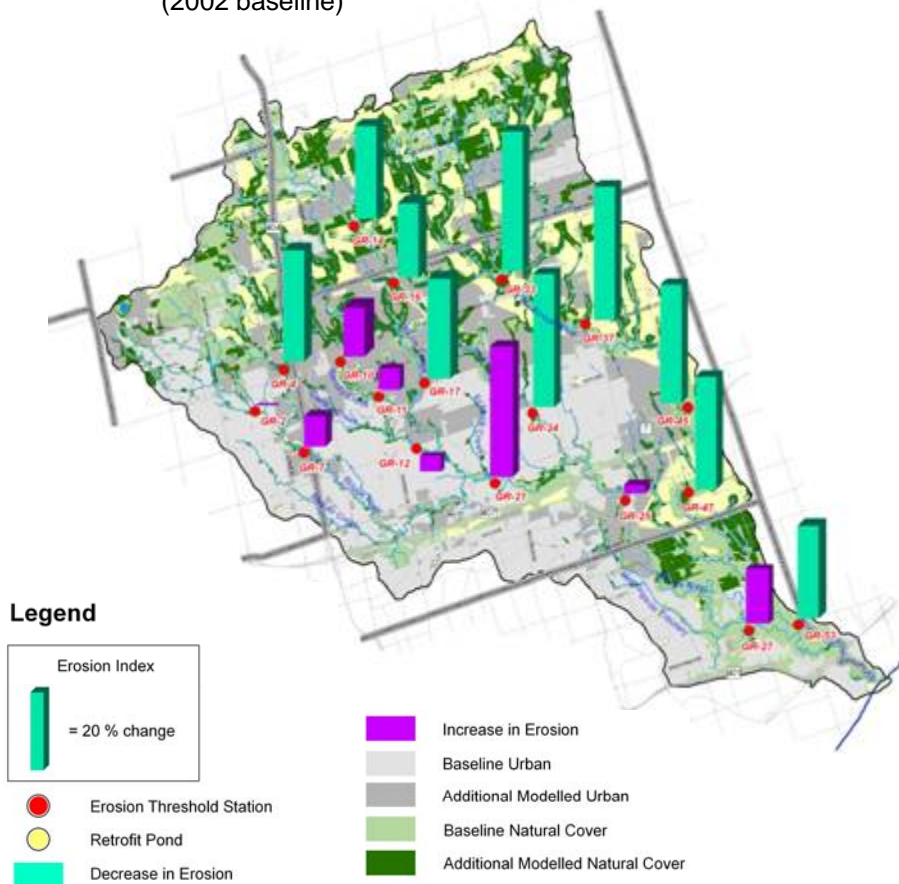




Urban Water Management Issues

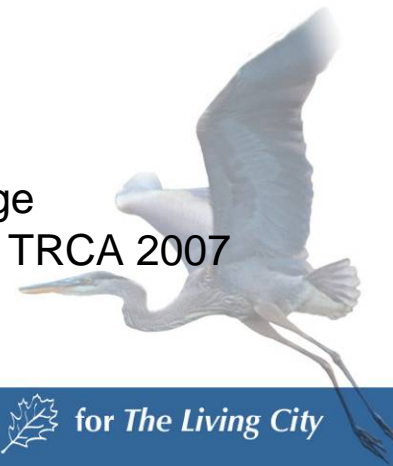
Key Water/Erosion Management Strategies

Effect of "Sustainable Community"
(2002 baseline)



1. Increase natural cover.
2. Maintain water balance.
3. Build "sustainable" communities.

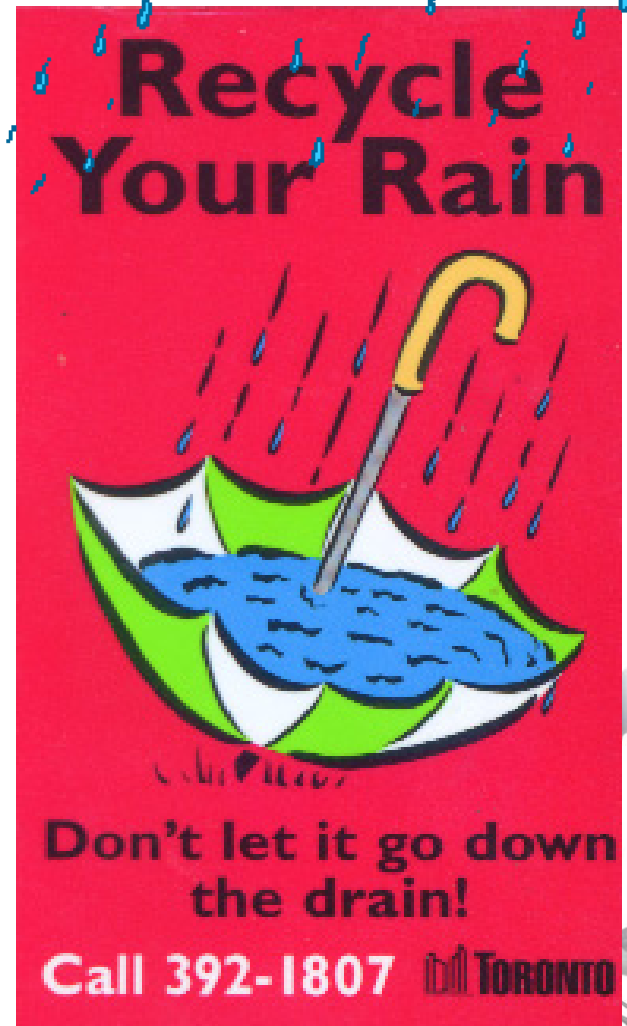
Taken from Rouge
Watershed Plan, TRCA 2007



Urban Water Opportunities

Water as a Resource

- Paradigm shift needed
- Water as a *system* instead of environmental, storm, potable and sewage sources
- Seen waste and storm water as a nuisance
- Manage on a watershed basis to see the bigger picture





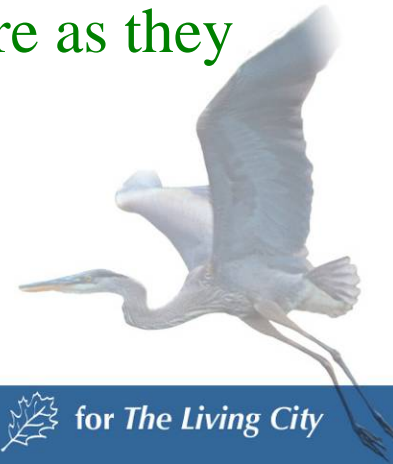
One Water Paradigm Shift

Green working with grey

- Green Infrastructure
 - Urban Forest
 - Low Impact Development

“It’s a fundamental shift in thinking....to get governments to regard green infrastructure as they do other infrastructure investment.”

John Griffin, Former Maryland Secretary of Natural Resources





Integrated Approach

- Source, Conveyance and End-of-Pipe Measures as a system
- Integrated with other infrastructure and urban planning and design





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