Green Infrastructure Policies and Guidelines in Toronto







2016 DEVELOPMENT REVIEW

This development map highlights the City's new projects, Committee of Adjustment applications and heritage permits over the past year across each of our four Planning Districts.

o new development projects

committee of adjustment

heritage permits



YORK

new development projects

1,087 committee of adjustment applications

110 heritage permit applications

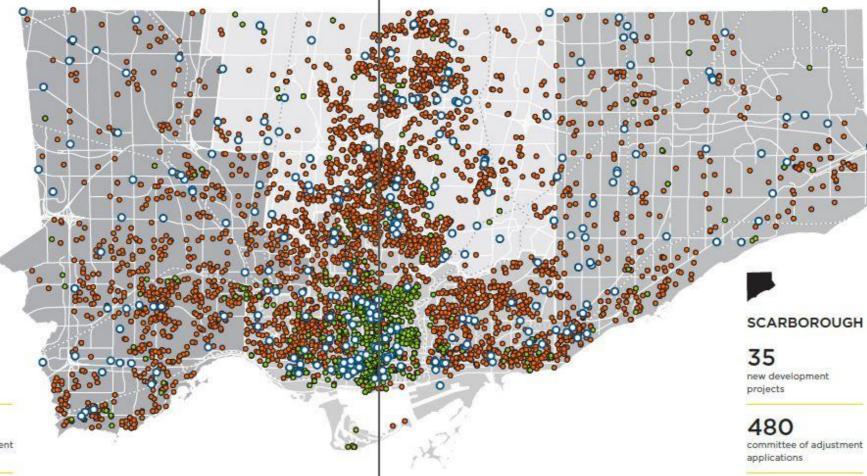


NORTH YORK

69 new development projects

1,239 committee of adjustment applications

123 heritage permit applications



TORONTO

103

projects

1,388

applications

1,989

applications

heritage permit

35

heritage permit

applications

committee of adjustment

EAST YORK

new development

Toronto's Future Weather







TEMPERATURE MAXIMUM

44°

celsius

2040-50

37°

2000-09



HOT DAYS

66

above 30°

2040-50

20

2000-09



EXTENDED HEAT WAVES

2.5

per year

2040-50

0.6

2000-09



66

2000-09

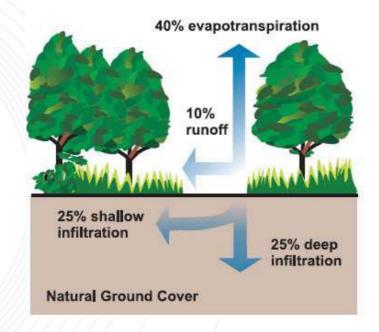


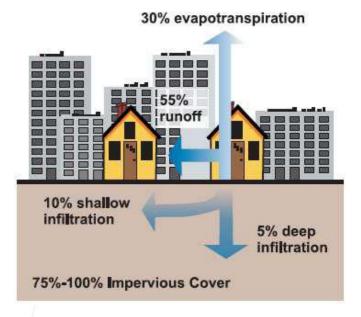
We want to be a Sustainable (resilient, low carbon, greenest) City...

Moving to Grey +Green

Green Infrastructure can help manage stormwater by:

- Reducing volume;
- Reducing Peak Flow;
- Improving Water Quality;
- Delaying flows;
- Extending the lifespan of existing infrastructure

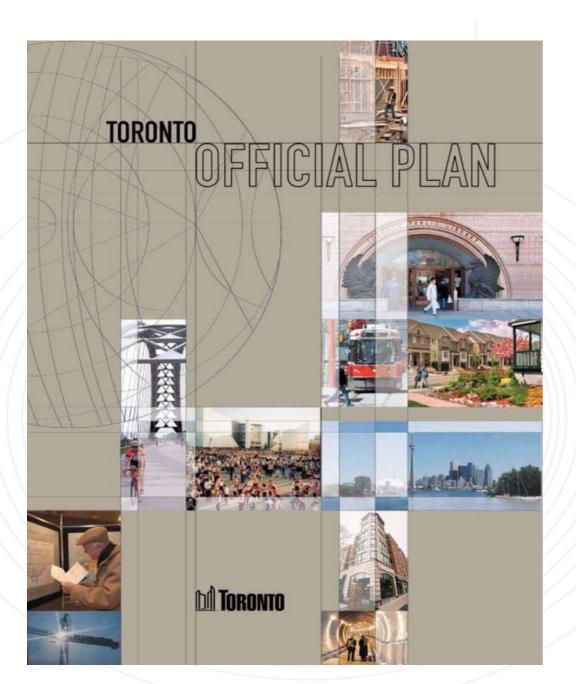




Grey + Green can also ...

- Enhance the extent and health of the urban forest;
- Mitigate the urban heat island effect;
- Enhance air quality;
- Support biodiversity/pollinators;
- Create habitat connections

- Create new community spaces;
- Create jobs;
- Calm traffic; and
- support mental and physical health



"Green Infrastructure:

Green infrastructure means natural and human-made elements that provide ecological and hydrological functions and processes. Green infrastructure may include components such as natural heritage features and systems, parklands, stormwater management systems, street trees, urban forests, natural channels, permeable surfaces, and green roofs."



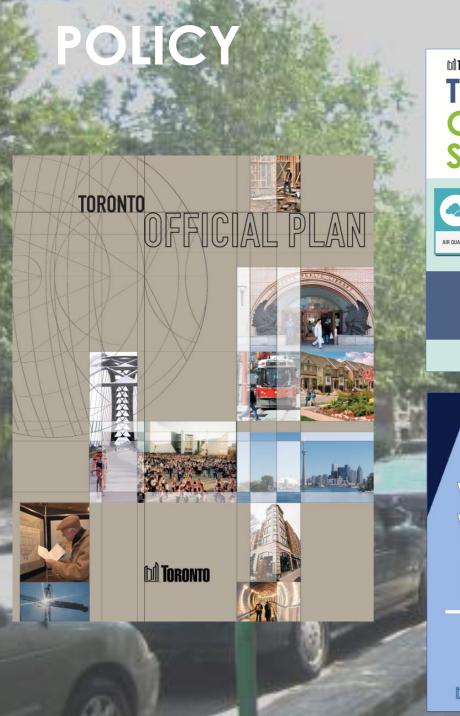
OPA 262: Chapter 3: Natural Environment

Policy 3.4.1: To supporting strong communities... public and private city building activities...will be environmentally friendly...

- impacts of climate change on biodiversity and ecosystem health
- reduce greenhouse gas emissions
- consider impacts of climate change that may increase risk associated with natural hazards
- promote green infrastructure to complement infrastructure







M Toronto **TORONTO GREEN** STANDARD v3















SUSTAINABILITY REQUIREMENTS FOR NEW DEVELOPMENT IN TORONTO

City Facilities

Wet Weather Flow Management

Guidelines



November 2006



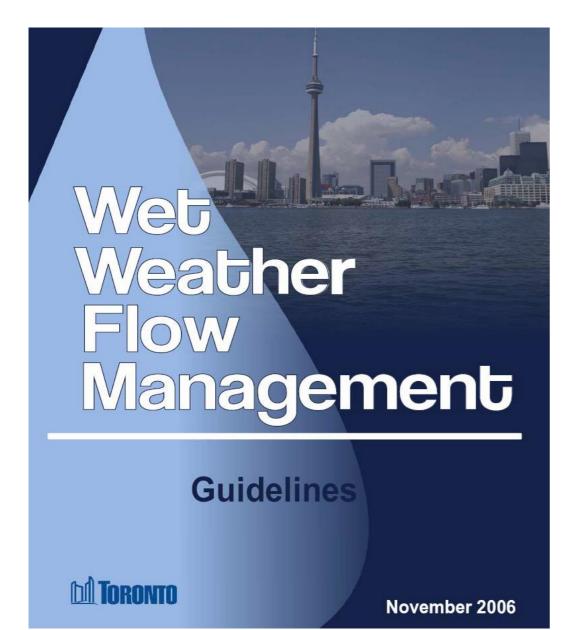
Design Criteria for Sewers and Watermains



First Edition November 2009

MTORONTO

Changing Stormwater Management Guidance





Toronto Green Standard Sustainable performance for new development



- 2010-TGS V1.0 & TGS Development Charge Refund
- TGS 2014- V2.0 Update
- TGS 2018- V3.0 Update
- Green Infrastructure is a tool to achieve multiple performance objectives in the TGS

Toronto Green Standard Version 3



Toronto Green Standard Version 3



- •Tier 1 required through planning process
- •Tier 2 voluntary higher performance incented through DC refund.
- •New Tier 3: energy, water, waste
- •New Tier 4 energy & GHG targets



TORONTO

GREEN STREETS TECHNICAL GUIDELINES

Version 1.0

NOVEMBER 2017

Schollen & Company Inc. Urban Forest Innovations TMIG DPM





