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**To:** Public Works & Transportation Committee      **Date:** March 23, 2005  
**From:** Greg Scott, P. Eng., LEED A.P.  
Director of Operations      **File:** 10-6000-01/2005-Vol 01  
**Re:** **Outline of the National Guide to Sustainable Municipal Infrastructure**  
**(Infraguide)**

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#### Purpose

To provide a high level outline of the Infrastructure Guide to Committee and to give a perspective on the types of sustainable practices that the City may consider.

#### Best Practices

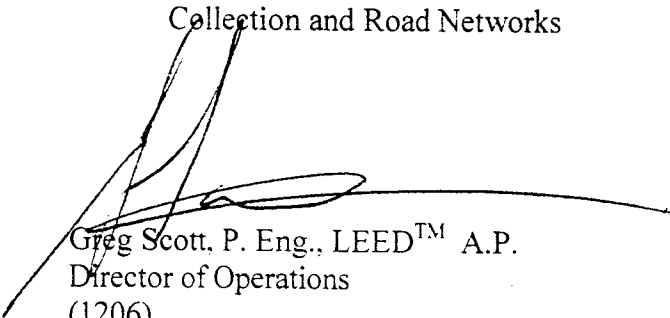
The best experience and knowledge in Canada is summarized in best practice reports. These Infraguide publications help decision-makers and technical staff—in the public and private sectors—make informed, smart decisions about maintaining, repairing and upgrading the infrastructure that sustains our quality of life. These practices can be categorized in the following broad areas:

- Decision Making and Investment Planning
- Potable Water
- Storm and Wastewater
- Roads and Sidewalks
- Environmental Protocols
- Multi-discipline
- Transit

The following lists the 30 Best Practice titles, which are electronically available to the City:

- Deterioration and Inspection of Water Distribution Systems
- Timely Preventive Maintenance of Municipal Roads
- The Construction of Utility Boxes in Pavements
- The Restoration and Repair of Utility Boxes in Pavements
- Planning and Defining Municipal Infrastructure Needs
- Alternate Funding Mechanisms
- Developing Service Levels
- Developing Indicators and Benchmarks
- Guidelines for Sealing and Filling Cracks

- Water Use and Loss in the Water Distribution System
- Selection of Technologies for the Rehabilitation or Replacement of a Water Distribution System
- Inflow/Infiltration Control/Reduction for Wastewater Collection Systems
- Wastewater Source Control
- Source and On-Site Control for Municipal Drainage Systems
- Best Practice for Utility Based Data
- Developing a Water Distribution Renewal Plan
- Rut Mitigation Techniques at City Hall
- Water Quality in the Distribution System
- Establishing a Metering Plan to Account for Water Use and Loss
- Decision Making Criteria for Repair and Rehab on Pavements
- Maintenance Procedures for Road Drainage
- Optimization of Wastewater Treatment Plants
- Bio-Solids Management
- Corporate Environmental Commitment and Policy
- Environmental Impact Assessment
- Environmental Cost Benefits
- Integration of Renewal Activities
- Application for Investment Parameter in Support of Municipal Infrastructure Reinvestments
- Inspection, Condition Assessment and Evaluation of the Water Distribution, Sewer Collection and Road Networks



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pc: Jeff Day, General Manager, Engineering and Public Works