

Illinois' Approach to Stormwater and Green Infrastructure

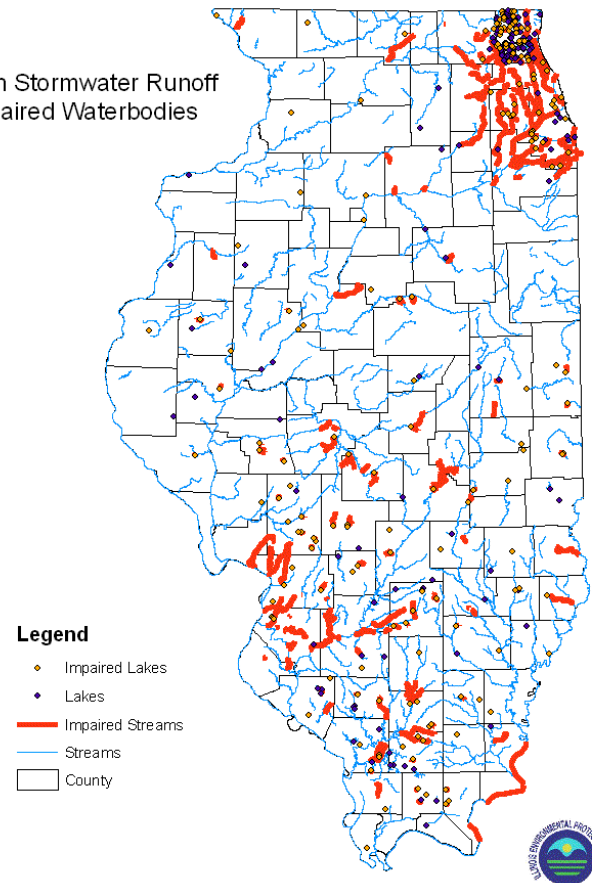
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Session B4: Stormwater Management in Urban Landscapes

Stormwater Issues

- Flow Volume & Velocities
- Erosion (bank & channel)
- Sedimentation
- NPS Pollution
- Combined Sewer Overflows
- Lack of Groundwater Recharge
- Lake & Stream Water Levels (high & low)

Urban Stormwater Runoff
Impaired Waterbodies



Traditional Stormwater Practices

- Designed to catch, manage & convey runoff



- Curbs & Gutters
- Stormwater Grates & Catch Basins
- Detention and Retention Basins
- Stormwater Sewer Systems
- Oil & Grit Separators
- Outfall & Control Structures

What is Green Infrastructure?

- Any stormwater management technique or practice employed with the primary goal of preserving, restoring, mimicking, or enhancing natural hydrology.
- Green infrastructure includes, but is not limited to, methods of using soil and vegetation to promote soil percolation, evapotranspiration, and filtering or the harvesting and reuse of precipitation.

Green Infrastructure for Clean Water Act

- Public Act 096-0026 (June 30, 2009)
- Develop a report for the General Assembly by June 30, 2010
- Report evaluates and documents the following:
 - Extent of stormwater runoff impacts
 - Potential for performance standards
 - BMPs to achieve standards
 - Existing green infrastructure BMPs
 - GREEN versus GREY infrastructure
 - Potential for regulatory program
 - Integration with existing programs
 - Adoption by community stakeholders
 - Devoting 20% of State Revolving Fund



Illinois Green Infrastructure Study

- University of Illinois at Chicago - project lead
- Partners - CMAP, CNT, IL-IN Sea Grant College Program
- Expert Advisory Group
- Results delivered through
 - IEPA Stakeholder Workshop
 - Public Meetings
 - Study Report

USING GREEN INFRASTRUCTURE TO
MANAGE URBAN STORMWATER QUALITY:
A Review of Selected Practices and State Programs

A REPORT TO THE
ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
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Study Recommendations 1-3

- Stormwater Volume Retention Performance Standards
 - adjustable to site conditions
- Long-Term Implementation Goal
 - phase-in green infrastructure practices
 - use a portfolio standard
 - (Example - renewable energy)
- Locate Green Infrastructure on Public and Private Property, including
 - New development
 - Redevelopment
 - Maintenance, repair and replacement activities



Study Recommendations 4-6

- State Revolving Fund, earmark funds and develop project prioritization system
- Encourage local agencies to charge fees for managing and maintaining stormwater facilities
 - Treat Green Infrastructure practices as a credit against such fees
 - Periodic performance monitoring and reporting required
- Training program for county and municipal staff responsible for urban stormwater management



Work in Progress

- Performance Standards
- Illinois Urban Manual
- State Revolving Fund
- Illinois Green Infrastructure Grant Program (IGIG)



Illinois Green Infrastructure Grant Program (IGIG)



- Total Program Allocation
 - \$5 Million
- Three Project Categories
 1. Combined Sewer Overflow Rehabilitation
 2. Stormwater Retention and Infiltration
 3. Green Infrastructure Small Projects

Illinois Green Infrastructure Grant Program (IGIG)

- Eligible recipients
 - Local units of government
 - Other organizations
- Eligible project must be located within
 - Municipal Separate Storm Sewer System (MS₄)
 - Combined Sewer Overflow (CSO) area



Illinois Green Infrastructure Grant Program (IGIG)

- Reimbursement program
- Education and monitoring costs are not eligible for grant or match.
Administrative costs are low priority
- Application Deadline
December 15, 2011



www.epa.state.il.us/water/financial-assistance/igig.html

Other Actions...

- Illinois NPS Management Program Update
- TMDL/WBP Implementation
- Construction Site Erosion Control Inspections and Outreach (Illinois EPA & SWCD)
- U.S. EPA – Update Stormwater Permit
- U.S. EPA – Water Quality Score Card



**Not the
END...**

**Just the
Beginning!**

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Protection
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