

Mainstreaming Green Solutions in Urban Wet Weather Control Programs

Presented by:

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KEY ISSUES

- Regulatory
- Green Performance
- Ownership of Green
- Maintenance
- Municipal Approaches

Regulatory

- Consent Decrees
- LTCP's
- Schedules

Regulatory

Kansas City, MO

“EPA encourages the City to propose revisions to Appendix "A" to utilize green infrastructure as appropriate to reduce or replace gray Control Measures included in Appendix "A," provided that any green measures proposed provide the same or greater level of control as those gray Control Measures to be reduced or replaced.”

Regulatory

Kansas City, MO

“**Stipulated penalties will not accrue** and become payable in the event that an approved Green Infrastructure Project Proposal, once implemented, fails to meet the Performance Criteria set forth in Appendix "A," provided that the City proposes additional Control Measures designed to meet the Performance Criteria that are approved by EPA, and/or the City petitions EPA for a change in the Performance Criteria, and that request is approved by EPA.”

Regulatory

NEORSD, Cleveland, OH

“The Green Infrastructure Plan shall propose a process for locating, designing, constructing, operating, and evaluating a set or sets of Green Infrastructure control measures to capture a minimum of 44 MG of wet weather flows in a typical year that would otherwise be discharged by NEORSD’s CSOs.”

Performance

USEPA - Working with numerous cities:

- Cincinnati
- Louisville
- Cleveland
- Edison, NJ
- Kansas City, MO

Performance

USEPA performing monitoring to determine the performance and effectiveness of green infrastructure on stormwater and CSO control.

Performance means specific BMPs, practice by practice monitoring (quantity and quality)

Effectiveness means how do you place these controls in a watershed to have an overall impact.

Approaches

GREY | GREEN
INFRASTRUCTURE

KEY ISSUES

Approaches

- Philadelphia
GI & WWTP upgrades = 80% capture
- Louisville
Use GI to “right size” gray
- Cincinnati
Exploring the right mix - 2012
- Sanitation District No. 1
Leading with green

Discussion