Better Practices
The Artful Rainwater Design Approach To Green Infrastructure

Warren Byrd • FASLA • Nelson Byrd Woltz
Steven Benz • Hon. ASLA • OLIN
Steven Koch • ASLA • Koch Landscape Architecture
Kevin Perry • ASLA • Urban Rain|Design
Eliza Pennypacker • ASLA • Penn State

ASLA 2013 Annual Meeting and EXPO

Learning Objectives

1. Learn why artful rainwater design is a successful approach to intelligent site design.
2. Get some pointers on how to overcome client/municipal skepticism.
3. Understand the major challenges and opportunities to this approach to green infrastructure.
4. Explore why monitoring a project designed from this perspective is critical to success.

2011 DRAFT Summary of State Stormwater Standards • USEPA
Opportunities and Challenges in the "Artful Rainwater Design" Approach to Green Infrastructure

UNIVERSITY OF VIRGINIA STORMWATER PROJECTS
Meadow Creek, Upper Watershed

1 ACRE
“The bioswale in front of the office is truly living up to its name. Within the first year of existence, I have documented 7 species of frogs (Green frog, Bullfrog, American Toad, Green Treefrog, splashed Chorus Frog, Southern Cricket Frog and Southern Leopard Frog), 1 hatching snapping turtle and 1 species of salamander (spotted). I took the attached photo last Friday night during the monsoon-like rains. Although some of these species are only transients, some are breeding on-site. It’s a good example of how these types of structures can work effectively as stormwater control and habitat.”

John (J.D.) Kleopfer
Wildlife Diversity Biologist/Herpetologist
March 11, 2008
Virginia Department of Game & Inland Fisheries
Back to Basics

Re-Define what is Stormwater Management
Create more landscape in the right-of-way
Design shallow and decentralized stormwater facilities
Micromanage: create more pervious surface
Landscape
near Minneapolis, Minnesota

Urbanization
Minneapolis, Minnesota

Create More Landscape in the Public R. O. W.
Chicago
The Shallow, Decentralized Approach
A focus on the landscape system

Accidental Pervious Surface
A crack in the asphalt accepts roof stormwater runoff

Accidental Pervious Surface
A 100-year old street. Is this street failing?

Formalized Pervious Surface
A bold example from Barcelona, Spain