





Regional Support for Green Infrastructure

Briefing for COG Board Wednesday, April 9, 2014

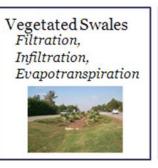


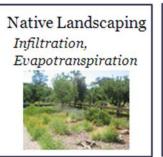
What is Green Infrastructure (GI)?

What is it?

- Also known as Low Impact Development (LID)
- Uses plants, trees & other measures to mimic natural processes to control stormwater, & promote rainwater detention/infiltration into the soil
- Includes techniques such as rain gardens, porous pavements, green roofs & other technologies





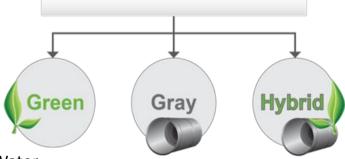








- Why do we need to consider Green Infrastructure?
 - Achieving water quality objectives benefits everyone but takes time & is often expensive
 - Need to consider a range of options to cost-effectively
 & sustainably address water quality Issues
 - Green Infrastructure alone, or in combination with other more traditional (gray) infrastructure needs to be an option to achieve our objectives



- What is DC Water Doing?
 - Invested \$10 million for various Green Infrastructure projects:
 - Planted more than 5500 trees via UFA, and rain garden at Irving & North Capital St.
 - Green Roofs at Ft. Reno & Eastside Pumping Station, and bioretention at Anacostia PS
 - Funded Riversmart Washington Demonstration Project
 - GI Challenge
 - Now \$100 million proposal to modify Clean Rivers
 Project
 - Will incorporate green infrastructure as innovative new element of the plan to address combined sewer overflows to the Potomac River & Rock Creek

- Why is GI Important to the Region?
 - COG's Region Forward program encourages use of GI to achieve our Sustainability goals
 - GI projects have potential to provide a wide range of benefits:
 - Environmental
 - Reduce stormwater runoff/result in better water quality;
 - Use trees & other plants to improve air quality, expand wildlife habitat, reduce summer temperatures, reduce energy usage, and help to offset climate change
 - Social Improved livability and enhanced green spaces
 - Economic Sustainable/local green jobs

- Why is DC Water's GI Proposal Important to the Region?
 - DC Water's GI proposal would provide:
 - Unique opportunity to implement/demonstrate/assess largescale green infrastructure projects in COG region
 - Meaningful and important information to local, regional and national efforts to effectively implement such projects
 - DC Water's Clean Rivers Project & new GI element have the potential to:
 - Benefit not only the waterways of the District of Columbia and the Potomac River, and
 - Provide broader regional environmental benefits

Recommendation

- Given:
 - COG's support for the use of innovative technologies to achieve environment objectives in the region; and
 - COG's Region Forward Sustainability goal
- COG's Chesapeake Bay and Water Resources
 Policy Committee has considered this proposal
 and are recommending that the COG Board of
 Directors endorse it