Sewerage & Water Board of New Orleans



Green Infrastructure Plan & Projects

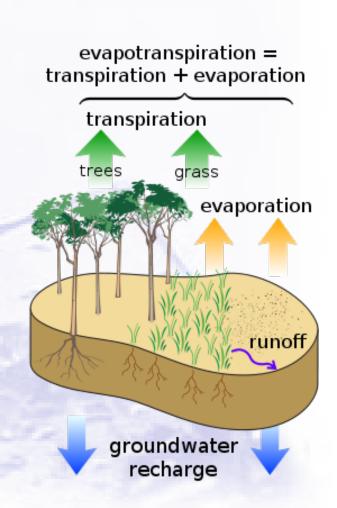
June 18, 2014

Green Infrastructure Plan

- Per Modified Consent Decree and the LPDES Municipal Separate Sewer Storm Sewer Systems (MS4)
 - Explore and include green infrastructure projects for all of New Orleans
 - Dedicate \$500,000 per year, averaged over the next five years
- Submit Green Infrastructure Plan by April 23, 2014

Green Infrastructure - Definition

- Use of natural process to infiltrate, evapotranspiration or reuse storm water or runoff where its generated
- Multiple benefits
 - Reduction of storm water discharges
 - Mitigation of flooding
 - Rainwater harvesting
 - Reduced capital costs for storm water management



Rain Barrels to Disconnected Downspout



Rain Gardens to Tree Canopy



Permeable Paving





Bioswales



Green Roofs/Vegetated Walls



Green Infrastructure Plan

- The Plan describes
 - the policies guiding development of the Plan
 - Modified Consent Decrees, MS4 Permit, Greater New Orleans Urban Water Plan (Sept. 2013), CNO Master Plan for the 21st Century: New Orleans 2030 (adopted Aug. 2010) and CNO Comprehensive Zoning Ordinance (draft)
 - description of the principal goals and objectives for green infrastructure
 - understanding of the approach toward achieving the goals
 - establishment of performance measurements.



- Identifying and selecting projects that embody the principles of living with water
 - Social: community assets,
 - Economic: cost effective
 - Environmental: mitigate repetitive urban flooding
- Implementing projects that comply with GI design criteria
 - Storm water BMP Guidance Tool for Orleans &
 Jefferson Parishes (Bayou Land Resource Oct. 2010)
 - Greening CSO Plans (EPA Mar. 2014)
 - NORA Green

- Developing Partnerships to implement a regional approach to GI
 - Cooperative Endeavor Agreements
 - CNO DPW
 - CNO Parks and Parkway
 - LPDES MS4 co-permittees
 - Carrollton–Hollygrove Community Development Corp.
 - Lake Pontchartrain Basin Foundation
 - EPA Office of Research and Development















- Developing community outreach programs to provide education on GI practices and include the community in the decision making to ensure sustainable projects
 - Targeting education of school age children
 - Targeting resident through workshops
 - Targeting commercial businesses/professionals
 - Developing brochures, utilize websites, social media

Conrad Park

- WEFTEC Community Service Project - YP
- Utilize Green Infrastructure
 - Reduce localized flooding
 - Improve park access
- LDEQ Beneficial **Environmental Project (BEP)**
- Project Budget \$11,600
 - \$5,000 WEF
 - \$5,000 plus \$2,500 in-kind donation from SWBNO







S.T.E.M. Extravaganza

- Saturday June 21 at Dillard University
- Staff from Environmental Affairs, Engineering, Water Purification Laboratory and GSO
 - Storm Water Presentation
 - Water Treatment/Taste Testing
 - Enviroscape
 - Rain Barrel Painting
 - TREE Storm Water Game
 - Panel



- Inclusion of performance measurement, include monitoring of water quality, to help evaluate the siting and selection of future proposed GI projects.
 - GIS mapping
 - Monitoring and analysis of water quality
 - Tracking of community workshops/presentations

Green Infrastructure-RFP

- RFP issued January 31, 2014
 - ATTN: Environmental Professionals, Non-Profit or Community Organizations
- Type of Green Infrastructure Projects
 - 1.Demonstration project on public lands
 - 2. Educational curriculum for local schools
 - 3. Workshops for educating professionals, commercial businesses, homeowners, neighborhoods



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Re-Building the City's Water Systems for the 21st Century