



Alachua County Stormwater Quality Workshop January 27, 2016

Environmental Protection Department
Gus Olmos



Background

- In July, 2015, the Board of County Commissioners (BoCC) directed staff to update County requirements to improve stormwater quality.
- At their October 4, 2015 retreat, the BoCC requested that staff proceed to develop a stormwater manual that incorporates design and operating standards to achieve “Advanced Stormwater Treatment” for stormwater systems serving new development and redevelopment projects.



Alachua County Priority Water Goal

Increase the recharge of clean water into local aquifers, springs, and surface waters.



Why is this Stormwater Initiative Needed?

- Existing stormwater practices and standards do not meet pollution reduction goals
- Polluted (Impaired) Local Watersheds (Orange Creek Basin, Santa Fe River and Springs, Gainesville Area Creeks)
- Improved integration of stormwater quality and quantity management

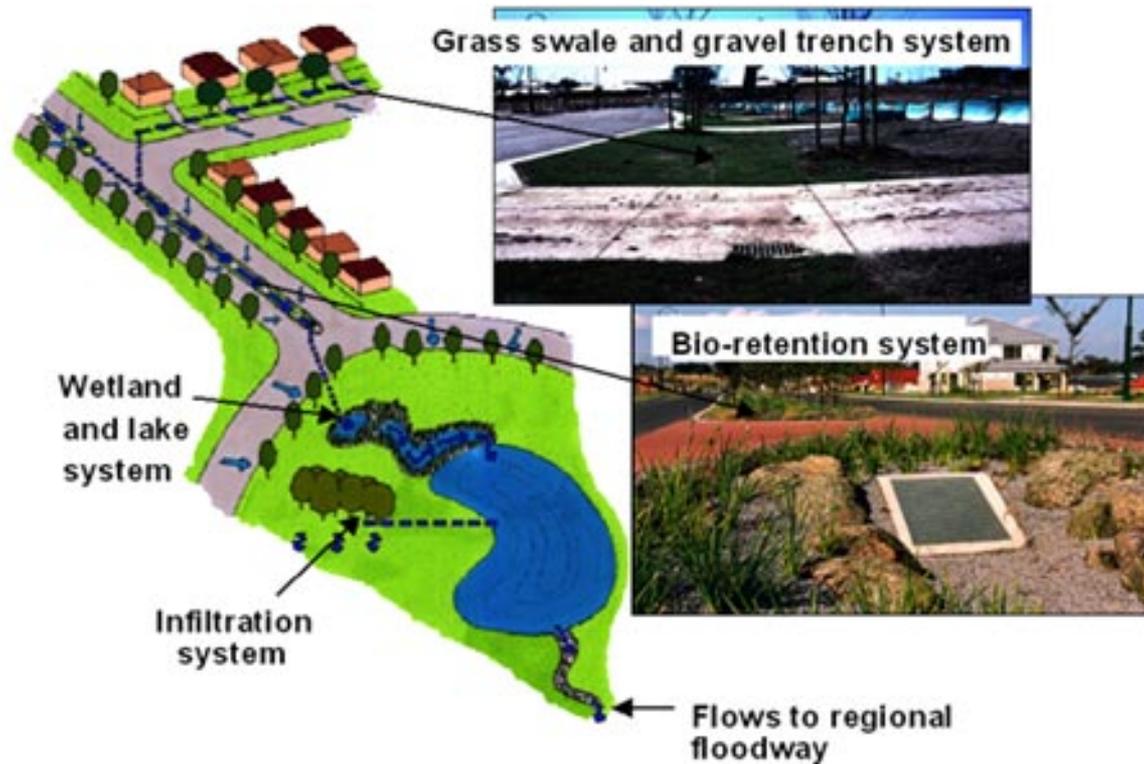


County's Proposed Approach to Improving Stormwater Quality

- Using a Stormwater “Treatment Train” approach, adopting an Alachua County Stormwater Design and Operating Manual that catalogs various stormwater Best Management Practices (BMPs) that can be applied to achieve advanced stormwater treatment on future redevelopment and development.
- Review and update of existing County Codes (Hazardous Materials, Landscape Fertilizer and Irrigation, Water Quality)



Stormwater Treatment Train





Updates to Existing Pollution Prevention Codes



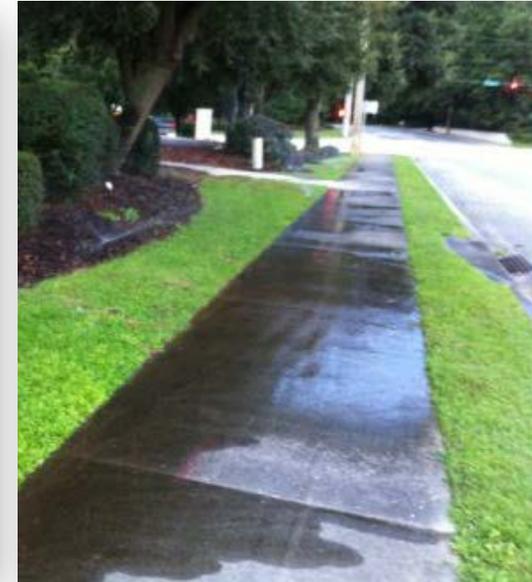
Hazardous Materials Management



Water Quality



Landscape Fertilizer



Landscape Irrigation



County's Technical Team

- County Environmental Protection and Public Works staff
- Eric Livingston, Watershed Management Services, Inc.
- Dr. Marty Waneilista, P.E., Stormwater Academy-University of Central Florida
- Dr. Mark Clark, University of Florida

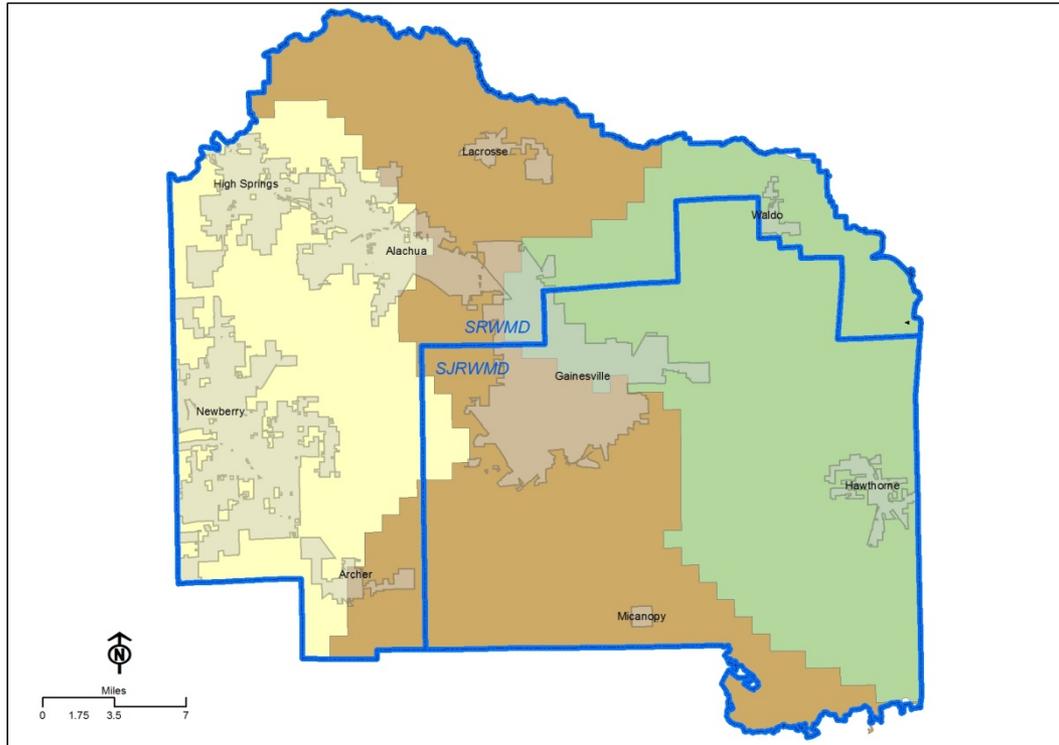


Stakeholders

- Municipalities
- Land Development Engineers & Environmental Consultants
- FDEP & Water Management Districts
- Homebuilders Association
- Chamber of Commerce
- Environmental Groups
 - Sierra Club
 - Florida Springs Institute
 - Santa Fe River Springs Forum
- County Advisory Committees: Environmental Protection and Economic Development



Issues



Aquifer Vulnerability Assessment

High Vulnerability	Vulnerable	Lower Vulnerability
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- Water Management District requirements
- Site specific design requirements



Issues

- Treatment Requirements
 - Presumed versus Actual pollutant load reduction (Presumed 80% average annual load reduction of pollutants and 95% reduction for direct discharges to Outstanding Florida Waters)
 - Requirements for discharges to ground water
 - Total Maximum Daily Loads (TMDLs)
 - WICK Basins
 - Biosorption Activated Media (BAM)



Proposed Schedule

- Staff planning meetings – October-December, 2015
- Kick-off Meeting – January 27, 2016
- Development of Stormwater Manual – through May, 2016
- BoCC Public Hearings and Adoption– June 2016



Questions?