

CLEAN WATER ACT'S STORMWATER PROGRAM



Suzanna M. Perea, EPA Region 6 May 14, 2013 Stormwater is a leading cause of water quality impairment and its impact is growing

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- Urban stormwater is a leading source of impairment
- Fast growing water quality concern
 - Approx. 800,000 acres being developed every year (> 1.0 million acres by 2039)
- Development increases the amount of impervious cover in the landscape
- Small increase in impervious cover leads to big impacts in receiving waters
- Development upstream can cause downstream impacts in communities
- Local governments face growing wet weatherrelated costs





Stormwater Impacts: Pollution, Flooding, and Property Losses

Stormwater pollutants

- Cause beach closures & swimming illnesses (bacterial contamination & algal blooms)
- Impact fisheries & shellfish harvesting (excess sedimentation, nutrients, bacteria, metals, & temperature)
- Increase the costs of treating drinking water supplies

Stream impacts

- Increase stormwater volume & velocity (flooding, scouring & sewer overflows)
- Reduce groundwater recharge (water supplies)



Existing Program



Current coverage

- •Primarily in urbanized area
- Accounts for much of the population
- Only about 2% of the land area

- Many communities already have waterbodies polluted by stormwater discharges from impervious areas
- Communities are working hard to address stormwater and are looking for costeffective solutions moving forward
- Communities are prioritizing investments through integrated planning

New Directions

Incorporate green infrastructure into initial development/redevelopment site plans

- Most cost-effective opportunity to control stormwater at its source
- Prevents WQ degradation in healthy waters
- Helps restore impaired waters
- Looking at the problem on a watershed basis will be more cost effective
- Incentives for sustainable practices that provide numerous other economic and quality of life benefits to communities

Green infrastructure is a sustainable way to control stormwater.



If We Don't Take This New Direction – It Will Cost a Lot More





- If sites do not incorporate sustainable stormwater controls:
 - In growing communities, waterbodies will become impaired (high costs to restore the waters)
 - In areas already discharging to impaired waters, WQ of our urban waters will worsen
- Communities will not realize the many other benefits of green infrastructure, including:
 - Reduced flooding
 - More liveable communities
 - Increased property values
- The cost of inaction is high and borne most by local governments



Potential Focus of a Proposed Stormwater Rule

- Establish performance standards for discharges from newly developed and redeveloped sites
- Encourages watershed approaches for managing municipal stormwater discharges



Fits with integrated planning and financial capability frameworks





Performance Standards

- Retention-based performance standard to require that sustainable stormwater controls be incorporated into sites as they are developed and redeveloped
- Considering a standard that varies according to an area's climate and other locationspecific characteristics
- Considering many flexibilities
- Cost-effective ways to meet the standard



About 1/3 of states and many local communities already have some sort of treatment or retentionbased performance standard



Performance Standards (Cont'd)

- Considering relaxed standard for redevelopment
 - Recognizes site constraints and benefits to reusing already developed site
 - Encourages redevelopment to revitalize urban communities
 - Provides additional incentives for smart growth and brownfields development
- The standard could be directly applied to newly developed and redeveloped sites nationwide or only those sites discharging to regulated MS4s



Applying the standard nationwide would create a level playing field for developers among municipalities and protect downstream communities from upstream development.



Performance Standards (Cont'd)

- Could accommodate site constraints (including water rights laws)
 - Managed through treatment
 - Off-site mitigation
 - Payment-in-lieu
 - Banking or trading programs
- Allow watershed plans that control pollutants/flows
- Would credit alternative programs that are better suited to their needs, but that are as protective as the national standard
- Allow phased implementation
- Allow sites to do their own analyses based on sitespecific information
- Allow alternative green infrastructure plan in-lieu-of a new and/or redevelopment standard



Benefits of a Proposed Stormwater Rule

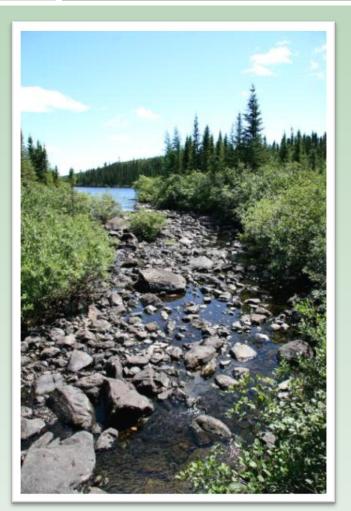
	Water-Based Benefits		Vegetation-Based Benefits
	Improved recreational, aesthetic and non-use values		Improved air quality and reduced human health impacts
	Lower drinking water treatment costs	Contraction of the second seco	Higher off-site property values associated with green infrastructure
	Lower dredging costs for navigational channels		Carbon uptake by plants
	Reduced siltation of water storage reservoirs		Reduced energy use by buildings and associated air quality and carbon footprint benefits
DANGER END OF STORM DECIN	Reduced downstream flooding damage		
	Groundwater recharge		Innovative communities across the U.S. already have on-site retention standards
			in place and are seeing the

benefits.



Small stream erosion and water quality impacts

Rulemaking Schedule



Proposal: June 2013 Final Action: December 2014



www.epa.gov/npdes/stormwater/rulemaking

A New Federal Approach

PARTNERSHIP FOR SUSTAINABLE COMMUNITIES

- Goal is to coordinate
 Federal investments and align policies to support
 communities
- Meet multiple economic, environmental, and social objectives with each dollar spent



Houston Minute Maid Park

The Partnership's Mission

To help American families in all communities — rural, suburban and urban — gain better access to affordable housing, more transportation options, and lower transportation costs.



The Partnership's Guiding Livability Principles

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- Provide more transportation choices
- Promote equitable, affordable housing
- Increase economic competitiveness
- Support existing communities
- Leverage federal investment
- Value communities and neighborhoods

Region 6 Pilot Projects





Port Arthur: Westside



Transit Oriented Development Health Services

Capital Metro & City of Austin

- Ridership Generated
- Revenue from Ridership Supports Capital Outlay & Future Maintenance
- Affordable housing, Green Building, Improved Streetscapes, Public
 Open Space, etc)

East Austin Community Needs

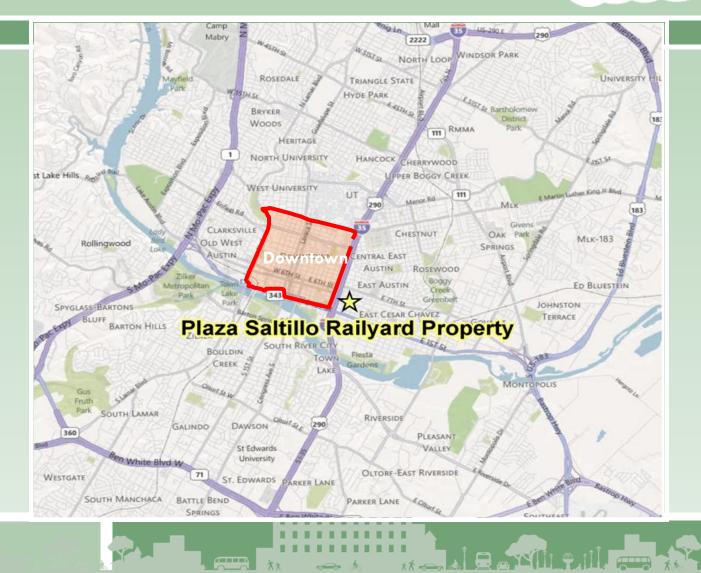
- Affordable Housing Options
- Green Buildings
- Improved Streetscapes
- Public Open Space
- Economic and Employment Opportunities

Federal Assistance

- ✓ EPA Brownfields Site Assessments (Joint TCEQ & EPA)
- ✓ DOT \$5.3M Surface Transportation Program Metropolitan Mobility Funds and \$5.0M Livability Funding
- ✓ HUD \$3.7M Regional Plan for Sustainable Development

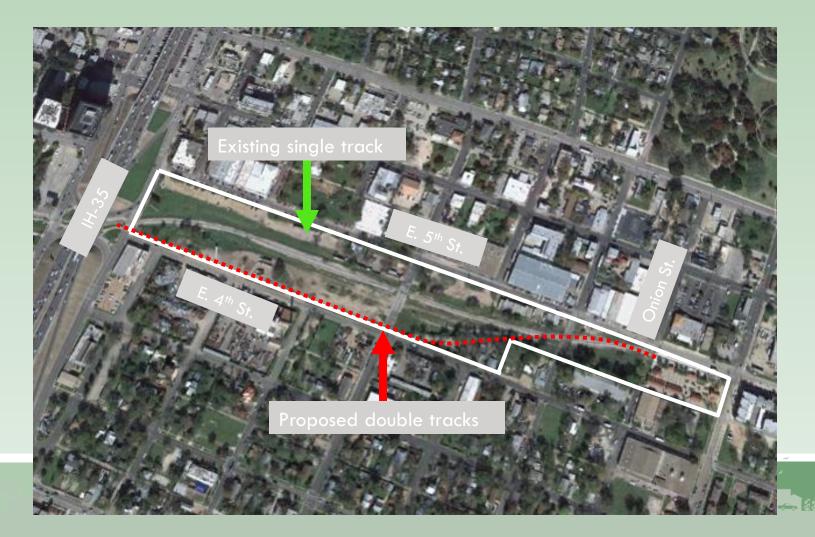








Track relocation to southern edge of site



SUMMARY

ENVIRONMENTAL:

- Phase I Environmental Site Assessment, Dec. 2011 (TCEQ)
- Phase II Environmental Site Assessment, May 2012 (TCEQ/EPA)
- EPA Brownfields Cleanup Grants Annual Competition

HOUSING:

 Capital Metro Preparing Request for Proposals to Build Affordable Housing

SUMMARY cont'd

TRANSPORTATION:

- Relocation of Southern Track, Oct. 2012
- MetroBikes Kramer Station, Aug. 2012; Plaza Saltillo, 2013
- Capital Metro and City Infrastructure Coordination
 - 1) Track Relocation
 - 2) Addition of 2nd Track
- Capital Metro
 - 1) Complete double-track segments of MetroRail
 - 2) Lance Armstrong Bikeway into Plaza Saltillo area
 - 3) East Austin/Downtown Gateway

EPA GRANT OPPORTUNITIES

Smart Growth Implementation Assistance (SGIA) Grants http://www.epa.gov/smartgrowth/sgia.htm

Building Blocks Technical Assistance Grants http://www.epa.gov/smartgrowth/buildingblocks.htm

Greening America's Capitals http://www.epa.gov/smartgrowth/greencapitals.htm

Governor's Institute for Community Design http://www.epa.gov/smartgrowth/grants/index.htm

OTHER EPA GRANT OPPORTUNITIES

Brownfields Grants and Funding http://www.epa.gov/brownfields/grant_info/index.htm

Community Action for a Renewed Environment (CARE) http://www.epa.gov/care/

Energy Conservation and Renewable and Clean Energy http://www.epa.gov/otaq/rfp.htm

Water Grants http://water.epa.gov/grants_funding/

Environmental Justice Grants

http://www.epa.gov/Compliance/environmentaljustice/grants/index.html

Contact Information



More information on the Partnership for Sustainable Communities: <u>http://www.epa.gov/smartgrowth/partnership</u> <u>/index.html</u>

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