



Department of the Environment

Fostering Green Infrastructure through Public-Private Partnerships

A State Perspective

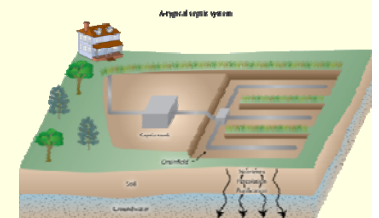
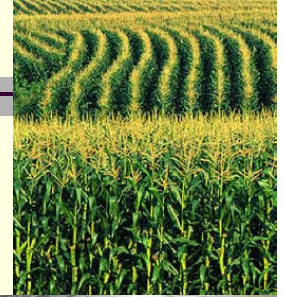


September 26, 2013

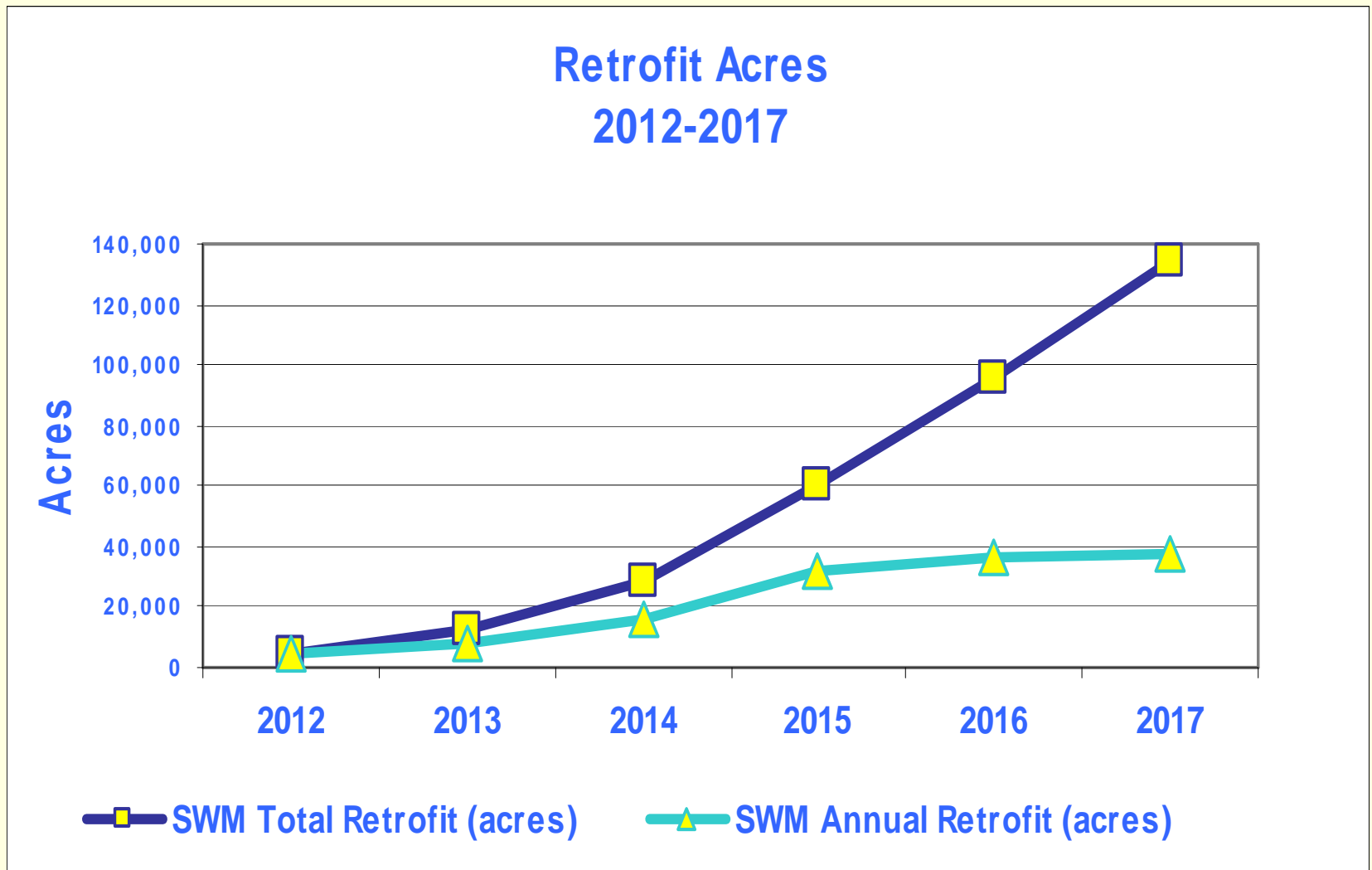


What is ahead of us?

- From 2012, we need to reduce approximately 9 million pounds of nitrogen and 0.37 million pounds of phosphorus
- We need to maintain equity and strive for more cost effective solutions in reaching our water quality and habitat goals
- We must also plan for beyond 2025 and find solutions to maintain the cap, given increase in population and a changing landscape



The Stormwater Challenge



Smart, Green and Growing

The screenshot shows a Windows Internet Explorer browser window displaying the Maryland Smart, Green & Growing website. The browser's address bar shows the URL <http://www.green.maryland.gov/>. The website features a green-themed header with the Maryland logo and the text "Smart, Green & Growing". A navigation menu includes links for "SG&G", "GREENPRINT", "AGPRINT", "GROWTHPRINT", "TREES", "OYSTERS", "STREAMS", and "BAYSTAT".

The main content area is titled "Welcome to Smart, Green & Growing" and includes a photograph of two men shaking hands in an industrial setting. The text below the photo reads: "Welcome to Smart, Green & Growing (SGG), where Marylanders are coming together to strengthen our economy, protect our environment, and improve our quality of life. From adopting smart growth policies and growing green jobs, to improving transit and revitalizing our communities, SGG is helping us make informed choices, both about the kind of future we envision for our State and the kind of progress that will help us realize that vision. Today our interactive GreenPrint and AgPrint maps are helping guide protection of our most important landscapes. BayStat is allowing citizens to track our Bay restoration progress. Businesses are sharing green business practices, and coastal communities are addressing climate change and its impacts. Citizens are conserving energy, growing out young oysters and planting new trees, and young Marylanders are learning about and connecting with their natural world."

The website also features a sidebar with various sections: "Restoring the Bay", "Preserving Land", "Revitalizing Communities", "Green Jobs", "Improving Transit", "Conserving Energy", "Climate Change", "Leading By Example", and "SGG PARTNERS". The "SGG PARTNERS" section lists "Participating Agencies", "Organizations", and "Colleges and Universities".

Additional features include a "Genuine Progress Indicator", "Maryland Green Registry", "MD's Interactive Tour Map", "Useful Documents" (such as "Green Best Practices Guide", "Sustainable Maryland Report", "SGG Planning Guide", and "Going Green Downtown Guide"), and "Latest News" (including "Port Administration Wins Green Award From EPA Port Administration 4.13.11" and "Maryland First State to Approve International Green Construction Code - CityBiz 4.10.11").

The browser's taskbar at the bottom shows the Start button, several open applications (Novell GroupWise, Internet Explorer, Windows Explorer, Microsoft Office), and the system clock indicating 9:50 AM.

The New Maryland Economy

Green Jobs

- Potential for 144,000 to 326,000 jobs from clean tech industries
- Up to \$5.7 Billion in wages and salaries
- \$973 Million boost in State and local tax revenues
- Maryland well-positioned to attract clean tech businesses
- States investing now are reaping benefits of \$50B annual worldwide clean tech industry
 - Source: "Economic Development Potential of Clean Energy Technology in Maryland", International Center for Sustainable Development, Inc., Dec. 2006



Green Infrastructure The New Paradigm



Small Scale Practices



New Technologies & Innovation



Permeable Pavement



Environmental Site Design

Fostering New Approaches



How Do We Make This All Work?

- Strengthening relationships with Locals.
- More Outreach, Communication, Information Sharing
- Highlighting what works, doing more of it.
- Fixing what doesn't work.
- Better standards, faster adoption
- Fostering Innovation
- Addressing resource limitations
- Breaking Old Habits
- Marketing

Supporting Local Communities

- Financing for Green Projects
- Identifying institutional Impediments
- Weighing Financial Risk and Capacity
- Leveraged Funding Approaches: It Takes A Village to Build a Green Town
- Stormwater Utilities Fees



House Bill 560 – Public Private Partnerships

“IT IS THE PUBLIC POLICY OF THE STATE TO UTILIZE PUBLIC-PRIVATE PARTNERSHIPS, IF APPROPRIATE, TO:

- DEVELOP AND STRENGTHEN THE STATE’S PUBLIC INFRASTRUCTURE ASSETS**
- APPORTION BETWEEN THE PUBLIC AND PRIVATE SECTORS THE RISKS INVOLVED WITH DEVELOPING AND STRENGTHENING PUBLIC INFRASTRUCTURE ASSETS**
- FOSTER THE CREATION OF NEW JOBS; AND**
- PROMOTE THE SOCIOECONOMIC DEVELOPMENT AND COMPETIVENESS OF MARYLAND”**

P3 at Work



Baltimore City School Greening:
Impervious area reduction
Rooftop disconnection to rain garden

P3 at Work



**Martin Plaza
Redevelopment**

**Baltimore County and
Martin Financial Assoc.**

Public – Private Partnership

**WQ treatment of 85 acres
of existing impervious**



Regulatory Framework


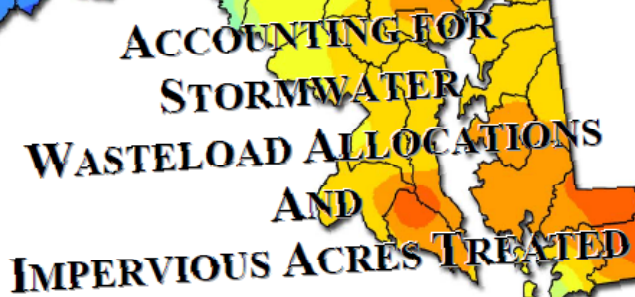
Phase I MS4 Permits:

- Draft permits submitted to EPA for review
- Phase I Tentative Determinations:
Baltimore City, Prince George's County, Baltimore County, Anne Arundel (in process)
- Revised Schedule

Phase II MS4 Permits:

- State & Federal Facilities
- Municipal

MS4 Retrofit Guidance Revision

ACCOUNTING FOR STORMWATER WASTELOAD ALLOCATIONS AND IMPERVIOUS ACRES TREATED

GUIDANCE FOR
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
STORMWATER PERMITS

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