Montgomery County's MS4 Challenges and Initiatives

Bob Hoyt, Director
Montgomery County
Department of Environmental Protection

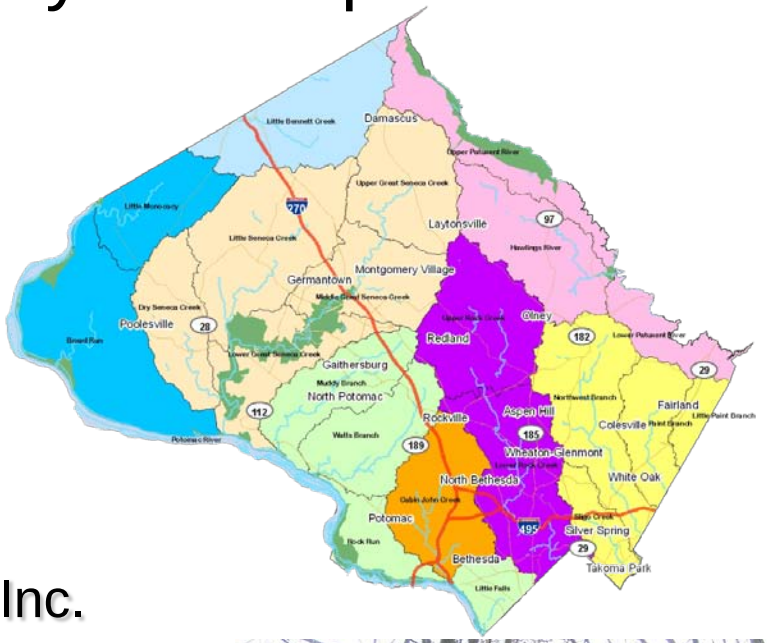
Presentation Overview

- Montgomery County's MS4 Permit Requirements
- Some Challenges and Initiatives
  - Develop detailed Strategy
  - Retrofit 4300 acres to MEP
  - Funding
  - Show Progress on TMDLs
  - Meet Trash Requirements

Montgomery County's Major MS4 Permit Requirements

- ***Implementation Strategy:*** **Develop plan within one year that meets Permit requirements (projects, funding, TMDLs)**
- ***Watershed Restoration:*** **Retrofit 20% (4300 acres) of impervious surfaces not currently controlled to the maximum extent practicable (MEP)**
- ***Water Quality:*** **Make Progress toward meeting permit wasteload allocations (nitrogen, phosphorus, sediment, bacteria, trash)**
- ***Trash Reduction:*** **Implement initiatives to meet commitments in Trash Free Potomac Treaty goals**
  - **Anacostia Trash TMDL**
- ***Public Outreach:*** **Engage public through outreach and stewardship opportunities**
- ***Report and Monitor:*** **Submit annual report on progress.**

Challenge: Develop Implementation Strategy that Meets MS4 Requirements
Initiative: Coordinated Countywide Implementation Strategy



- Based on Eight Watershed Groups
  - Individual implementation plans
- Consultant Team led by Biohabitats, Inc.
- Submitted to MDE February 16, 2011
- Incorporating public comments and comments MDE

Challenge: Retrofit 4300 Acres to MEP

Initiative:

- Approximately 3800 acres of traditional structural stormwater retrofits
  - approximately 250 projects, mostly stormwater ponds
  - Est Cost: $15,000 to $20,000 per impervious acre
- Approximately 500 acres of environmental site design (ESD)
  - approximately 500 projects including biorentention, Rainscapes, etc.
  - Est Cost: $150,000 to $200,000 per impervious acre

Challenge: Achieving TMDLs and Costs

							Permit/TMDL Targets	
Watershed	Fiscal Year	2015	2017	2020	2025	2030	2017	2020
Countywide	Impervious Treated (acres)	4,302	6,014	7,722	10,518	11,154	6,008	7,723
	ESD (% Impervious)	18%	34%	47%	60%	63%		
	Cost (Million $)	305	622	987	1,687	1,884		
	ESD (% Cost)	53%	66%	70%	80%	80%		
	Nitrogen	18%	25%	36%	46%	51%	9%	20%
	Phosphorus	17%	23%	34%	44%	46%	12%	34%
	Sediment	23%	34%	54%	60%	62%	20%	37%
	Bacteria	11%	15%	20%	28%	30%		
	Trash	18%	26%	33%	41%	42%		

Challenge: Funding
Initiative: Potential Updates to the WQPC

1. Charge all properties based on actual imperviousness (rate x sq ft of impervious)
2. Charge all commercial and nonprofit properties (abolish “Associated Non-Residential” category)
3. Provide incentives to residential, commercial and nonprofit properties to encourage installation and maintenance of stormwater controls
4. Encourage Stormwater Management through:
   - Grants (new programs)
   - CIP (new programs)
   - Rainscapes (existing)
   - Credits

Challenge: Meeting Trash Reduction Requirements

Initiatives:

- Carryout Bag Law
- Litter Campaign with Alice Ferguson Foundation.
- Outreach and Education - Cleanups
- Coordination with Other Depts incl. MCDOT and Police