



Department of the Environment

Trading Nutrient Credits With Phase I MS4 Permittees

Sediment, Stormwater, and Dam Safety Program

Water Management Administration

January 21, 2016





Department of the Environment

Municipal Separate Storm Sewer System (MS4)

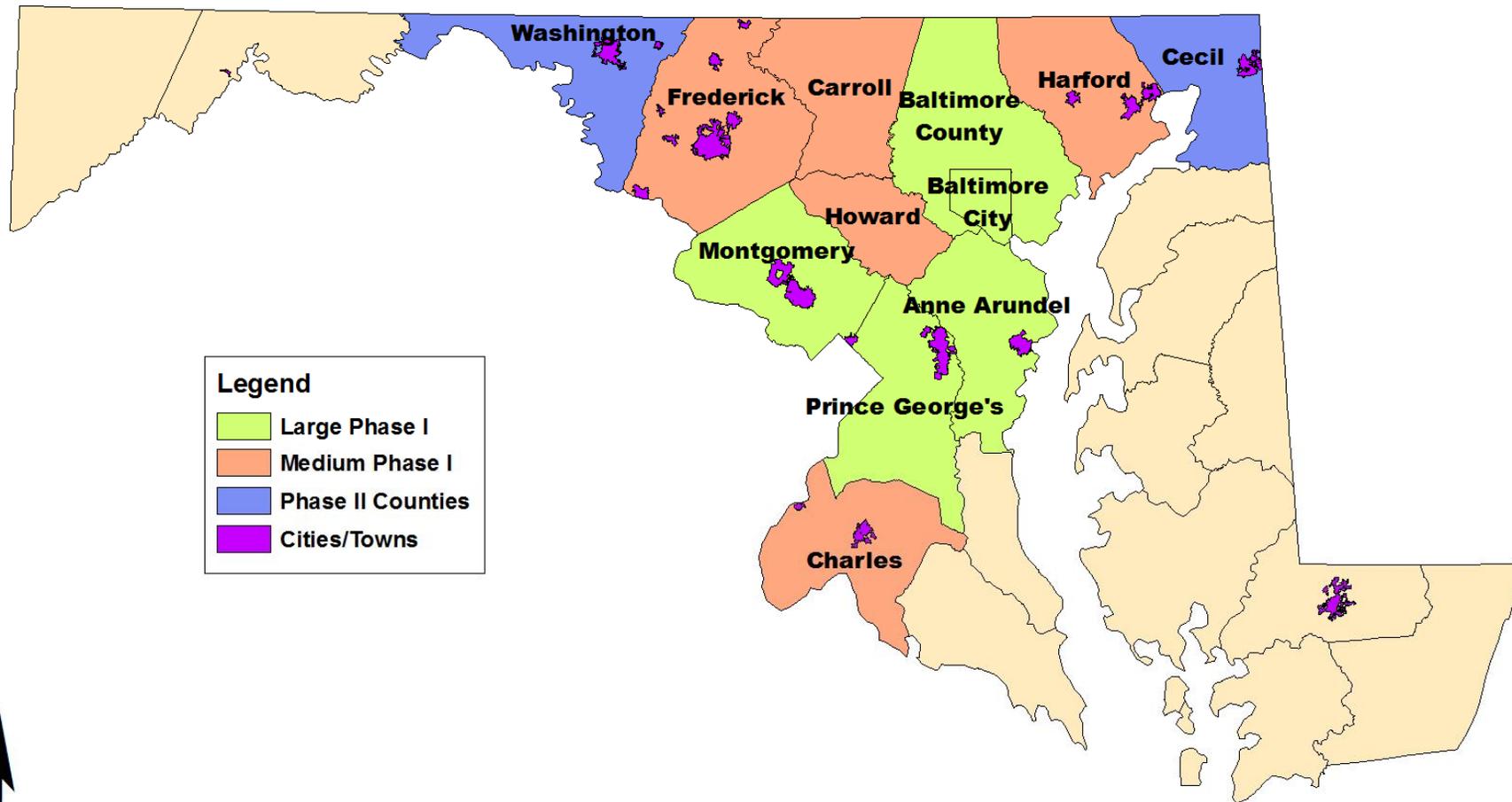
Phase I

“Large” 500,000 and “Medium” 100,000

Phase II “Small” all others

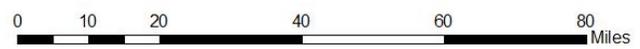


NPDES MS4 Phase I & II Jurisdictions



Legend

- Large Phase I
- Medium Phase I
- Phase II Counties
- Cities/Towns



Map date 15 January 2016



Larry Hogan, Governor
Boyd Rutherford, Lt. Governor
Ben Grumbles, Secretary





NPDES Permit Requirements

- ✓ **Storm drain mapping**
- ✓ **Stormwater management**
- ✓ **Erosion and sediment control**
- ✓ **Illicit discharge detection and elimination (IDDE)**
- ✓ **Property management and maintenance**
- ✓ **Public education and outreach**
- ✓ **Chemical, biological, and physical monitoring**
- ✓ **Restoration plans and total maximum daily loads (TMDLs)**





MS4 Restoration Requirements

- “ Restoration to treat impervious surface area with little or no current stormwater management
- “ 20% restoration requirement within current 5-year permit term
- “ Restoration plans required for impaired water with TMDL
- “ MDE Accounting Guidance includes traditional and alternative practices to equate impervious area to load reductions

**Accounting for
Stormwater
Wasteload Allocations
and
Impervious Acres Treated**

**Guidance for
National Pollutant Discharge Elimination
System Stormwater Permits**

August 2014



Department of the Environment

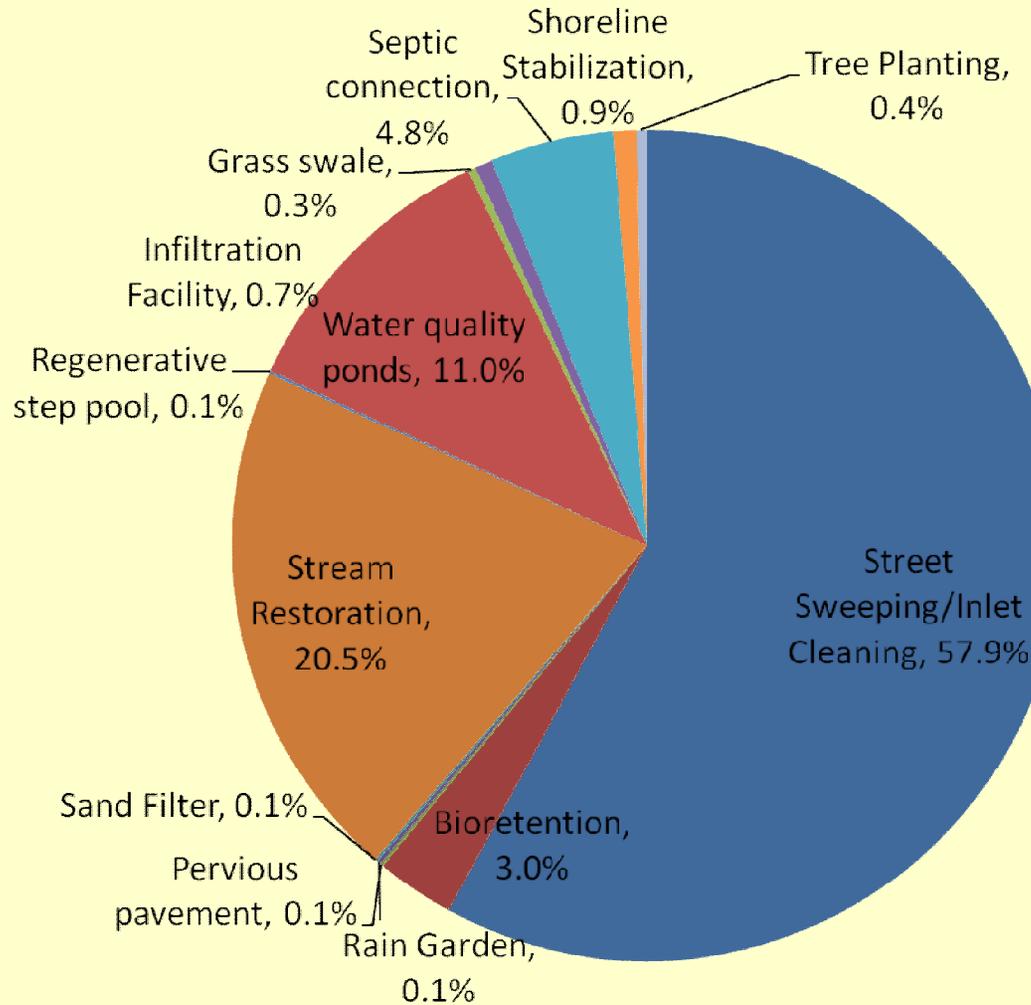
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Lawrence J. Hogan, Jr., Governor | Boyd K. Rutherford, Lt. Governor | Ben Crumblles, Secretary





MS4 Restoration Progress

Acres of Completed MS4 Restoration in the State (through FY2014)



8,800
Total Acres





MS4 Trading Goals

Accelerate Cost Effective
Chesapeake Bay restoration

Provide options and greater
flexibility for MS4 community to meet
permit obligations and achieve Bay
nutrient and sediment reduction
targets





Key Principles & Eligibility

- “ Up to half of 20% impervious area treatment may be achieved through trading
- “ Credits may be bought and sold among MS4s, other NPDES point source permittees, and agriculture sector
- “ MS4 eligible to buy credits if in permit compliance and sell credits if 20% is met
- “ Trades may not contribute to local water quality impairments
- “ Trades will be prioritized through a tiered system
- “ MS4 verification through MDA certification and documentation submitted through annual reports





Questions to Address?

- “ How existing permits should reflect trading allowances
- “ How trading will be incorporated into restoration plans and Accounting Guidance
- “ Integrating public comments into both





Questions?

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Water Management Administration

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