

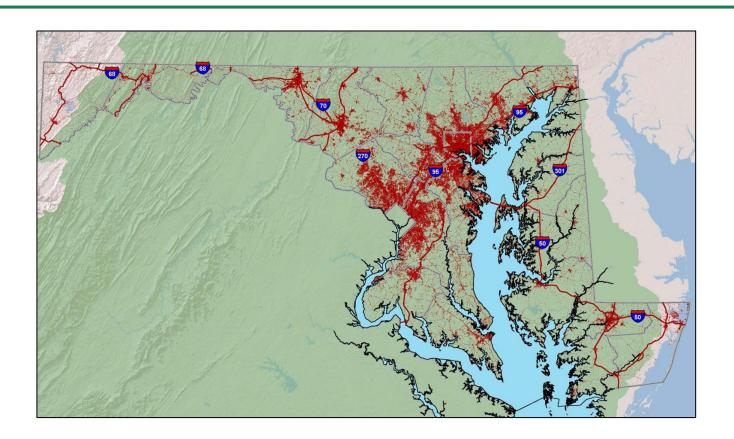
Tracking Restoration Progress in Maryland

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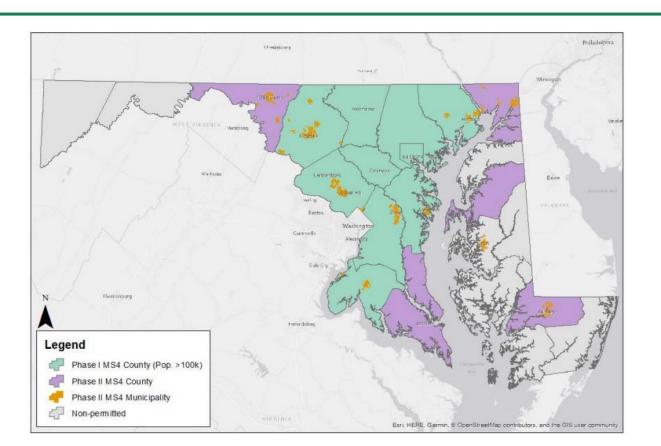


Maryland's Paved Areas





Maryland MS4 Permitted Jurisdictions





MS4 Restoration Plan Requirements

- 1. Date that TMDL is expected to be met
- 2. Detailed accounting of cost estimates
- 3. Detailed list of practices to be implemented
- 4. Specific adaptive management process
- 5. Public engagement





MS4 Permit vs TMDL Goals

- Assimilative capacity of a waterbody restored
- Water quality criteria have been met
- Waterbody/pollutant impairment combination removed from the 303(d) list





Implementation Guidance Documents

- General + pollutant-specific
- Required + recommended element checklists
- Adaptive and iterative watershed management

TMDL Stormwater Implementation Resources

This webpage provides a set of technical resources for Maryland jurisdiction Stormwater WLA Implementation Plans. The guidance documents on this developed by MDE's Water and Science Administration and are recommen

- General Guidance
- Nutrients and Sediment TMDL Guidance
- PCBs TMDL Guidance
- Bacteria TMDL Guidance
- Mercury TMDL Guidance
- Trash TMDL Guidance
- Glossary



Metrics

- Tracking % progress
 - Modeling
- Monitoring
 - BMP effectiveness
 - Watershed assessment

SUMMARY		
Overall plan summary for specified pollutar	t	
EOS or EOT	EOT ▼	
Baseline		
Impairment Baseline Load	16,852.29	lbs/yr
Target Reduction %	47.00	%
Target Load	8,931.71	lbs/yr
Total Reduction Required	7,920.57	lbs/yr
Permit		
Total Permit Load	16,057.31	lbs/yr
Permit % Reduction	4.72	%
Progress		
Total Progress Load	17,520.37	lbs/yr
Progress % Reduction	(3.96)	%
Implementation (Milestone 1)		
Total Load after Implementation	14,207.89	lbs/yr
Implementation % Reduction	15.69	%
Implementation (Milestone 1 + Milestone 2	2)	
Total Load after Implementation	14,207.89	lbs/yr
Implementation % Reduction	15.69	%
Implementation (Milestone 1 + Milestone	2 + Planned)	
Total Load after Implementation	3,925.64	lbs/yr
Implementation % Reduction	76.71	%



Evaluating TMDL Implementation





Other Data and Information Sources

- Other MS4 data
 - e.g., conductivity data when chloride is pollutant
- Ag and stormwater BMPs
- 319/TMDL overlap









Future Sources?

- Other data from local jurisdictions
- Community science
 - e.g., <u>Chesapeake Monitoring Cooperative</u>
 - Integrates volunteer-based monitoring data into centralized data hub
 - Classifies data quality for potential uses
 - Already used for IR, as appropriate

Thank you!!

