Anne Arundel County’s Watershed Protection & Restoration Program: MS4 Permit Update

Anne Arundel County Department of Public Works
MACo Summer Conference, August 17, 2018

www.aarivers.org
The County’s Regulatory Mandates

**MS4 Permit**

- Municipal Separate Storm Sewer System (MS4) Permit (issued by MDE).

- Issued to each county (and Baltimore City in the state) with a population over 100,000.

- 5-year cycle, current permit issued in February 2014.

- Requires treatment of 20% of the untreated impervious area in the county during the permit cycle. (5,862 acres)
TMDLs (Total Maximum Daily Loads)

- Think of it as a “recommended annual intake” of pollution required by the Clean Water Act.

- Based on models created by EPA.

- Reductions required in nitrogen, phosphorus, and sediment loads by 2025 as part of the Chesapeake Bay TMDL.
Current Status of WPRP-Funded Projects

- 475+ Culvert & Storm Drain projects completed.
- 99+ Water Quality Improvement Projects completed thus far in permit term.
- 174 additional projects underway.
- Approximately $250M authorized for clean water projects.
- Includes stormwater retrofits, outfall restoration, as well as stream and wetland restoration.
Devised Additional Ways to Engage the Private Sector

- Created a $5 million “pay for performance” project in the FY17 budget, placed an additional $5 million in FY18. Received $4 million in FY19.
- Sought “turnkey,” permanently protected (e.g., perpetually eased, transferred to County ownership) practices that the County can count towards MS4/TMDL compliance.
- Thus far have locked in the treatment of 300 impervious acres for $5.5 million.
Anne Arundel County Restoration Grant Program

• Open to non-profit partners
• Administered through CBT (www.cbtrust.org)
• Through 4 years, we have awarded approximately $3.1 million in grants to local watershed organizations and leveraged approximately $3.4 million in additional, outside dollars.
At a cost of approximately $252 million, Anne Arundel County completed the upgrade of all its wastewater treatment plants to enhanced nutrient removal in mid-2017.
A Path to Compliance

Impervious Acres Treated

Goal
Baseline adjustment
External Projects
Pay for Performance Program
WWTP Trade
Restoration Complete
Restoration Program


Values: 0, 1,000, 2,000, 3,000, 4,000, 5,000, 6,000, 7,000
Questions?

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