

Frederick County, MD Bay Restoration Fund (BRF) Septic Upgrade Program

Kristin Mielcarek

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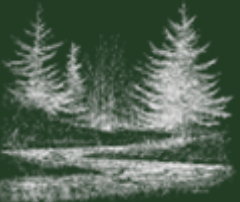


Canaan Valley Institute

WORKING FOR THE SUSTAINABILITY OF THE MID-ATLANTIC HIGHLANDS SINCE 1995

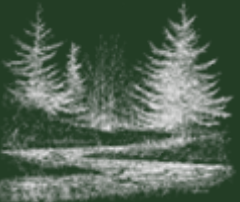
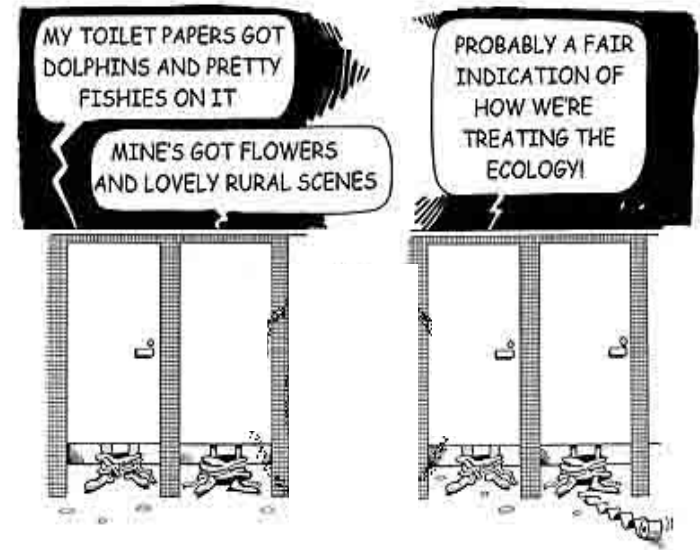
Terms

- **BRF - Bay Restoration Fund**
- **OSDS - On-site Sewage Disposal System**
- **BAT - Best Available Technology**



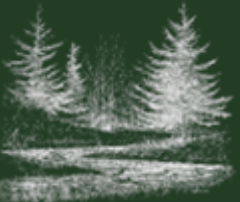
BRF Background

- **Decline in water quality in Chesapeake Bay**
 - **Wastewater Effluent**
 - **Urban Runoff**
 - **Agricultural Runoff**



BRF Background

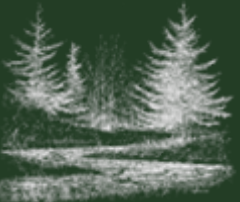
- Signed into law on May 26, 2004
- ~420,000 On-Site Sewage Disposal Systems (OSDS) in Maryland
- Goal is reduction of nitrogen load to Chesapeake Bay and its tributaries
- Current nitrogen load to Bay from OSDS in MD estimated at 7.7 million lbs/yr



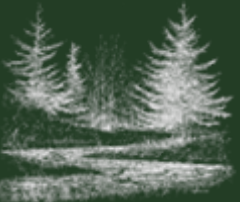
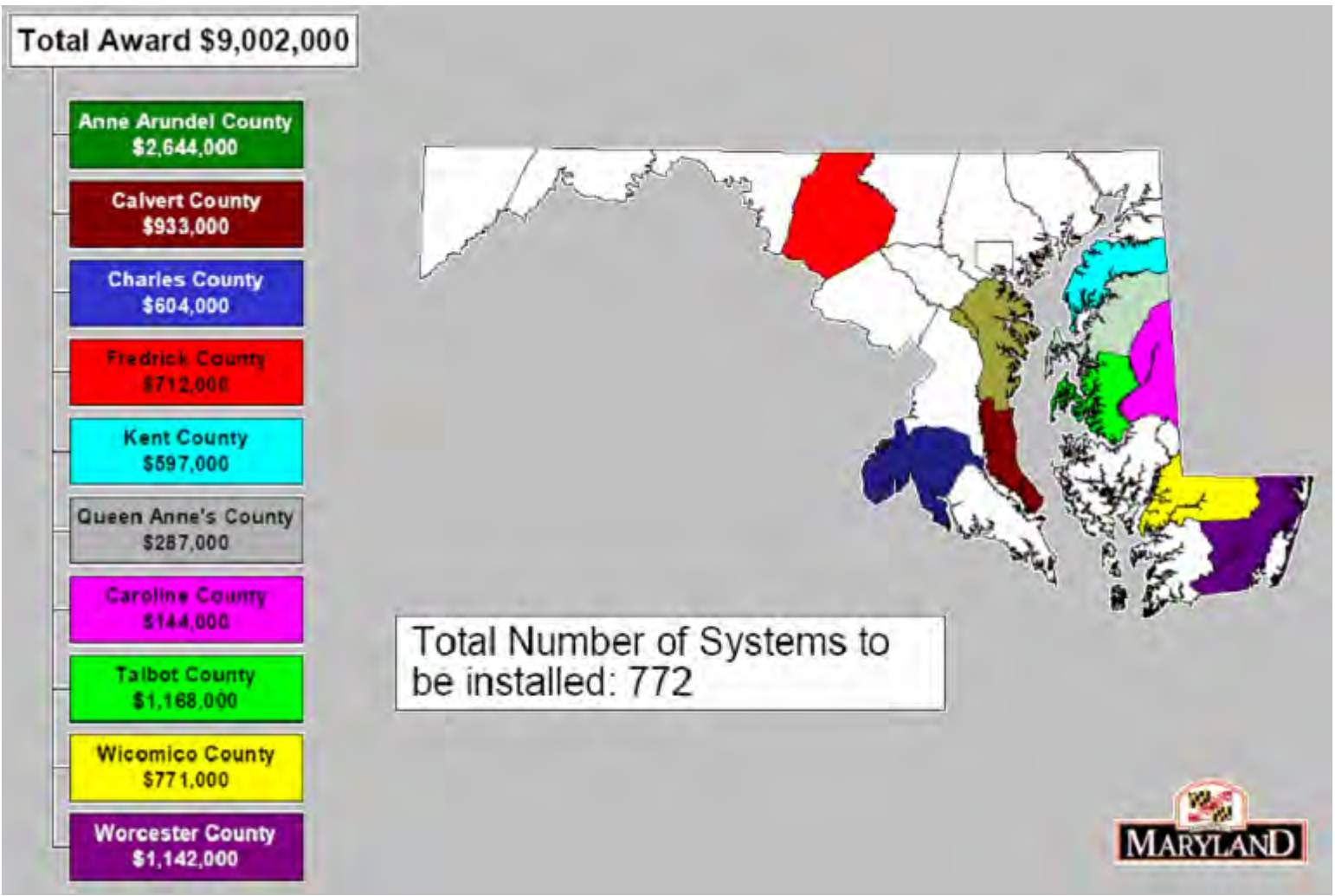
BRF Funding Mechanism

Septic Systems Fund

- **\$30/yr/EDU collected from septic users**
- **Expected to generate \$12.6 million/yr**
- **60% (~\$7.5 million/yr) dedicated to septic system upgrades – focus on critical areas**
- **40% (~\$5.1 million/yr) directed to state's cover crop program**

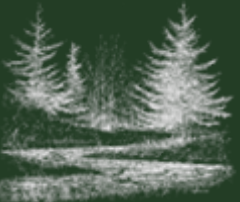


MDE Grant Awards



Frederick County BRF Award

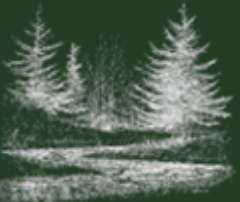
- **Beginning in July 2007 \$712,000**
- **Installation of ~65 OSDS upgrades in Frederick County**
- **2 year timeframe (ending June 2009)**
- **Nitrogen reduction in Upper and Lower Monocacy**
 - **Upper Bennett Creek, Upper Fahrney Branch subwatersheds, and the Buckeystown area**
- **Open to all of Frederick County**



Site Evaluation

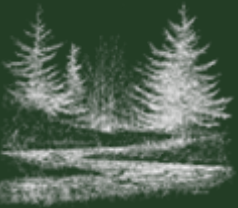
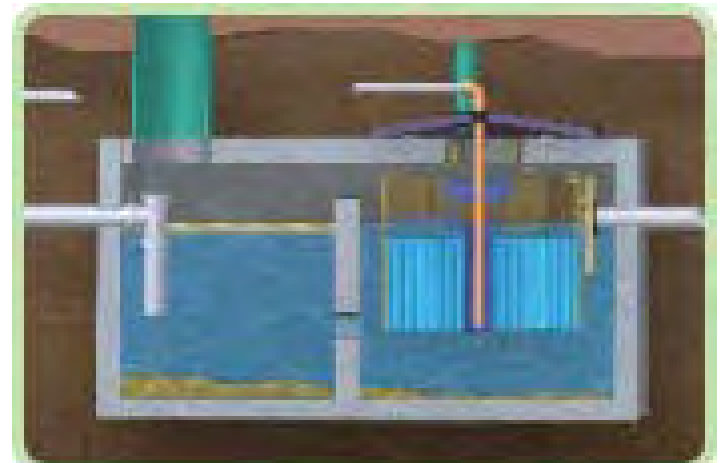
➤ **Priority to sites:**

- with failing systems
- concentrated on lots smaller than one acre
- Adjacent to surface water (lakes and rivers/streams)
- located within proposed source water protection areas
- in communities identified by the Upper and Lower Monocacy WRAS reports as probable contributors to nitrogen impairments due to OSDS issues
- with restrictive soil conditions (high water table, low depth to bedrock, underlain by karst geology)
- located in subwatersheds known to contain native Brook Trout populations.



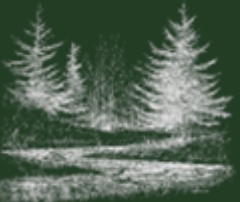
Program

- **BRF grant funds will cover:**
 - Cost of upgrade to BAT for nitrogen reduction
 - System maintenance for 5 years
 - Associated staff time (site ID, work with homeowners, permitting, etc.)



Program Details

- **Submit BRF Application to CVI**
- **Submit septic permit application to Frederick County Health Department (FCHD)**
- **CVI and FCHD will assist homeowner in determining appropriate BAT**
- **Upgrade installed**
- **System will be maintained for 5 years at no cost to homeowner**



For More Information

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