



# down to earth

Environmental Restoration Quarterly • Winter 2022

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## Little Pipe Creek Stream Cleanup

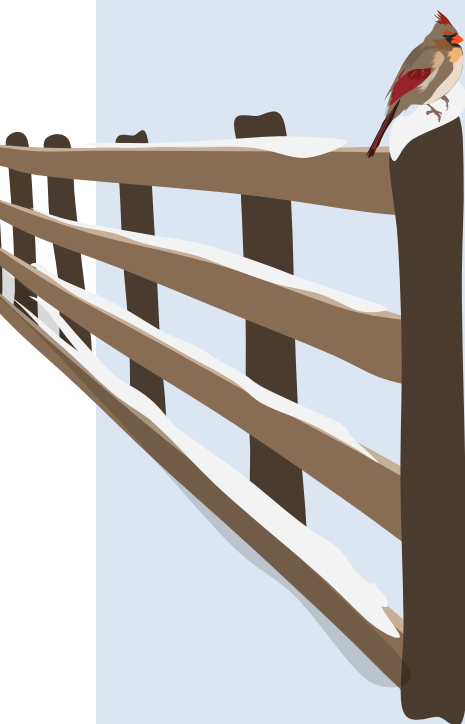
By Byron Madigan, Water Resource Supervisor

Each year the Maryland State Highway Administration (SHA) spends close to \$8 million removing litter along thousands of miles of highways throughout the State. Litter, just like other pollutants, is carried by stormwater through the storm drain systems and into our freshwater streams, eventually making its way to the Chesapeake Bay where it has the potential to entangle or be ingested by marine life.

On Saturday, November 6<sup>th</sup>, the Bureau of Resource Management through the Chesapeake Bay Alliance's Project Clean Streams organized a stream cleanup along 1,500 feet of Little Pipe Creek just outside the City of Westminster.

The Little Pipe cleanup consisted of 25 volunteers who devoted their Saturday morning beautifying their community by removing tires within the stream channel and floodplain, filling bags with small debris and hauling out large debris, including a motorcycle that was nearly buried within the stream channel.

Special thanks to Alexander Ganson within the Carroll County Bureau of Engineering for volunteering his time, and shuttling trash streamside to Goodwin's Quarry Road where it was picked up and disposed of by the Carroll County Roads Department.



Bureau of Resource Management (BRM) • 225 N. Center St., Westminster, MD 21157 • 410.386.2712  
<https://www.carrollcountymd.gov/government/directory/land-resource-management/resource-management/>

*Protecting and managing Carroll County's natural resources for the pleasure and enjoyment of its Citizens*



## Fall 2021 Tree Plantings

By Byron Madigan, Water Resource Supervisor

Plantings implemented this fall by the Bureau looked a little different than most years. In addition to continuing to implement the Bureau's tree planting program, we also partnered with the Chesapeake Bay Alliance for a riparian planting in Double Pipe Creek, as well as with the Carroll County Outdoor School for an upland planting at the Hashawha Environmental Education Center.



*Hashawha Environmental Center*

On a warm sunny day in early December, 6<sup>th</sup> grade students from Mount Airy Middle School got the opportunity to learn from Jon Bowman, the County's Forest Conservation Specialist, the importance of trees as it relates to the aquatic and terrestrial environments, as well as the proper way to plant and protect a newly planted tree. Following the tutorial, the students broke into small groups and put into practice what they learned by planting approximately 200 trees over an acre at the Hashawha Environmental Education Center.



Then, through the Bureau's tree planting program, a 6-acre planting on an open space parcel located adjacent to the Carroll County Commerce Center, just outside the corporate limits of Westminster, was implemented. This project consisted of both a streamside and upland planting to an unnamed first order tributary to the West Branch Patapsco.



*Carroll County Commerce Center*

The 3<sup>rd</sup> planting this year in the Little Pipe Creek Watershed occurred as a result of coordination between the Carroll Soil Conservation District, the Bureau of Resource Management and the Alliance for the Chesapeake Bay and resulted in the implementation of over 3 acres of riparian planting on private property.

Grant funding provided by:



Successfully establishing tree plantings will help remove excess nutrients from stormwater runoff, as well as provide shade for cooler water temperatures within these Use IV-P streams, which are classified as recreational trout waters and are capable of supporting adult trout for a put and take fishery.



*Bradford Property*

Grant funding provided by:



Maintenance and inspections of these plantings will occur for a minimum of 3 years to ensure establishment of a successful planting.



# Stormwater Update

By Ed Singer, Watershed Management Coordinator

## Mayberry Stream Restoration

The **Mayberry Stream Restoration** project is located off Mayberry Road between Westminster and Taneytown. Construction of this project was awarded to Magstone, LLC and started in January 2021. This project is nearing completion and included restoration of over 7,000 feet of stream on the Mayberry Game Protective Association, Inc. property. Several larger trees were maintained, and the streambanks are being reforested as part of the project. A stream restoration helps reduce stream bank erosion, minimizes the down-cutting of the stream bed, and restores the natural stream system. This leads to better water quality within the stream and in receiving water bodies downstream. A portion of this project was funded through the Chesapeake & Atlantic Coastal Bays Trust Fund.



*Mayberry Stream Restoration*

Grant funding provided by:



## Woodsyde Stormwater Management Facility and Stream Restoration

The **Woodsyde** project is located off Piney Ridge Parkway in Eldersburg. Construction of this project was completed by Magstone, LLC and took a little more than a year to complete. The landscape planting along the stream channel and Piney Ridge Parkway was recently completed. A portion of the construction costs for this project are being paid for by MDE MWQFA through the Bay Restoration Fund.

*Woodsyde*

Grant funding provided by:



**Maryland**  
Department of  
the Environment



## Trevanion Terrace Stormwater Management Facility

The **Trevanion Terrace** project is located off Trevanion Terrace in Taneytown. Construction of this project was awarded to CJ Miller, LLC. The new facility will provide water quality treatment for the 189 acre drainage area that includes 50.2 acres of paved and other impervious surfaces. Construction began in August 2021 and is about 65% completed. Substantial rock formations are common in Taneytown and this project involved blasting and removing approximately 20,000 cubic yards of rock and earth. A portion of the construction costs for this project are being paid for by MDE MWQFA through the Bay Restoration Fund.

*Trevanion Terrace*

Grant funding provided by:



**Maryland**  
Department of  
the Environment



# Think Twice on How you De-Ice

By Ed Singer, Watershed Management Coordinator

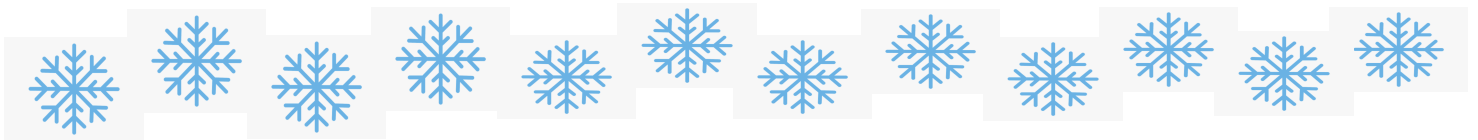
The overuse of chemical deicers can have an adverse impact on vegetation, wildlife, and domestic animals; contaminate groundwater and surface water sources; and can even cause premature wear and damage to treated surfaces and other hardscapes. Most Carroll County residents rely on groundwater for their water supplies and high chloride can damage plumbing fixtures, appliances, and pipes and unnecessarily increase sodium intake in water we consume. Overuse of deicers is detrimental to plant life as it impedes the uptake of moisture and nutrients and leaves exposed soil susceptible to erosion.

When winter weather is expected where icing may occur please consider alternative methods, which not only can protect our environmental resources, but also save money by avoiding unnecessary over application.

Some strategies include:

- Shovel and plow as much as possible and avoid overapplying chemical deicers to melt snow.
- Kitty litter containing clay or cold ashes can be used as an alternative to deicers as these can improve vehicle traction on paved surfaces.
- Prepare early and lay down a tarp or burlap to prevent ice from forming on steps and sidewalks.
- When necessary, spread deicers thinly and evenly and do not over apply.
- Avoid using deicers containing ammonium sulphate or ammonium nitrate and do not use garden fertilizers for deicing.
- Alternative deicers containing calcium magnesium acetate and potassium acetate are more expensive, but less corrosive and less environmentally impactful.

Help the Carroll County Bureau of Resource Management protect our natural resources for the enjoyment of the citizens of Carroll County.



## Meet the Staff

### Ed Singer Watershed Management Coordinator

*Ed is responsible to coordinate and implement watershed assessment, restoration, and management practices for the Carroll County watershed management efforts in accordance with Federal, State, and local laws and assist in performing watershed assessment studies as needed. His role involves coordinating with many internal and external partners and contractors to facilitate permitting and completion of restoration projects. Ed received his bachelor's degree in Biology, Environmental Tract from Western Maryland College (now McDaniel). He is a retired veteran who served 27 years in the U.S. Army Reserve and Army National Guard and worked 34 years at the Carroll County Health Department serving as the County Health Officer and previously as the Environmental Health Director. Ed lives in Manchester with his wife, Michelle and has 2 adult children and 3 dogs. He likes biking, skiing, white water rafting, and anything you can do in the water.*



### Denise Mathias Office Technician

*The primary role of the Office Technician is to support the personnel of the Bureau as well as the citizens of Carroll County. Denise is a lifelong resident of Carroll County, and resides here with her husband, son and fur baby. She is part of a family owned lawn mowing business, and comes to us with 27 years of administrative and management experience. In her spare time she enjoys yoga, traveling and spending time with family and friends.*

