

AGENDA

- Who is the Alliance for the Chesapeake Bay?
- Stormwater Technical Assistance for Towns Program Overview
- Green Infrastructure Action Plan Walkthrough
- Other Resource for Local Governments
- Questions



VISION

We envision clean water and resilient landscapes, cared for by all the people who live, work, and play in the Chesapeake Bay watershed.

MISSION

The Alliance restores the lands and waters of the Chesapeake Bay watershed. Our collaborative and action-oriented approach delivers on-the-ground solutions, technical assistance, and builds capacity to achieve healthier lands and cleaner water.

VALUES

- •Adaptive We design tactics to achieve common goals.
- •Collaborative We partner across sectors and regions.
- •Result-Oriented We deliver efficient, measurable, and holistic programming.
- Equitable We prioritize inclusivity in directing our impact.



AGRICULTURE





FORESTS





GREEN INFRASTRUCTURE





STEWARDSHIP & ENGAGEMENT



STORMWATER TECHNICAL ASSISTANCE FOR TOWNS (STAT)

STAT OVERVIEW - GOAL

 Provide recommendations to VA Towns to utilize green stormwater infrastructure (GSI) to address erosion, flooding, and stormwater issues.



STAT OVERVIEW - PROCESS

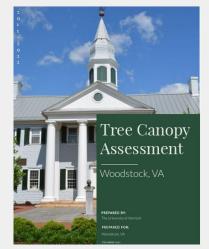
Site Visits







Desktop Analysis







STAT OVERVIEW - COLLABORATION



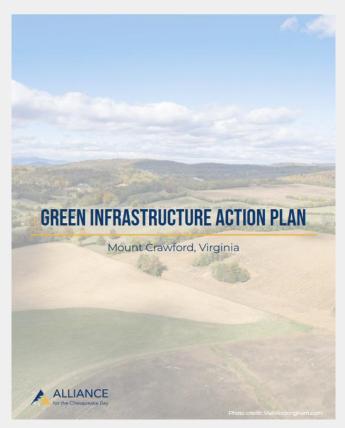








STAT OVERVIEW - PRODUCT



PROJECT PURPOSE

This Green Infrastructure Action Plan is a guiding document that provides a list of recommendations to address stormwater runoff and reduce erosion in your community. In order to help town leadership make informed decisions when planning and pursuing funding for projects, the green infrastructure practices recommended in this plan come with a range of price and maintenance commitments. Each recommended green infrastructure practice also includes potential funding sources and implementation partners. By implementing these recommendations, your community can improve its climate resilience and contribute to the larger effort to improve the health of local waterways and the Chesapeake Bay.

WHAT IS GREEN INFRASTRUCTURE?

Green Infrastructure is an approach to water management that protects, restores, or mimics the natural water cycle. By using plants, permeable surfaces, rainwater harvesting, or landscaping, rain water will be stored on site, allowing it to infiltrate back into groundwater, which will reduce erosion of town property and reduce pollution entering local waterways. Green infrastructure can improve water quality, reduce flooding, increase wildlife habitat, and improve air quality.

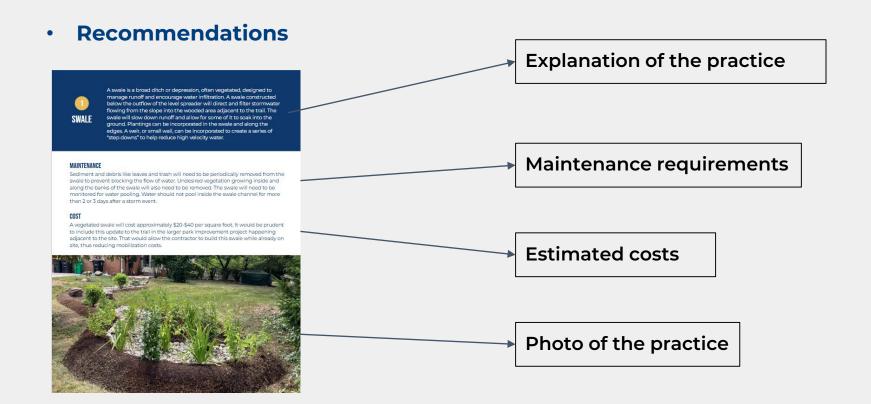


For our forests. For our streams. For our future.

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GREEN STORMWATER INFRASTRUCTURE ACTION PLAN

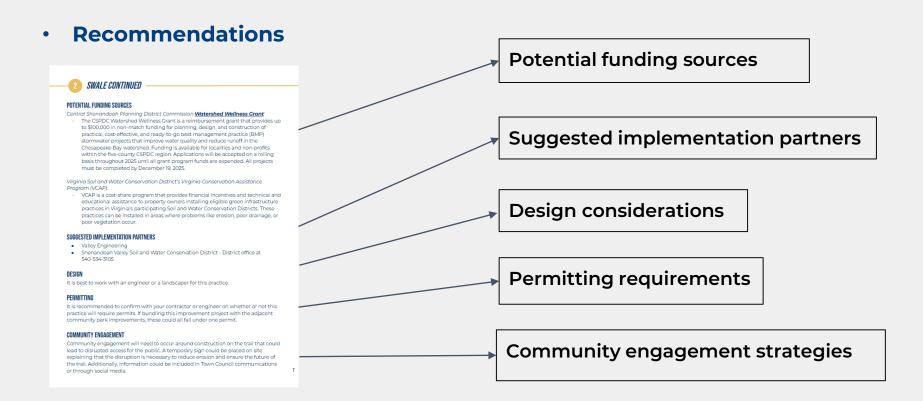
GREEN INFRASTRUCTURE ACTION PLAN



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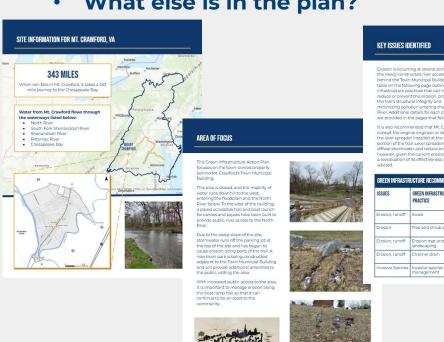
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GREEN INFRASTRUCTURE ACTION PLAN



GREEN INFRASTRUCTURE ACTION PLAN

What else is in the plan?



KEY ISSUES IDENTIFIED

the newly constructed river access trail behind the Town Municipal Building. The table on the following page outlines green infrastructure practices that can help reduce or prevent this erosion, protecting the trail's structural integrity and minimizing pollution entering the North River. Additional details for each practice are provided in the pages that follow.

It is also recommended that Mt. Crawford consult the original engineer or designer of the level spreader installed at the upper portion of the trail. Level spreaders help diffuse stormwater and reduce erosion; however, given the current erosion issues. a reevaluation of its effectiveness is



LOCAL RESOURCES

ALLIANCE FOR THE CHESAPEAKE BAY

Name: Rick Mittler, Local Government Projects Coordinator Email: rmittler@allianceforthebay.org Phone: (804) 775-0951

Address: 612 Hull Street, Suite 101C, Richmond, VA 23224

CENTRAL SHENANDOAH PLANNING DISTRICT COMMISSION Name: Zac Beard, Program Manager

Email: zach@cspdc.org Phone: (540) 885-5174

Address: 112 MacTanly Place, Staunton, VA 24401

SHENANDOAH VALLEY SOIL AND WATER CONSERVATION DISTRICT Name: Megen Dalton, District Manager

Email: info@svswcd.org Phone: (540) 534-3105

Address: 1934 Deyerle Avenue, Suite B, Harrisonburg, Virginia 22801

VIRGINIA DEPARTMENT OF FORESTRY

Name: Stuart Baker, Area Forester Email: stuart.baker@DOF.virginia.gov Phone: (434) 987-8326

Address: 90 Forestry Center Lane, Crimora, VA 24431

VIRGINIA MUNICIPAL LEAGUE

Name: Mitchell Smiley, Policy Manager, Transportation and Natural Resources Email: msmiley@vml.org

Phone: (804) 401-7425 Mailing Address: P.O. Box 12164, Richmond, VA 23241 Office Address: 13 E. Franklin St., Richmond, VA 23219

. Watershed Wellness Grant: www.cspdc.org/programs-services/wip-iii/ Central Shenandoah Valley Master Gardeners: www.csvmga.org The Eight Essential Elements of Conservation Landscaping: www.chesapeakelandscape.org/resources/the-eight-essential-elements Native Plant Center; nativeplantcenter.net or Plant Ridge & Valley Natives: A Guide for Gardeners storage.googleapis.com/vnps-public/PlantRidge%26ValleyNativesDigitalsmall-C.pdf Japanese knotweed: extension.psu.edu/japanese-knotweed 7. Blue Ridge Prism: www.blueridgeprism.org B. Virginia Invasive Plant Coalition: www.virginiainvasives.org/resources Virginia Invasive Plant ID & Control Tool: www.blueridgeprism.org/plants 10. Headwaters Master Naturalists: www.headwatersmn.org ADDITIONAL RESOURCES Native Plants or Wildlife Habitat and Conservation Landscaping: ying Green: Strategies to Improve Operations and Maintenance of Green

stainable Landscape Maintenance Manual for the Chesapeake Bay Watershed

Aggetation in Stormwater Best Management Practices:

WHO WE ARE WORKING WITH









WHO WE ARE WORKING WITH

Is your town interested?



THANKS

- Key Partner
 - Virginia Municipal League

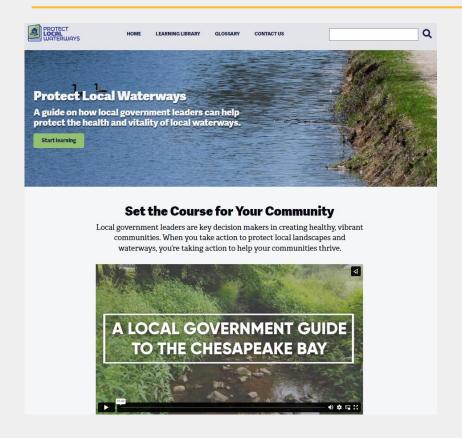


- Funding
 - National Fish and Wildlife Foundation



OTHER RESOURCES

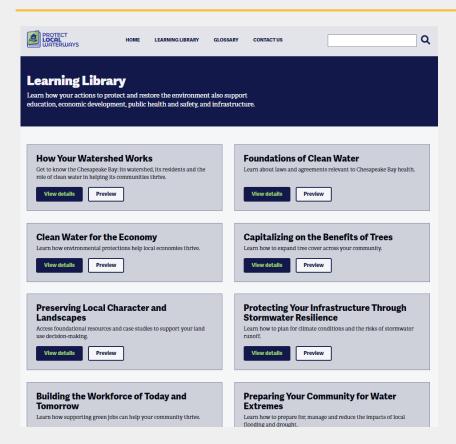
PROTECT LOCAL WATERWAYS



Resource Hub for Local Officials

Designed by Local Officials for Local Officials

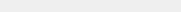
PROTECT LOCAL WATERWAYS - LEARNING LIBRARY



11 Learning Modules

PROTECT LOCAL WATERWAYS - MODULES





Henrico County Pennsylvania

What is stormwater and how can it be

dangerous to my community?

Case Studies You'll Find Inside

Claud E. Kitchens Outdoor School

What can I do to mitigate flood-related

Binghamton



impact infrastructure?

How will future climate conditions

Annapolis

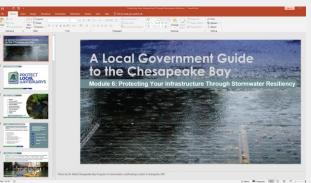


A line of cars drives down a flooded street. (Envato Elements)

Norfolk NORFOLK, VIRGINIA

Preparing for Weather Extremes

In 2018, Norfolk, Virginia, adopted a zoning ordinance that directs new and more intense development to be built on higher ground. In an effort to mitigate the impacts of sea level rise, the ordinance established a Coastal Resilience Overlay zone, wherein development must meet new flood resilience requirements, and an Upland Resilience Overlay zone, designed to encourage development in areas of the city at lower risk of flooding.



Highlights

Education

Excess stormwater runoff can cause flooding and other damage to school buildings, leading to extended closures and missed school days. Excess runoff can also disrupt bus routes and impact internet access that is needed for schoolwork



Economic Development

Flooding harms businesses, damages private property and threatens the health of local waterways, which often support tourism and outdoor recreation.



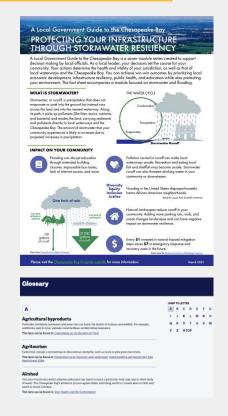
Public Health and Safety

Stormwater runoff picks up litter, toxic contaminants, nutrients, sediment and other pollutants as it passes over the land. These pollutants are typically discharged directly into local waterways, without having been



Infrastructure Maintenance and Finance

Flooding endangers critical community infrastructure, including roads, bridges, power lines, cellular phone service and access to drinking water.



PROTECT LOCAL WATERWAYS



Online resource library designed by local government leaders for local government leaders. Download resources, review case studies, and explore how your actions to protect and restore the environment also support local education, economic development, public health and safety, and infrastructure

Visit <u>protectlocalwaterways.com</u> or scan the QR code!



WATERSHED CURRENTS NEWSLETTER



Bi-monthly curated newsletter that highlights local case studies and provides inspirational and informative resources for local governments and interested parties within the Chesapeake Bay watershed. Each newsletter is themed-focused and organized by local priorities impacting local government communities today.

Scan the QR code to sign up for our newsletter!



QUESTIONS?

THANK YOU!

Rick Mittler

Local Government Projects Coordinator rmittler@allianceforthebay.org
C: 540-661-7497



@Allianceforthebay



@AllianceForBay



@allianceforthebay

FOR OUR FORESTS. FOR OUR STREAMS. FOR OUR FUTURE.

