






Reducing pollution in the Rappahannock from your own backyard!

Friends of the Rappahannock (FOR) was formed in 1985 as a non-profit, grassroots conservation organization.

We are citizens from all walks of life, whose common goal is to maintain the water quality, living resources, and scenic beauty of the Rappahannock River and its tributaries.

Mission:
To be the Voice and Active Force for a healthy and scenic Rappahannock River.



We achieve our mission through three program areas

- Advocacy
 - LID Ordinances, Choose Clean Water Coalition
- Education
 - Summer Camps, Field Trips, River's Edge Program
- Restoration
 - River Cleanups, Student Stream Team, Rappahannock Restore Corps, Rainscape Retrofits*



Friends of the Rappahannock

Low Impact Development is...

A design approach to land development (or re-development) that works with nature to manage stormwater as close to its source as possible (**Onsite**)

This is achieved through designing a landscape to mimic the **pre-existing site hydrology** to the maximum extent practicable.

LID employs principles such as preserving and recreating **natural landscape features**, minimizing impervious surfaces to create functional site drainage that treat stormwater as a **resource** rather than a waste product.



Low Impact Development

Program Mission

Reduce the amount of unwanted contaminants (mostly nutrients and sediments) and excessive quantities of stormwater reaching the Rappahannock River and tributaries by assisting homeowners with managing runoff on site

Work to implement a high volume of low-tech, low maintenance, residential scale best management practices to encourage infiltration.



Rainscape Retrofit Program

Program Description

Resources sharing approach designed to share the cost of construction /implementation, provide technical assistance with project assessment and best management practice (bmp) design, and work alongside the homeowner to provide volunteer labor through the Rappahannock Restore Corps.



Rainscape Retrofit Program

Best Management Practices (BMPs)

- All encompassing term used across disciplines
- **EPA Definition:** a Permit condition used in place of or in conjunction with effluent limitations to prevent or control the discharge of pollutants.
- BMPs may include a schedule of activities, prohibition of practices, maintenance procedure, or other management practice.



Best Management Practices

Structural BMPs

- Retention ponds, grass swales, rain gardens, soil amendments etc

Non-Structural BMPs

- Fertilizer practices, timed irrigation, management decisions etc
- Urban Nutrient Management Plan (Master Gardeners)



Best Management Practices

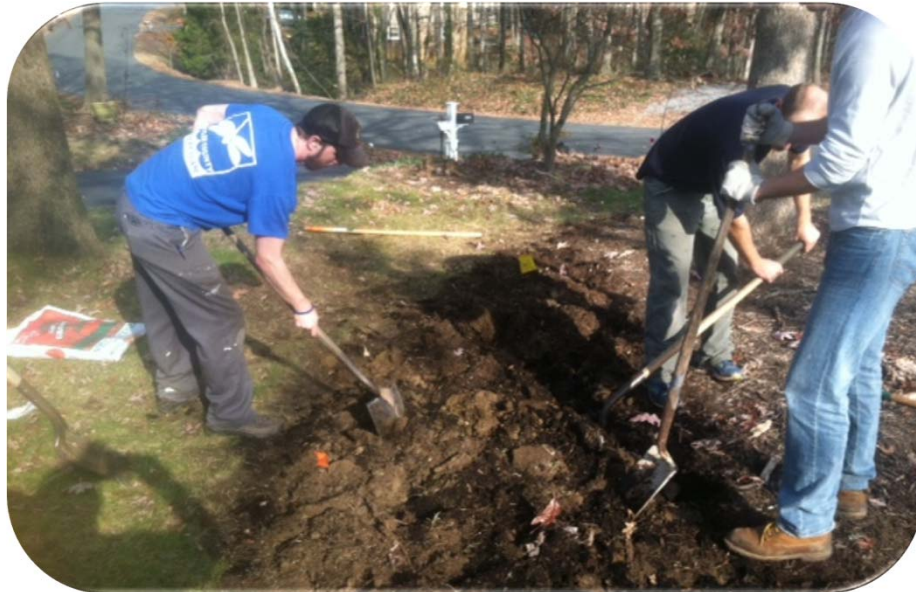
1. Downspout disconnection
2. Soil amendment
3. Soil aeration and decompaction
4. Rain barrels/cisterns
5. Rain gardens/ bio-retention
6. Porous pavers/ permeable concrete
7. Green roofs



Rainscape Retrofit Solutions



Downspout Disconnection



  Soil Amendment



  Soil Aeration and Decompaction



Rain Barrels/Cisterns



Rain Gardens



Porous Pavers

1. Interest Form- Hosted at www.riverfriends.org
2. Application- Sent to landowner to complete
3. Site Assessment- FOR representative conducts aerial delineation using GIS and visits site for photos and ground truth
4. Project Proposal- FOR staff develops site specific stormwater solutions and budget
5. Construction



How It Works

How FOR Can Help You

- Cost sharing
- We will work with you throughout the whole process from Rainscape Retrofit design to construction
- We will bring in a team of volunteers to assist in the construction process



Target Areas:

- Warrenton, Culpeper, Lake of the Woods

25 Site Assessments

- Performed by FOR, volunteers, and Master Gardeners from Fauquier, Orange, and Culpeper Counties

Implementation of 10 Rain Gardens

Implementation of 15 BMPs

- structural or non-structural
- ### Homeowner Guide Development

March 2014- September 2015



Upper Basin Rainscapes



Bryan Hofmann
(540) 373-3448 x 112
Bryan.hofmann@riverfriends.org
www.riverfriends.org

Contact Information