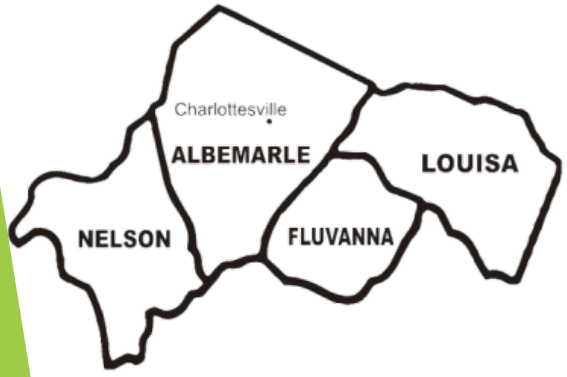
Virginia Conservation Assistance Program (VCAP)

Michael Ramsey



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Objectives

- Introduction to the program
- Discuss the 10 Urban Best Management Practices
- Preview Cost Share Rates

VCAP and Charlottesville

What is VCAP?

- Financial incentive program to encourage private homeowners to install Urban Best Management practices (BMPs)
- Covers 10 BMPs

Charlottesville (CCAP)

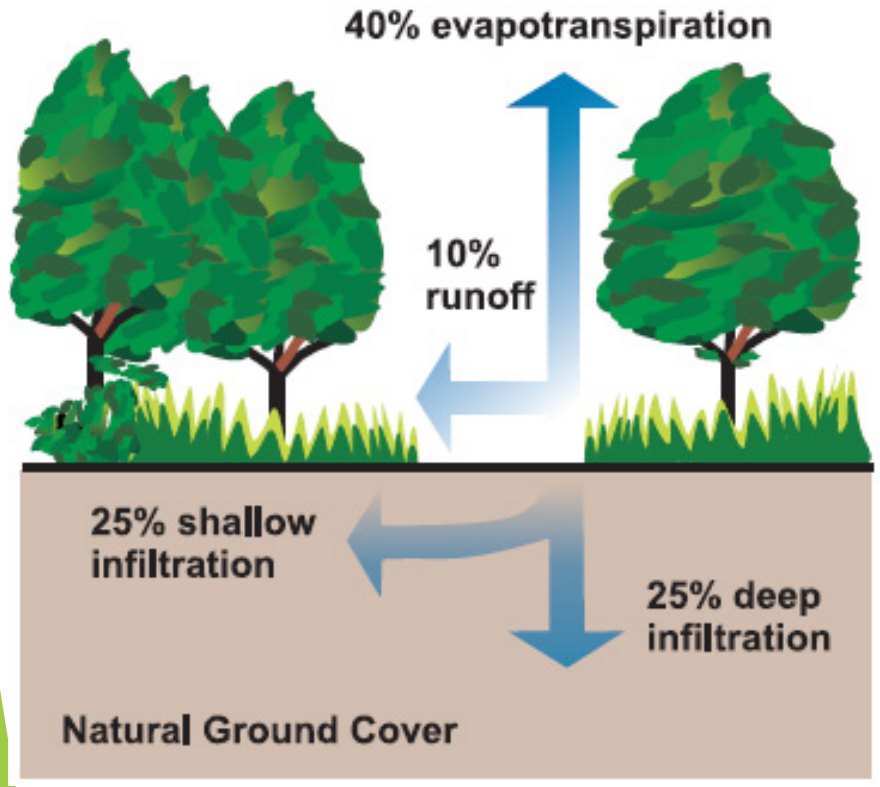
- $32,000 annually funded through the Stormwater Utility Fee (2014)
- Complements credit system for stormwater utility

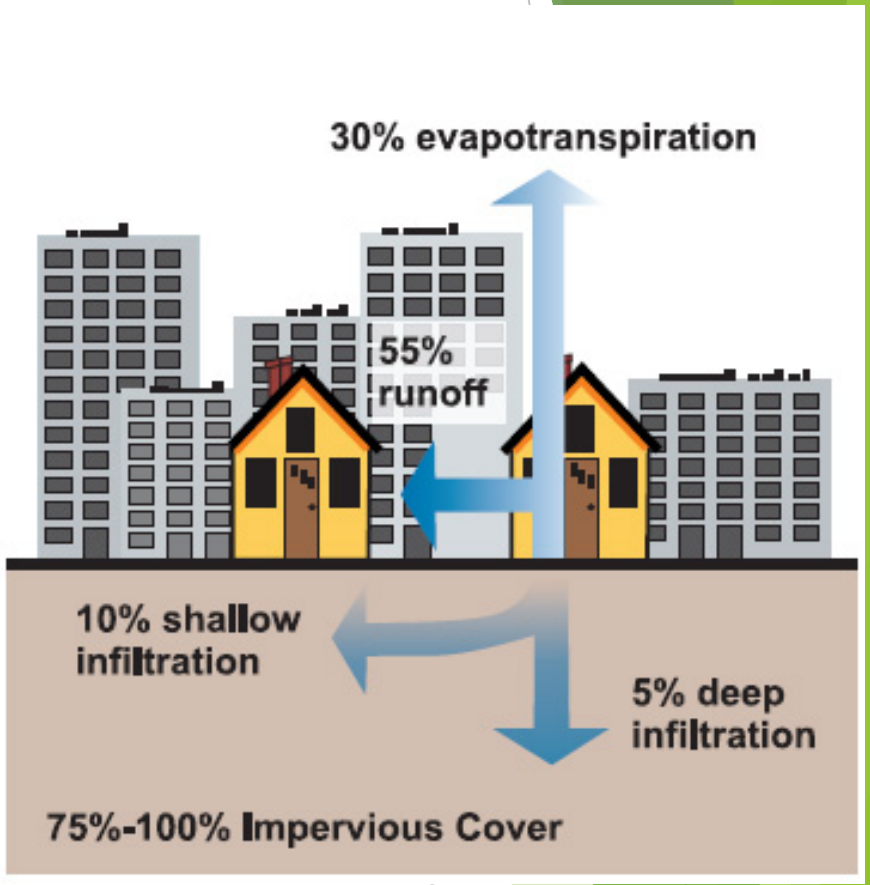
Charlottesville Rain Garden –
2015 BUBBA Residential Category

Accomplishments since 2016

- Has doubled its available cost share funding from $250,000 (2016) to $500,000 (2017). Aiming toward 1 million next year
- Grown from a 4 district operation, to a program that now functions within 20 districts throughout the state
- Holds a technical advisory committee every quarter to improve the manual and advise on spot checks
- By popular demand has added Living Shorelines to its list of BMP's

Effects of Urbanization:





VCAP BMPs

Photo Credit EPA

1. Conservation Landscaping
2. Rain Gardens
3. Bioretention Basins
4. Rainwater Harvesting
5. Impervious Surface Removal
6. Vegetative Conveyance Systems
7. Constructed Wetlands
8. Permeable Pavement
9. Green Roofs
10. Living Shoreline

Turf Conversion: WHY?

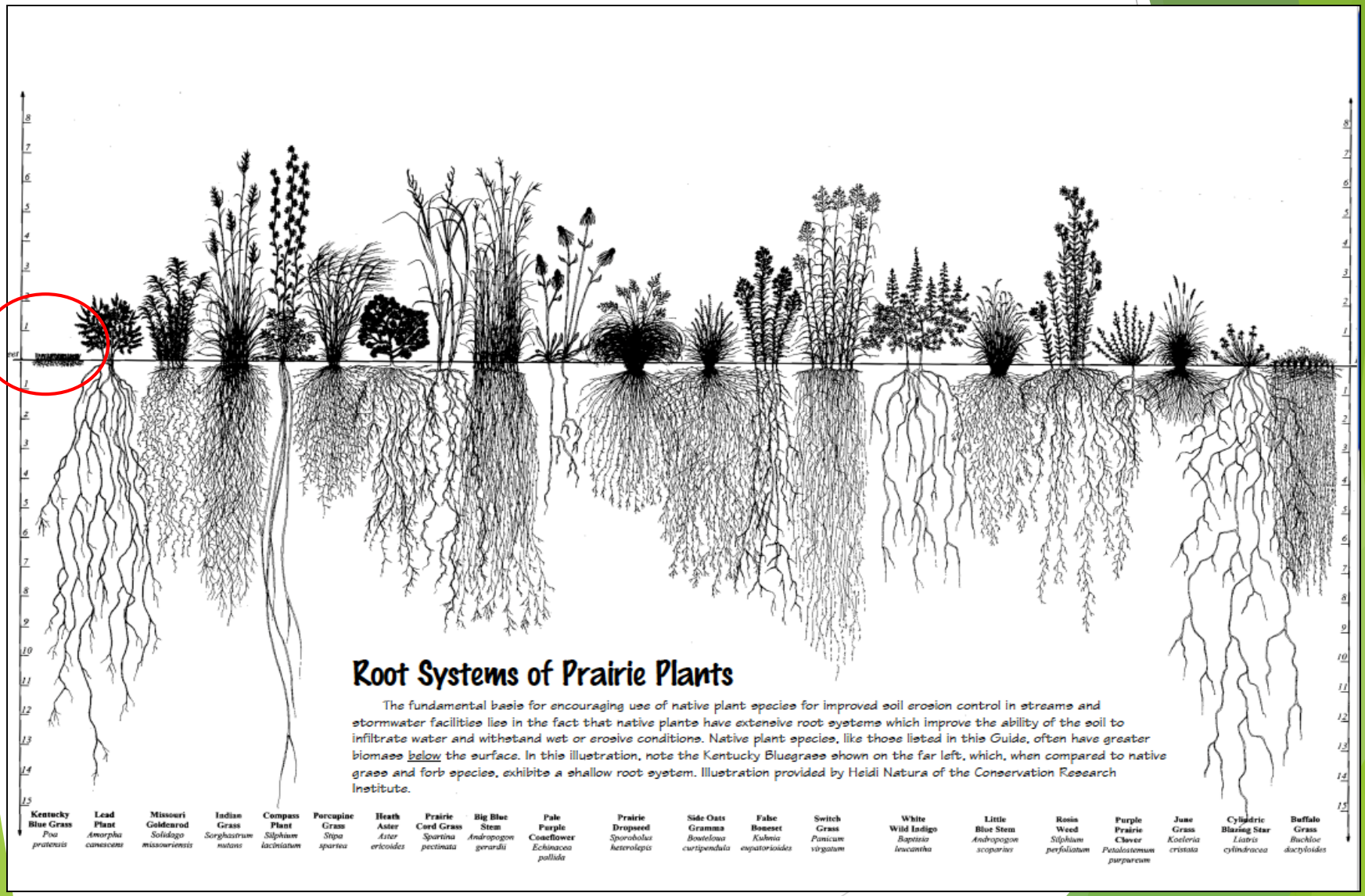
Irrigation:

- Wasting clean, treated water
- Wasting energy resources
- Additional waste when water lands on pavement

Fertilizers & Herbicides, Insecticides:

- Applied on most lawns (>50% homes)
- Unregulated
- Misapplied (too much, wrong time, wrong weather)
- **Urban Nutrient Management Plans**

TURF vs. NATIVE MEADOW



Why Native Plants?

- Stormwater management
- Increase wildlife habitat & diversity
- Pollinator habitat
- Fewer inputs (water, chemicals)

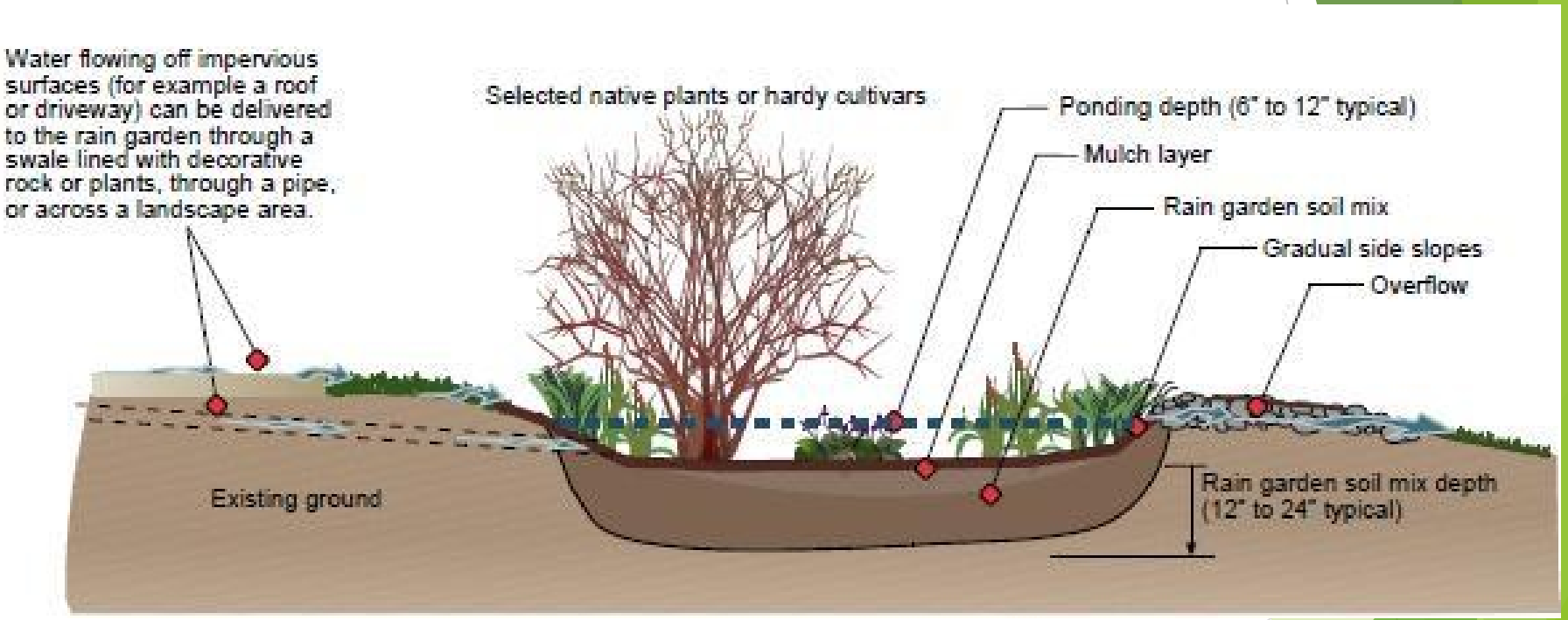
Conservation Landscaping (CL): Meadow

Conservation Landscaping (CL): Meadow

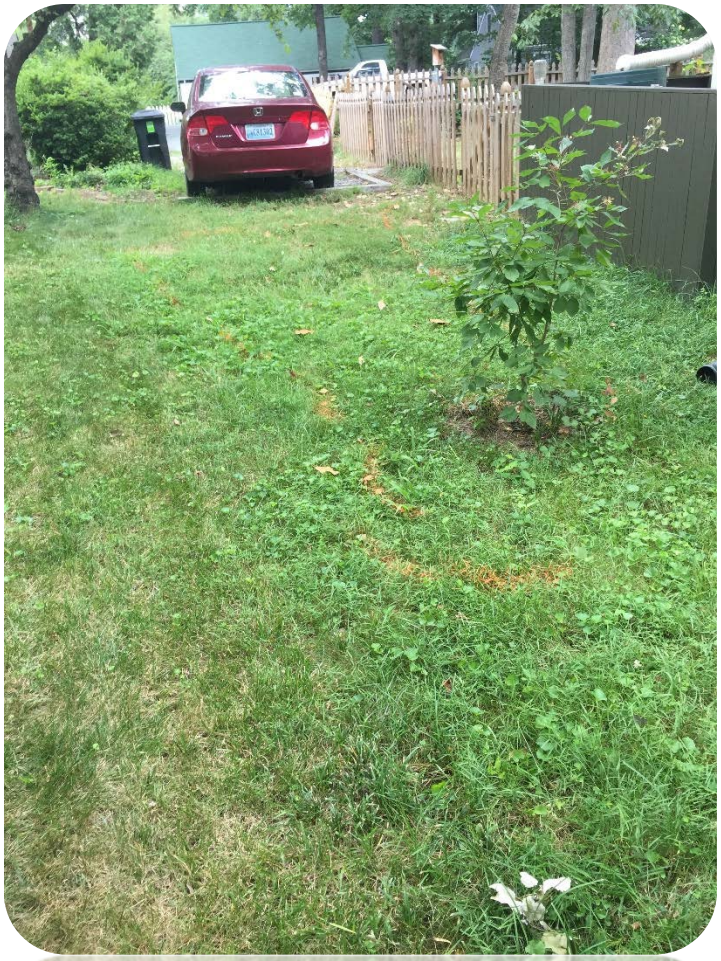
Conservation Landscaping (CL): Shrubs & Small Trees

Rockfish Community Center

Rain Garden (RG)

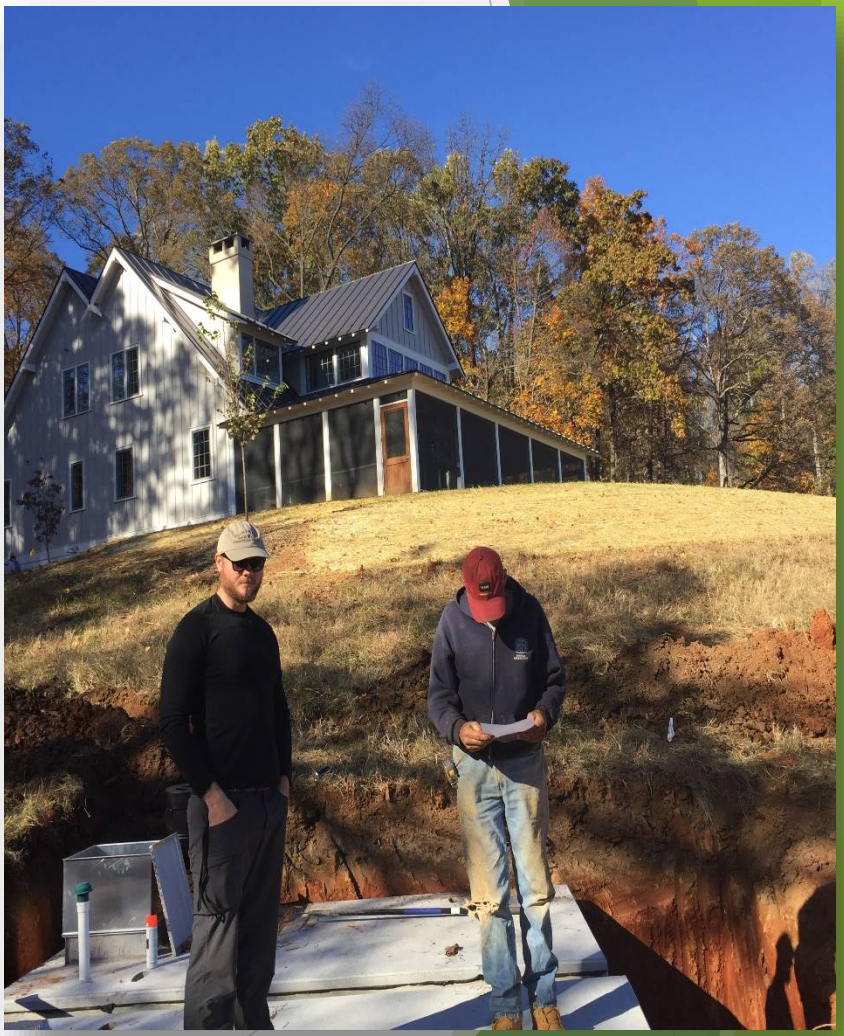


RG Installation



Finished Product

Rainwater Harvesting (RWH)

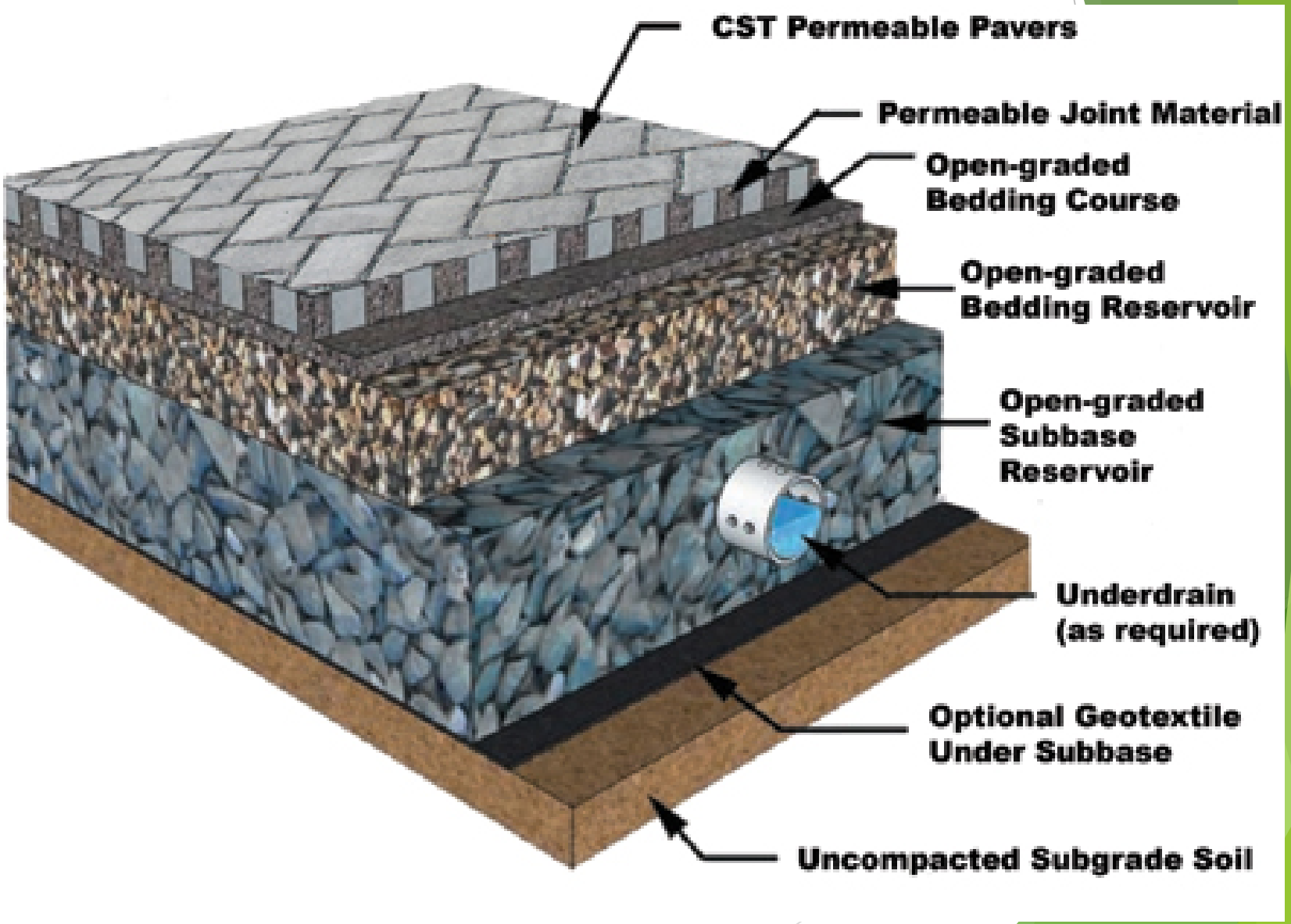


Easier Installations

Impervious Surface Removal (ISR)

Completed!!!

Permeable Pavers (PP)



Permeable Pavers (PP)

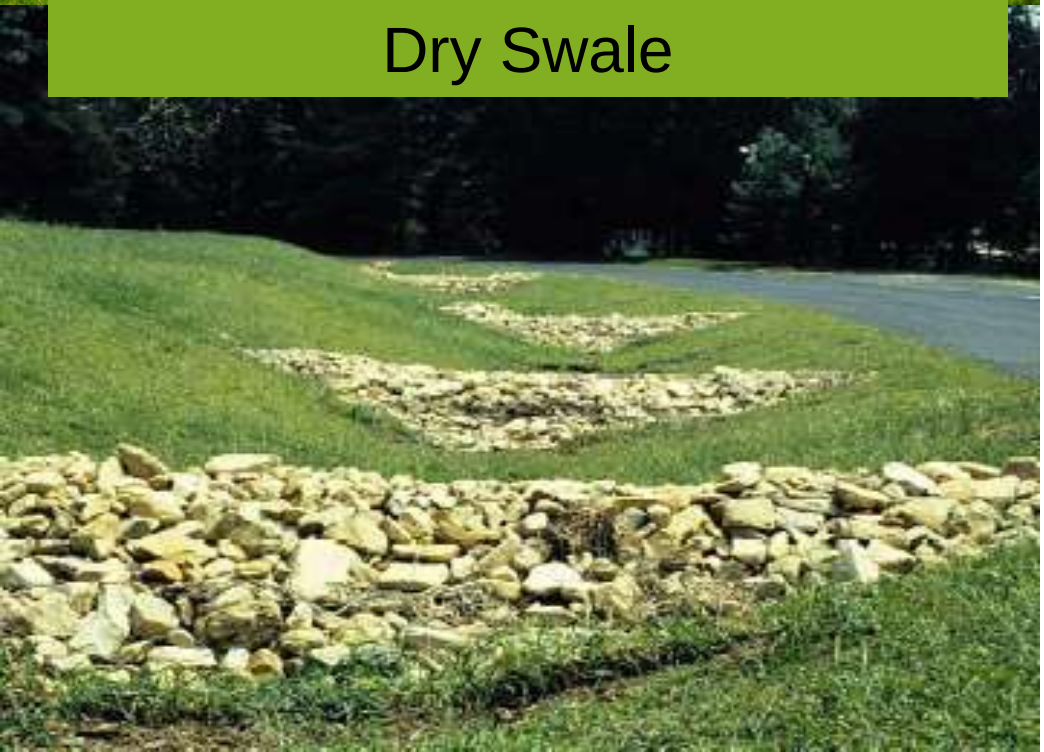
Bioretention (BR)

Constructed Wetland (CW)

Vegetative Stormwater Conveyance (VSC)

Grass Channel

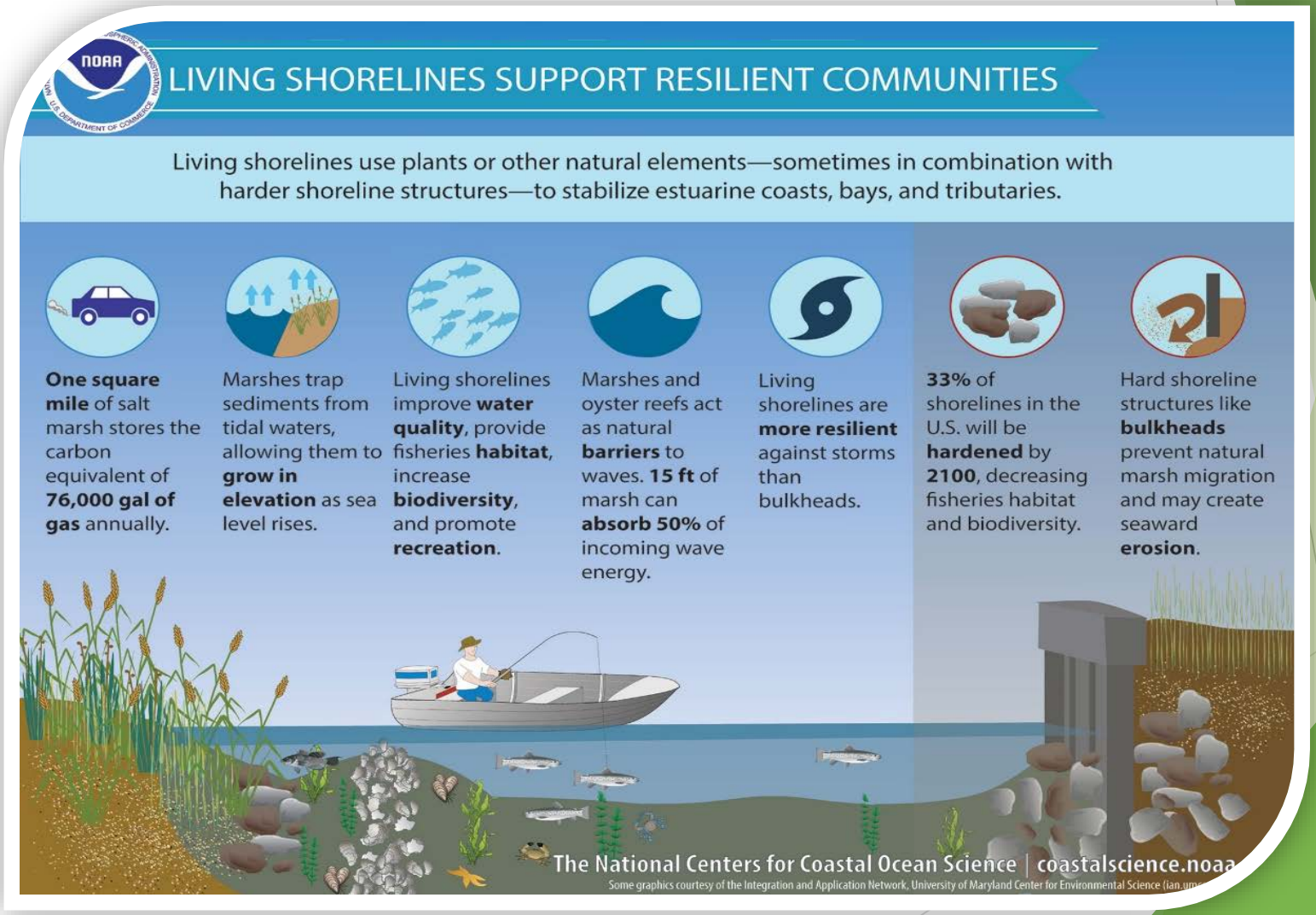
Dry Swale



Wet Swale

Green Roof (GR)

Living Shoreline



Cost Share Rates

Practice	Lifespan	Reimbursement Rate	Max per application
Impervious Surface Removal (ISR)	10 years	$2.50 per square foot	$ 10,000.00
Conservation Landscaping (CL)	10 years	75% of costs	$ 3,500.00
Rain Gardens (RG)	10 years	75% of costs	$ 3,500.00
Bioretention Basins and Areas (BB and BA)	10 years	75% of costs	$ 20,000.00
Dry Well (DW)	10 years	75% of costs	$ 3,500.00
Infiltration Basin (IB)	10 years	75% of costs	$ 20,000.00
Rainwater Harvesting (RH)	10 years	$2.00 per gal. of treated vol.	$ 10,000.00
Vegetated Stormwater Conveyance (VSC)	10 years	75% of costs	$ 10,000.00
* Dry Swales (DS)	10 years	75% of costs	$ 10,000.00
* Step Pools (SP)	10 years	75% of costs	$ 10,000.00
* Wet Swales (WS)	10 years	75% of costs	$ 10,000.00
Constructed Wetlands (CW)	10 years	75% of costs	$ 5,000.00
Permeable Pavement (PP)	10 years	75% of costs	$ 20,000.00
Green Roof (GR)	10 years	$10 per square foot	$ 20,000.00
Living Shoreline	10 Years	75% of costs	$ 20,000.00

Process

- Fill out application (TJSWCD Website)
- TJSWCD Rep will set up a site visit
- Application presented to TJSWCD Board
- Final Plans
- Construction of BMP
- Final site inspection
- Reimbursement check sent

Questions?

Please contact your Local Soil and Water Conservation District/
Or go to VASWCD.org