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Shoreline Erosion Advisory Service

- Organization:** Virginia Department of Conservation and Recreation
- What is Provided:** free, unbiased technical assistance including site investigations, written advisory reports, design and plan reviews, construction inspections, and guidance on available financial incentive programs.
- Who Qualifies:** private property owners (residential and agricultural), localities, and state and federal agencies experiencing shoreline or streambank erosion across Virginia
- Contact:** Aaron Wendt
(804) 296-1701 or aaron.wendt@dcv.virginia.gov
<http://www.dcv.virginia.gov/soil-and-water/sea/>

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Opportunities: VCAP

Organization: Virginia Association of Soil and Water Conservation Districts; administered by individual districts

What is Provided: Financial reimbursement of 75% of the total costs, up to \$15,000

Who Qualifies: Public, private, non-profit, and commercial landowners within a participating district. Eligible shorelines must have no more than 1.5-mile fetch distances in any direction, and any structures onsite must be at least three years old

Contact: Your local district
Colonial SWCD: robyn.goad@colonialswcd.net

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Lower James SWCDs



Colonial SWCD: James City, Charles City
James River SWCD: Prince George
Peanut SWCD: Surry, Isle of Wight, Suffolk
Virginia Dare SWCD: Chesapeake, VA Beach
No District: Newport News, Hampton, Norfolk, Portsmouth



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Opportunities: Elizabeth River Project

Living Shorelines on the Elizabeth River

- ERP is actively looking for subcontractors to construct living shorelines
- Projects mostly designed & permitted by ERP, subcontractors needed for install
- Projects cost shared to ease cost burden on landowners – tell your clients!
- Contractors with all levels of training welcome – Shadow an installation, volunteer, become familiar with techniques
- Contact: Barbara Gavin, bgavin@elizabethriver.org 757-392-7135



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Opportunities: James River Assoc.

Living Shorelines on the Lower James

- JRA is looking for contractors!
- Living shorelines are designed and permitted by JRA staff.
- Need contractors to do installations and maintenance on existing projects!
- Grant funded cost-share program for homeowners
- We will send out an RFQ soon
- Contact: Ryan Walsh, rwalsh@thejamesriver.org 757-703-0671



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LRNow Living Shoreline Opportunities



- LRNow coordinates 1-3 residential living shorelines in Virginia Beach each year
- Subcontract for design and installation
- Funding assistance from VCAP, VBCAP
- Volunteer labor to further reduce cost to homeowners
- Contact: Vince Bowhers, Vince@LRNow.org 757-773-1636

LYNNHAVENRiverNOW

Restoring Virginia Beach Waters

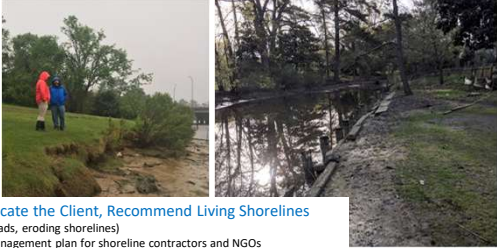
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Business Opportunities

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Advise & Manage




Evaluate the Site, Educate the Client, Recommend Living Shorelines

Look for need (falling bulkheads, eroding shorelines)

Vegetation assessment & management plan for shoreline contractors and NGOs

Sustainable and green infrastructure practices to reduce erosion (buffers, rain gardens, etc.)

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Landscape Professional

Living
Shorelines
Collaborative

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Advise & Manage

ID best approach for your client & site

Research & connect with funding sources

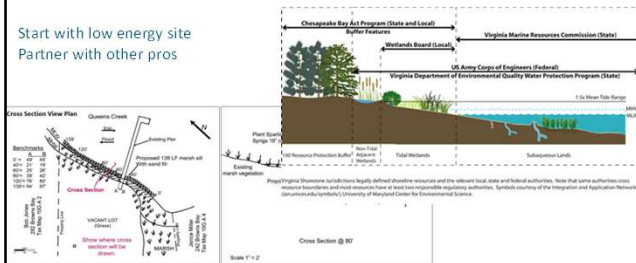
Connect client with technical experts & subcontractors



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Design, Drawings, Permitting

Start with low energy site
Partner with other pros



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Planting Design



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Design

Enhance Water Views

Restore Buffer

Provide Access

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Provide Materials, Labor, Equipment

Plants

Sand

Coir logs

Rock

Fiber mats

Goose fencing

Wooden stakes

E&S

Site prep

Aquatic pesticide applicator


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Monitor & Maintain

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Project Manager or Subcontractor

- Provide plans, ensure compliance and oversee implementation
- Manage contractors, consultants, permitting process
- Obtain permits/approval JPA, local wetlands and Chesapeake Bay boards
- Prepare site
 - Protect sensitive features
 - Establish construction staging & paths
 - Remove invasive species
- Lay out buffer and high marsh plantings
- Train maintenance people



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Landscape Professional

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Protect Sensitive Features During Construction

- Vegetation & Soil Protection - Exclusion Fencing
- Avoid soil compaction and tree root damage from vehicles & foot traffic – protect ground w/
 - 6-12" wood chips
 - ¾" thick plywood
 - 4x4" wood beams over 4"+ woodchips
 - 4-6" gravel over taut, staked geotextile fabric
 - Commercial logging or road mats on top of mulch layer.
- Make sure erosion control methods are in place and functioning at all times and remove when finished




Image: Bay Environmental

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Living Shoreline Outreach

Living Shorelines

Better for property owners and the environment. Integrated approach for shoreline erosion management.



VIMS


Virginia Institute of Marine Science

Shoreline Protection for over 80 years

Living Shorelines

KEY REFERENCES: VIRGINIA

How long does it take to grow a living shoreline?



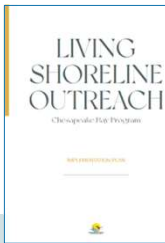
Bay-Wide Resources

Tool Kit

Materials

Talking Points

Various Audiences



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