# A SOLUTION FOR SHORELINE MANAGEMENT: LIVING SHORELINES

#### WWW.NCCOAST.ORG/LIVINGSHORELINES



Living shoreline at Camp Albemarle in 2017



Living shoreline at Camp Albemarle after Hurricane Florence



Bulkhead at Camp Albemarle after Hurricane Florence

#### What is a living shoreline?

Shoreline change and erosion are continuous processes, driven by currents, waves, winds, storms, sea levels and human influences. Bulkheads are "hardened" structures commonly installed along sound-side shorelines to try to reduce erosion. Unfortunately, they destroy natural marsh and cause increased erosion of nearby properties. Living shorelines are an alternative solution for shoreline management that maintain the natural marsh. These systems often use marsh plants and sometimes oyster or rock to create a more natural and productive shore.

#### Did you know?

- North Carolina has over 12,000 miles of shoreline bordering the bays, creeks and sounds that make up our estuaries.
- Estuaries are where fresh water and salty ocean water meet. They are home to many important fish and shellfish that need protection.
- Each year an estimated 26 miles of estuarine shoreline are "hardened."
- Bulkheads are a temporary fix and often need costly repair.
- Living shorelines are longer-term, less-expensive and reduce erosion while maintaining or restoring the shoreline's natural system.
- Living shorelines are more storm-resilient. After Hurricane Florence, none of the North Carolina Coastal Federation's living shoreline projects had major damage.

#### **Benefits**

- Reduced erosion
- Maintained natural marsh
- Protected coastal habitat
- Filtered and improved water quality
- Buffered shore for changing water levels



# Check out our list of contractors and engineers who have been trained to install living shorelines in your region.

### NORTHEAST COAST CONTRACTORS

# Outer Banks Excavating (252) 202-8733 mperry@perrymarine.com

#### **Total Marine Services Inc.**

Winkie Silver (252) 473-5130

#### **Backwater Environmental**

(252) 473-5130 backwater.biz

## NORTHEAST COAST ENGINEERS

#### **Bissell Professionals**

(252) 261-3266 bissellprofessionalgroup.com

#### **Quible & Associates**

(252) 291-8147 quible.com

#### Albemarle & Associates, Ltd.

(252) 441-2113 albemarleassociates.com

### CENTRAL COAST CONTRACTORS

#### **Restoration Systems, LLC**

(252) 333-9852 restorationsystems.com

#### **Sandbar Oyster Company**

(252) 732-4516 sandbaroystercompany.com

# Bobby Cahoon Marine Construction

(252)249-1617 bobbycahoonconstruction.com

#### **Mud Bucket Dredging**

(252) 241-1504 mudbucketdredgingnc.com

# Brooks Dredging and Marine Construction, Inc.

(252) 728-6886 brooksdredging.com

# TD Eure Marine Construction, LLC

252-728-4191 tdeuremarine.com

## SOUTHEAST COAST CONTRACTORS

# Connaway Marine Construction

(910) 264-9599 frontyardshrimpin@gmail.com

#### Maritech, LLC

(910) 270-4058 adamknierim@gmail.com

# GET IN TOUCH WITH THE COASTAL FEDERATION FOR MORE INFORMATION

#### **Northeast Office**

637 Harbor Road Wanchese, NC (252) 473-1607

#### **Central Office**

3609 N.C. 24 (Ocean) Newport, NC (252) 393-8185

#### **Southeast Office**

309 W. Salisbury St. Wrightsville Beach, NC (910) 509-2838

