

East River Living Shoreline

Natrux addressed significant erosion issues on a residential peninsula property with ExoForm™ structures. Natrux worked with a local contractor to plan and produce a modular ExoForm design that was safe, efficient, and low impact to install. Installation of ExoForms was completed within one week.



 Port Haywood, VA

 May 2022

PROJECT OVERVIEW

Client: Private Homeowner

Partners: Middle Peninsula Planning District, Virginia Institute of Marine Science, Shoreline Structures LLC

Application: Residential Infrastructure, Living Shoreline

PROJECT GOALS

- Create a modular and biological living shoreline to eliminate erosion and maintain natural transition from water to marsh
- Provide a cost effective and highly functional alternative to traditional rock, sand, planting approach
- Compare and contrast Natrux ExoForm™ results with traditional rock results at this site over time



Oysters and other marine life visible on ExoForms in less than one year

PROJECT OUTCOMES

- Designed Natrux ExoForms™ to satisfy the needs and conditions of the project site while maintaining a naturalistic visual landscape that blends in with property and surrounding marsh
- Developed and delivered ExoForm™ modules for installation in less than one week while material delays resulted in traditional rock portion of project being staged on homeowner's property for months
- Resolved erosion issues and promoted biodiversity on property while traditional rock portion limited water exchange, impeded living organism habitation, and obstructed natural shoreline transition
- Natrux ExoForms™ provided 3x more linear footage with at 1/3 of the cost and physical impact of rock solution



Natrux ExoForms blend in naturally with the surrounding environment