

New technology helps address old coastal erosion problems

Natrx and Native Shorelines recently partnered to solve a coastal erosion and permitting challenge along 700 linear feet of erosional homeowner properties on Clubfoot Creek, near Havelock, NC and the Pamlico Sound.

Native Shorelines, a division of Restoration Systems, offers its QuickReef™ living shoreline system comprised of a proprietary mixture of natural calcium carbonate materials, cemented together and arranged in the shallow waters of the intertidal zone.

Natrx's patented Dry Forming™ process is a breakthrough approach to providing sustainable, coastal infrastructure resilience tailored to individual site requirements through advanced manufacturing techniques.

Serious erosion from flood conditions in the Neuse River Basin was causing significant land loss for two property owners along Clubfoot Creek. Native Shorelines evaluated the site



conditions and worked with Natrx on a digital design for custom ExoForm structures compatible with the permit requirements and that interlock with QuickReef™ units. Natrx helped ad-

vance the project from digital design, to physical production proof, to permit application and approval in less than one week. Natrx then produced 233 of the custom, naturalistic ExoForm structures to interlock with the QuickReef product, which Native Shorelines installed quickly and efficiently.

Clubfoot Creek is a great example of using new technology to address coastal problems. Natrx is proud of the collaborative nature of this project, whereby its patented Dry Forming technology helped overcome permitting hurdles and cost-effectively solve coastal erosion issues. Natrx anticipates future collaborations with Native Shorelines, and is excited to work with other practitioners and innovators in the coastal resilience space.

