



## Shoreline Erosion Control

### Protect Lake and Pond Banks and Shorelines

Shoreline erosion is a common, natural phenomenon that can occur as a result of harsh weather, recreation, poor landscape design or, simply, an aging freshwater ecosystem. If left unaddressed, your lake, stormwater pond or canal may experience native vegetation and habitat loss, nutrient loading, excess runoff and other complications.

Depending on your needs and budget, a variety of erosion tools are available, including rip-rap, bulkheads, natural-fiber logs, and silt fences. However, SOLitude's most recommended and premium solution is a bioengineered living shoreline.

### Bioengineered Living Shorelines and Hillsides

Bioengineered living shorelines are created by filling a flexible geotextile material with organic material, shaping it to the desired slope, and securely anchoring it to the bank.

Then, sod or native vegetation can be planted directly into the material to form a living buffer around the perimeter.

#### Bioengineered living shorelines can help:

- Provide immediate, long-lasting stability.
- Buffer stormwater runoff, filter pollutants and debris.
- Prevent falls and injuries that could result in liability or lawsuits.
- Enhance aesthetics and property value for homeowners communities and golf courses.
- Restore several feet of valuable waterfront property.



“ I was impressed with how fast this project was completed and how reasonable the cost was. We are stewards of our environment and I value the like-minded commitment to Best Management Practices. ”

**Nate Watkins**

Golf Course Superintendent, Delray Beach, FL

## Bioengineered Living Shoreline Install: Before, During, and After



### Utilizing Hydro-Raking and Hydraulic Dredging

In some cases, bioengineered projects can be paired with hydro-raking or dredging services. Rather than disposing of the organic matter, it may be repurposed by scooping or pumping it into the geotextile materials.

#### Added benefits:

- Restore depth and volume to the waterbody, preventing flooding.
- Potentially reduce the cost of transporting organic matter off-site for disposal.
- Help limit waterbody downtime by conducting services in tandem.



### The Importance of Maintaining a Vegetative Buffer

No matter the type of erosion problem you're facing, it's extremely important to cultivate a beneficial vegetative buffer around your waterbody. Buffers are simple to maintain and help keep sediment in place during rainstorms. They're also known to provide a plethora of benefits beyond erosion control, including nutrient filtration and aesthetic enhancement.

Whether you want to address an existing erosion problem or reinforce the strength and appearance of your aquatic ecosystem, it's important to stay ahead of sedimentation problems using buffer management and shoreline erosion control strategies.

