

THE SEAGATE GOLF & C.C.

DELRAY BEACH, FLORIDA



2018 CASE STUDY



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RESTORATION OF LAKE SHORELINE AT THE SEAGATE GOLF & C.C.

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PROBLEM:

ERODING LAKE BANK RECEDES TO CLAIM THE FAIRWAY CAUSING UNACCEPTABLE AESTHETICS AND UNSAFE CONDITIONS FOR GOLFERS AND STAFF

SOLUTION:

RE-ESTABLISH THE SHORELINE USING DREDGESOX™ EROSION SOLUTIONS TO BUILD A BIOENGINEERED LIVING SHORELINE



PROJECT PROFILE VIDEO

A few years prior, the former superintendent at Seagate had the shoreline of a course lake restored naturally with Sox Erosion Solutions and Nate sees the result every day. "It's a stable lake shoreline and a thriving natural habitat," says Nate, a Class A member of the Golf Course Superintendent Association of America, "I wanted Sox Erosion Solutions to work their magic on this other effected lake."

After conferring with SOX Erosion Solutions, it was determined that the Dredgesox system would be best for this project. The lake suffered from excessive algae and needed to be deepened to provide more capacity for storm water run-off. Dredgesox uses multi-functional amphibious workboats to shape the shoreline and speed the process of creating stable living shorelines.

When erosion on the golf course expanded from lakeshore to the fairway, Nate Watkins, Superintendent of Golf Course and Grounds at Seagate Golf and Country Club took action. He wanted the natural lake shore reclaimed and the fairway restored, and he knew whom to call.



Severe erosion areas on the course began to pose a threat to the course itself and it's golfers.

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The boats dredged and removed excess sediment within the lake which helped reduce nitrates and phosphorus, and ultimately reduce algae growth. After the Dredgesox breathable knitted material was anchored on the shore to define the shoreline using the patented subsurface anchoring system, the boat dredged shallow sediment from the lake and pumped it inside the Sox material envelope. As the shoreline Sox filled, the water seeped out and the sediment remained to form a hard compact. Other natural materials were added, such as soil, and that became the natural banks of the lake which were then planted with appropriate vegetation.



Shallow pond sediment is pumped with our amphibious work boat directly into the SOX containment system to restore the shoreline.

“I was impressed with how fast this project was completed and how reasonable the cost was,” says Nate. They restored the shoreline of the entire lake, about one thousand feet, in a week.” The shoreline is expected to last several decades.



The SOX “Living Shoreline” is sodded over and naturally integrates into existing shoreline. This creates a newly rooted safe, secure shoreline.

“We are stewards of our environment,” says Nate, “and I value the like-minded commitment to Best Management Practices used by the SOX company. Their hearts are truly in it.”

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THE RESULT:



“It’s been two years since this lake shore has been restored using Dredgesox and I couldn’t be more pleased with the outcome,” says Nate Watkins, Superintendent of Golf Course and Grounds at Seagate Golf and Country Club.

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