



# South Cove Natural Area

## A Lake Worth Lagoon Restoration Project

### Lake Worth Lagoon

- Largest estuary in Palm Beach County.
- 20 miles long, stretching from North Palm Beach to Ocean Ridge.
- Separated from the ocean by Singer Island and Palm Beach Island.
- Two permanent, man-made inlets.

### Project Location

- The project is located within the City of West Palm Beach, west of the Intracoastal Waterway and north of Royal Park Bridge, adjacent to Flagler Drive.

### The Problem

- Accumulated muck sediments within the dredged hole provides little habitat value.
- The muck sediments are easily resuspended causing increased turbidity in the Lagoon which impacts surrounding habitats.

### The Solution

- Cap the muck sediments with clean sand.
- Create mangrove, seagrass, and oyster habitat.

### Benefits

- Increased nursery areas and habitat for fisheries, benthic organisms, and wildlife.
- Improved water quality.
- Environmental education, recreation, and ecotourism.

### Artist's Rendering of South Cove Natural Area



Location: Downtown West Palm Beach

### Project Overview

- The South Cove Natural Area is designated as a high-priority restoration project in the Lake Worth Lagoon Management Plan.
- This project will create critical shallow water habitat important to local fisheries, wading and shorebirds, manatees, and sea turtles.
- Fill anoxic (lacking-oxygen) dredged hole with approximately 100,000 cubic yards of fill to create three intertidal mangrove/spartina islands.
- Improve water quality and water clarity by capping muck sediments.
- Create 2 acres of mangrove and spartina habitat, 3.5 acres of potential seagrass habitat, and 0.9 acres of rock revetment/oyster reef. These habitats provides filtration capabilities and improve water quality through stabilization of the sediments.
- Construct a 556-foot elevated boardwalk, 16' x 16' observation deck and educational kiosk for public use.



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