

Project GreenShores

➤ Project Overview

- **30 acres** of oyster, salt marsh, and seagrass habitat along 2 miles of urban waterfront in downtown Pensacola
- **Conceptualized in 1999** in conversations between FDEP and Gulf Power who donated \$100,000 to jumpstart the project
- Managed by **FL Dept Environmental Protection Northwest District Ecosystem Restoration Section**
- **Cost: ~\$6,000,000**: Funded by both cash and in-kind donations. Approximately **\$2,797,000 cash** and **\$2,828,043** through in-kind donations and material
- **Over 60 partners** including: City of Pensacola, Escambia County, Gulf Power, NOAA, EPA Gulf of Mexico Program, National Fish & Wildlife Foundation, US Fish and Wildlife Service, Florida Coastal Management Program, Ecosystem Restoration Support Organization, local businesses, citizens, school groups, scout groups including over 850 scouts donating over 2,500 hours

➤ Construction Details

- Oyster reefs constructed of **~41,000 tons** of various materials including recycled concrete from an old NAS runway, Kentucky limestone, fossilized shell and recycled oyster shell
- Salt marsh islands created from **51,000 cubic yards** of local dredge spoil from Escambia River and Bayou Texar dredging operations
- **90,000 total marsh plants** installed: 40,000 purchased from South Florida nursery for Site I (2003). FDEP Ecosystem Restoration Program nursery and volunteers grew 50,000 salt marsh plants for Site 2 (2007).
- **10,000 m²** seagrass coverage Site I (from planting of 50 m²) (~1 acre)
- Project has survived and offered protection to Bayfront Parkway and Downtown Pensacola through **Hurricanes Ivan** (Strong Cat 3-2004), **Dennis** (Cat 3-2005), and numerous tropical storms proving its utilization in coastal resiliency

➤ Awards, Recognition and Education

- National Resource Extension Professionals Outstanding Team Award-Living Shorelines Northwest Florida (2010)
- Francis M. Weston Audubon Conservation Award (2007)
- EPA Gulf Guardian Award (2005)
- Coastal America Partnership Award (2003)
- **Over 5,000** students and community members educated at Project GreenShores
- Designated by Audubon as a site on the **Great Florida Birding Trail**
- Featured as an **eco-tourism** destination by Visit Florida and the local tourism council
- **International delegate** volunteer site through partnership with Gulf Coast Citizen Diplomacy Council (25 participants to date from Russia, Kenya, Iceland, Israel, Nepal, Zimbabwe, Eritrea, Asia)
- Used as a wetland training site for EPA and has been visited by Philippine and Indonesian representatives looking for ways to stabilize their shorelines

➤ Wildlife and Recreation Opportunities

- 50-90% coverage of reefs by oysters
- Over 60 species of birds (migratory and residential populations)
- Grey snapper, sheepshead, redfish, mullet, flounder, speckled trout, blue crab, stone crab
- Geocache site with 265 local, national and international visitors since April 15, 2008
- Fishing
- Crabbing
- Kayak/canoeing
- Snorkeling, SCUBA
- Bird watching

Project GreenShores partners

A&K Toilet Rental	FDEP	The Nature Conservancy
Ability One Corp.	Fish America Foundation	Northwest Florida Water Management District
American Star	FL Dept of Transportation	One Stop Copy, Inc.
Andrew Diller	FL Dept. of Agriculture and Consumer Service	Oriole Beach Elementary School
Bagelheads	FL Fish and Wildlife Conservation Commission	Pace High School Anchor Club
Betsy Remington	Florida Association of Environmental Professionals	Patti's Shipyard
Blab TV	Florida Coastal Management Program	Peg Leg Pete's
Boat U.S. Marine Center	Florida Sea Grant	Pensacola Civitan Club
Boy Scout Troops #433, 11, 608 & 417	Francis M. Weston Audubon Society	Pensacola Fishing Bridge
Chris Verlinde	Girl Scout Troop #424	Pensacola Gulf Coastkeepers
City of Pensacola	Glenn Griffith	Pensacola Photo Supply, Inc.
Clark Site Contractors, Inc.	Gulf of Mexico Foundation	Project GreenShores Steering Committee and Design Focus Team
Clean and Green	Gulf Power Company / Southern Company	Richol Construction Services
Coastal America Program	Hatch Mott MacDonald	Robert Turpin
Coastal Conservation Association	Hawkshaw Lagoon Missing Children Memorial, Inc	Santa Rosa County
Coastal Restoration, Inc.	Honorable Holly Benson	Santa Rosa Recyclers
Coca-Cola	Jan Duncan	Scuba Shack
Cox Communications	Jenkins Brick Co.	Soule Marine
Craig Vigodsky	Landry's	Stewart C. Irby Co.
Cub Scout Pack #5	Levin - Papantonio Law Firm	University of Florida IFAS and Florida Sea Grant
Dr. William Fisher	Levin & Papantonio Family Foundation	University of West Florida
EcoGroup International	Marina Management Corporation	University of West Florida Environmental Club
Ecosystem Restoration Support Organization, Inc	Marina Oyster Barn	University of West Florida SCUBA Club
Emerald Ocean Engineering	Marks Foundation	US Fish & Wildlife Service
Emerald Ocean Engineering	Martin Marietta Aggregates	US Marine Corp
Enterprise Florida, Inc.	Muscogee Wharf	Victoria K. Butts, CPA
Environmental Protection Agency	NAS Pensacola	Washington High School Marine Science Program
EPA Gulf of Mexico Program	National Fish & Wildlife Foundation	West Florida Canoe Club
Escambia County	National Oceanic & Atmospheric Administration	
EW Bullock Associates	Native Plant Society-Longleaf Pine Chapter	