



**Coastal Protection and  
Restoration Authority of Louisiana**

# **New Orleans Region Construction Projects**

**John Troutman/Peter Hopkins  
CPRA Operations Division  
June 15, 2016**



# Regional Restoration Summary

Project ID	Project Name	Status	Est. Cost
PO-0142	Hydrologic Restoration of the Amite River Diversion Canal	Bids opened 6/13/16	\$3.59 M
PO-0104	Bayou Bonfouca Marsh Creation Project	Bids opened 6/07/16	\$29.27 M
BA-0027-C	Barataria Basin Landbridge Shoreline Protection, Phase 3	Under Construction	\$26.35 M
BA-0043-EB	Mississippi River Long Distance Sediment Pipeline	Under Construction	\$66.31 M
BA-0048	Bayou Dupont Marsh and Ridge Creation	Under Construction	\$38.24 M
BA-0111	Shell Island West - NRDA	Under Construction	\$101.31 M
BA-0164	Bayou Dupont Phase 3	Under Construction	\$18.73 M
BS-0016	South Lake Lery Shoreline and Marsh Restoration	Under Construction	\$33.72 M
PO-0148	Living Shoreline	Under Construction	\$15.29 M
BA-0042	Lake Hermitage Marsh Creation	Recently Completed	\$44.05 M
BA-0068	Grand Liard Marsh and Ridge Restoration	Recently Completed	\$42.8 M
PO-0043	East Labranche Shoreline Protection	Recently Completed	\$3.75 M
			<b>\$435.91 M</b>



**Hydrologic Restoration of the Amite River Diversion Canal (PO-0142)**

**East Labranche Shoreline Protection (PO-0043)**

**Bayou Bonfouca Marsh Creation (PO-0104)**

**Central Wetlands Demonstration Expansion (PO-0073-3)**

**Central Wetlands Demonstration (PO-0073)**

**Central Wetlands EBSTP to A2 (PO-0073-2)**

**Living Shoreline (PO-0148)**

**South Lake Lery Shoreline and Marsh Restoration (BS-0016)**

**MR Long Distance Sediment Pipeline (BA-0043-EB)**

**Bayou Dupont Marsh and Ridge Creation (BA-0048)**

**Barataria Basin Landbridge Shoreline Protection, Phase 3 (BA-0027-C)**

**Lake Hermitage Marsh Creation (BA-0042)**

**Shell West - NRDA (BA-0111)**

**Grand Liard Marsh and Ridge Restoration (BA-0068)**

**Primary Program**

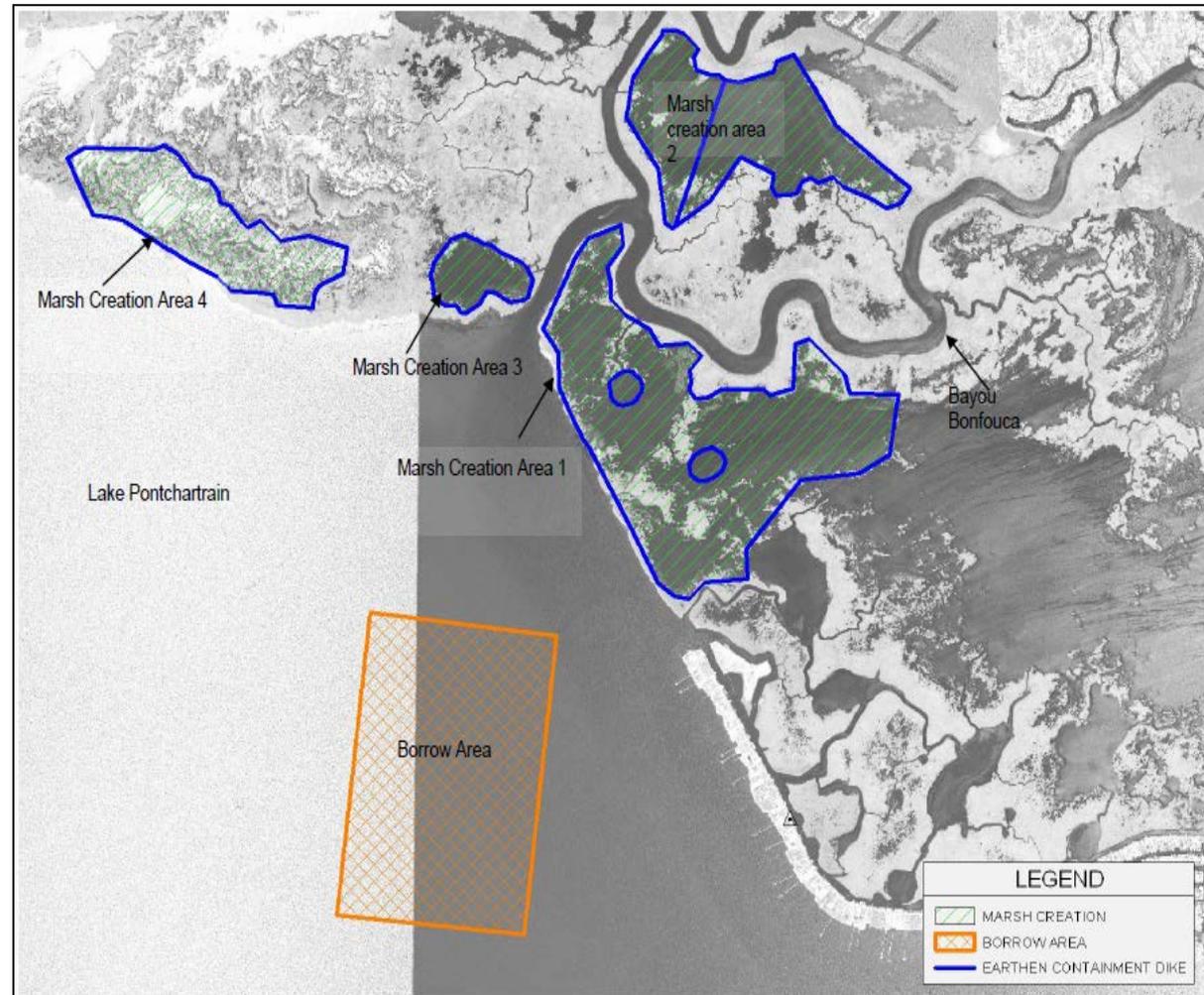
- CIAP
- CWPRA
- NRDA
- STATE



# Bayou Bonfouca Marsh Creation (PO-104)

## Project Features

- 620 acres of marsh creation along the lake rim and interior
- Funding Programs: CWPPRA & CIAP
- Cost: \$29.9 Million
- Status: Bid advertisement within 30 days



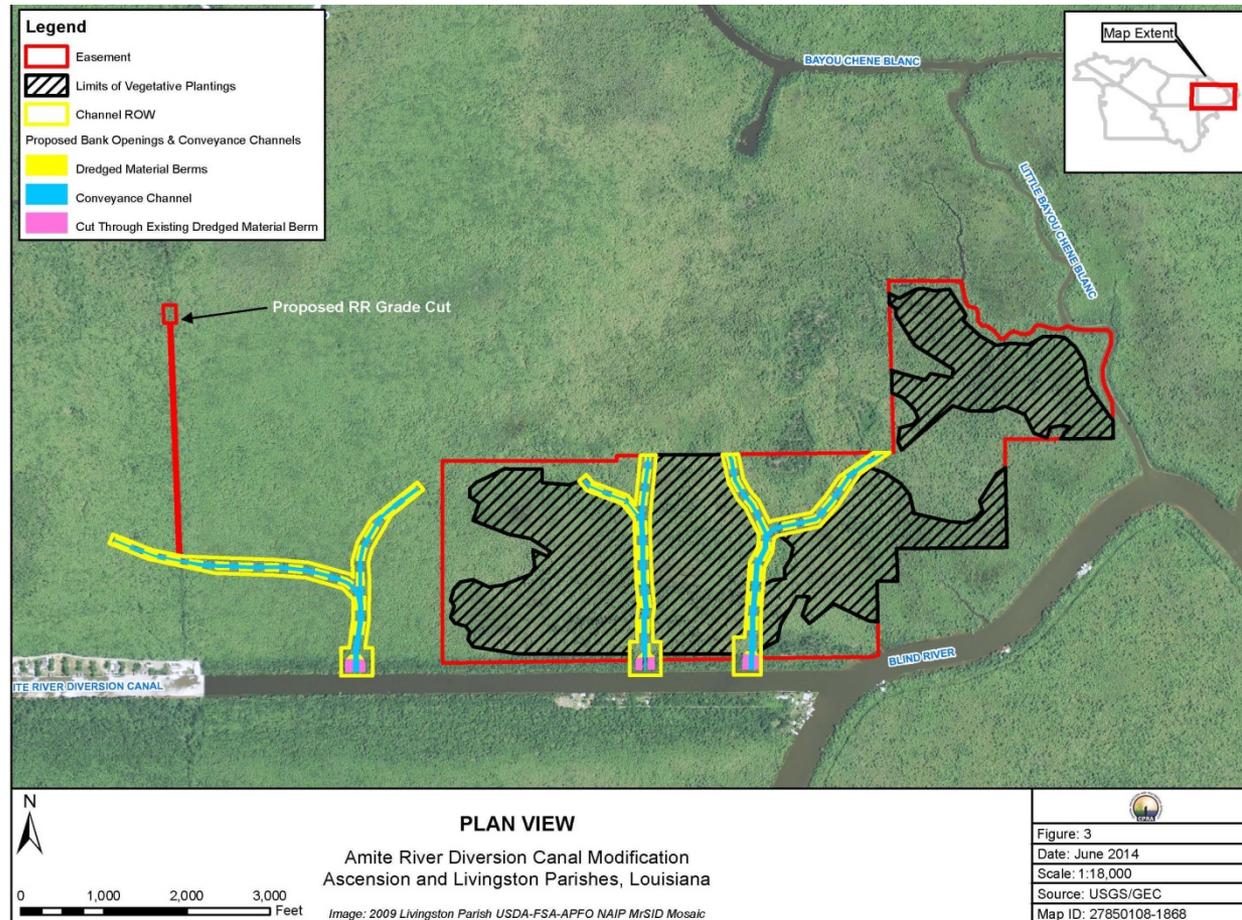
# Hydrologic Restoration of the Amite River Diversion Canal (PO-142)

## ➤ Project Features:

- cut gaps in the canal's northern spoil bank
- dig three creeks 2,750 feet into swamp
- cut gaps in old railroad grade
- plant cypress and tupelo

➤ State: MOEX - \$3.5 million

➤ **To be bid soon**

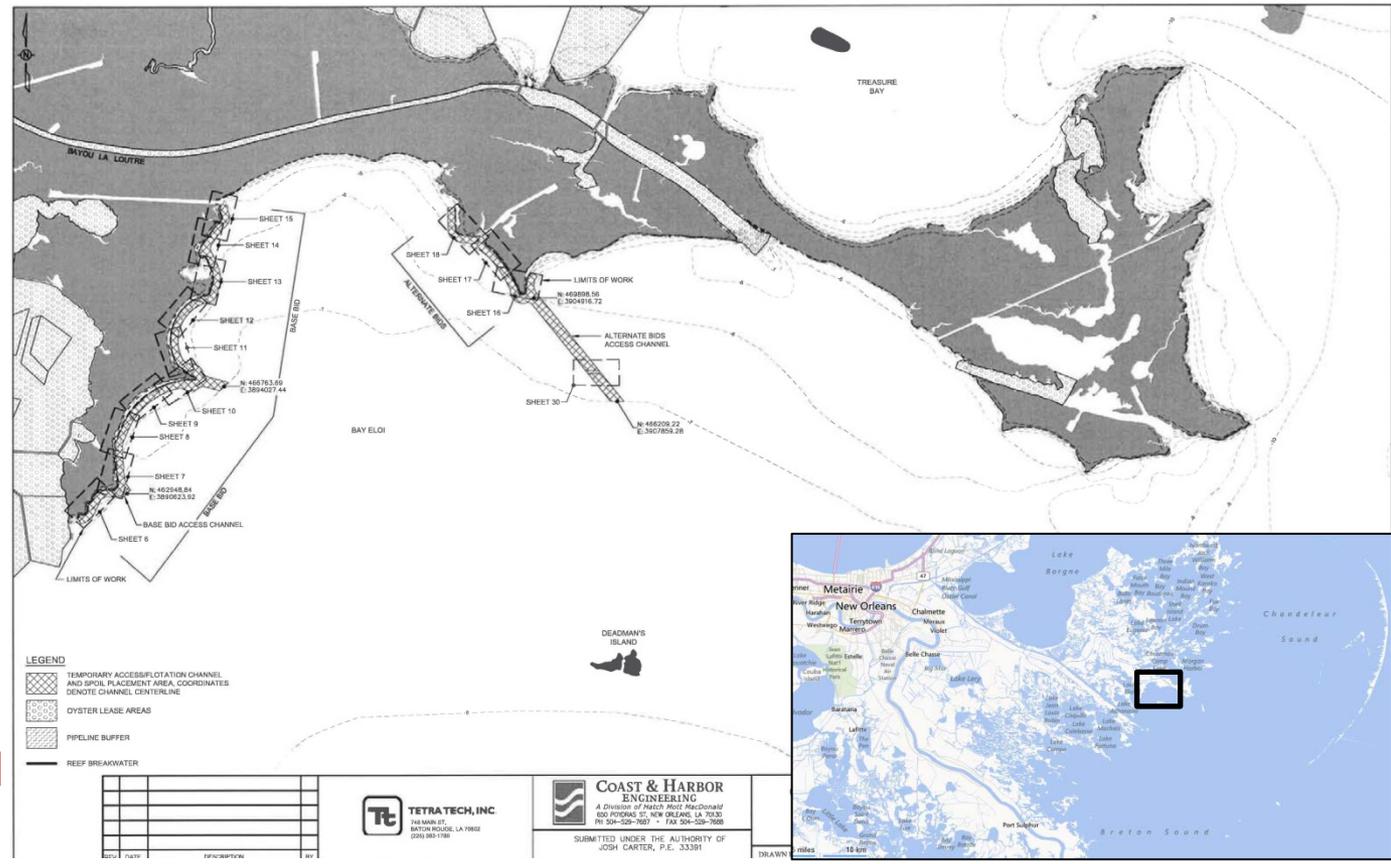




# Living Shoreline Demo Project (PO-148)

## Project Features

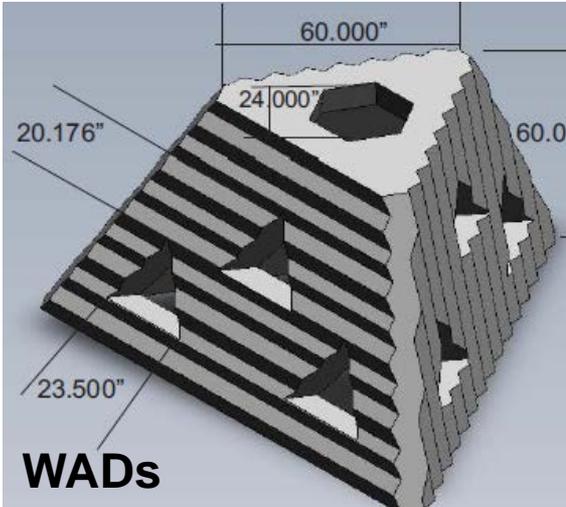
- 2.9 miles shoreline protection
- Four products:
  - Reefballs
  - Oysterbreak
  - Wave Attenuator
  - Reefblk (in gaps)
- \$15.29 M
- Under Construction
- Field placement April 2016



# Demo Project Reef Products



Reef ball



WADs



Reefblk

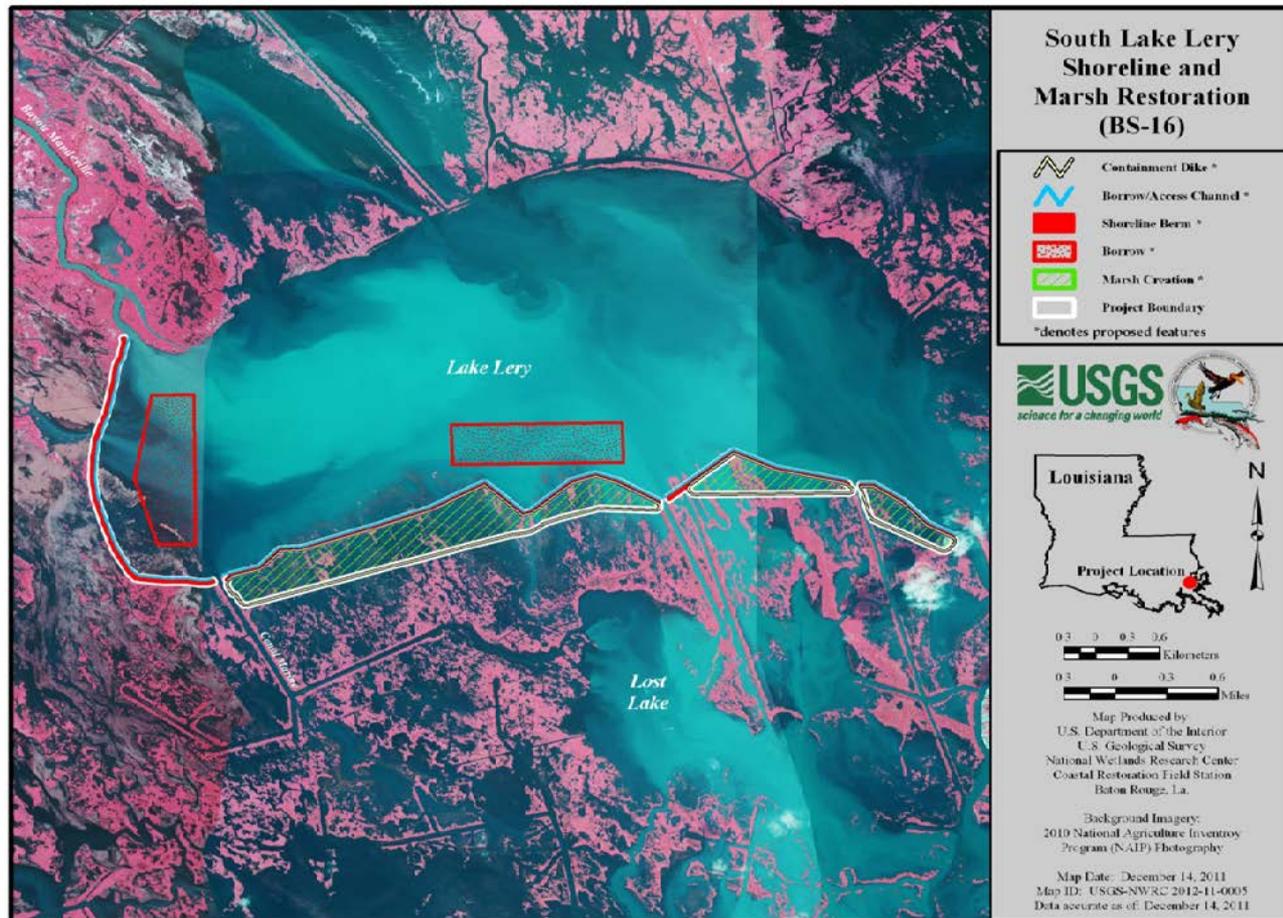


Oysterbreak

# South Lake Lery Shoreline and Marsh Creation (BS-16)

## Project Features

- 520 acres of marsh creation
- 35,831 ft. (6.8 miles) of shoreline restoration
- Lake rim:
  - 50' crown width
  - 3' NAVD elevation
  - Vegetation planting
- \$33.72M
- **Under Construction**

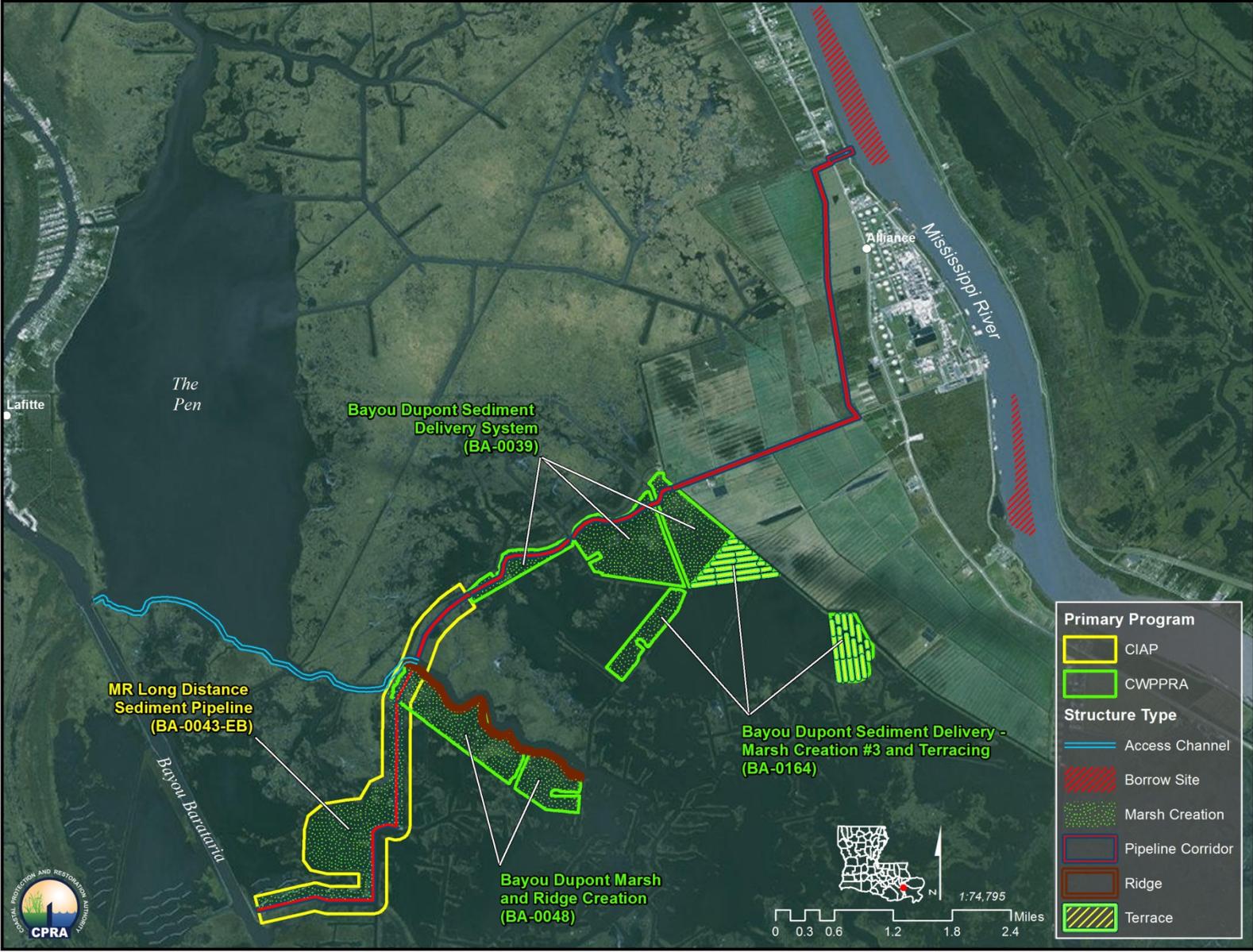




# Long Distance Sediment Pipeline +

Project	Funding Source	Cost	Volume of Fill (Cubic Yards)	Acres
Bayou Dupont Marsh and Ridge Restoration (BA-48)	CWPPRA	\$38.2 M	2,710,422 cy	360
Bayou Dupont Sediment Delivery Marsh Creation #3 (BA-164)	CWPPRA	\$18.7 M	1,107,855 cy	124
Long Distance Sediment Pipeline (BA-43EB)	CIAP/State Surplus	\$66.3 M	4,330,524 cy	555
TOTAL		\$123.2 M	8,148,801 cy	1,039

# Long Distance Sediment Pipeline +



# Long Distance Sediment Pipeline (BA-43)

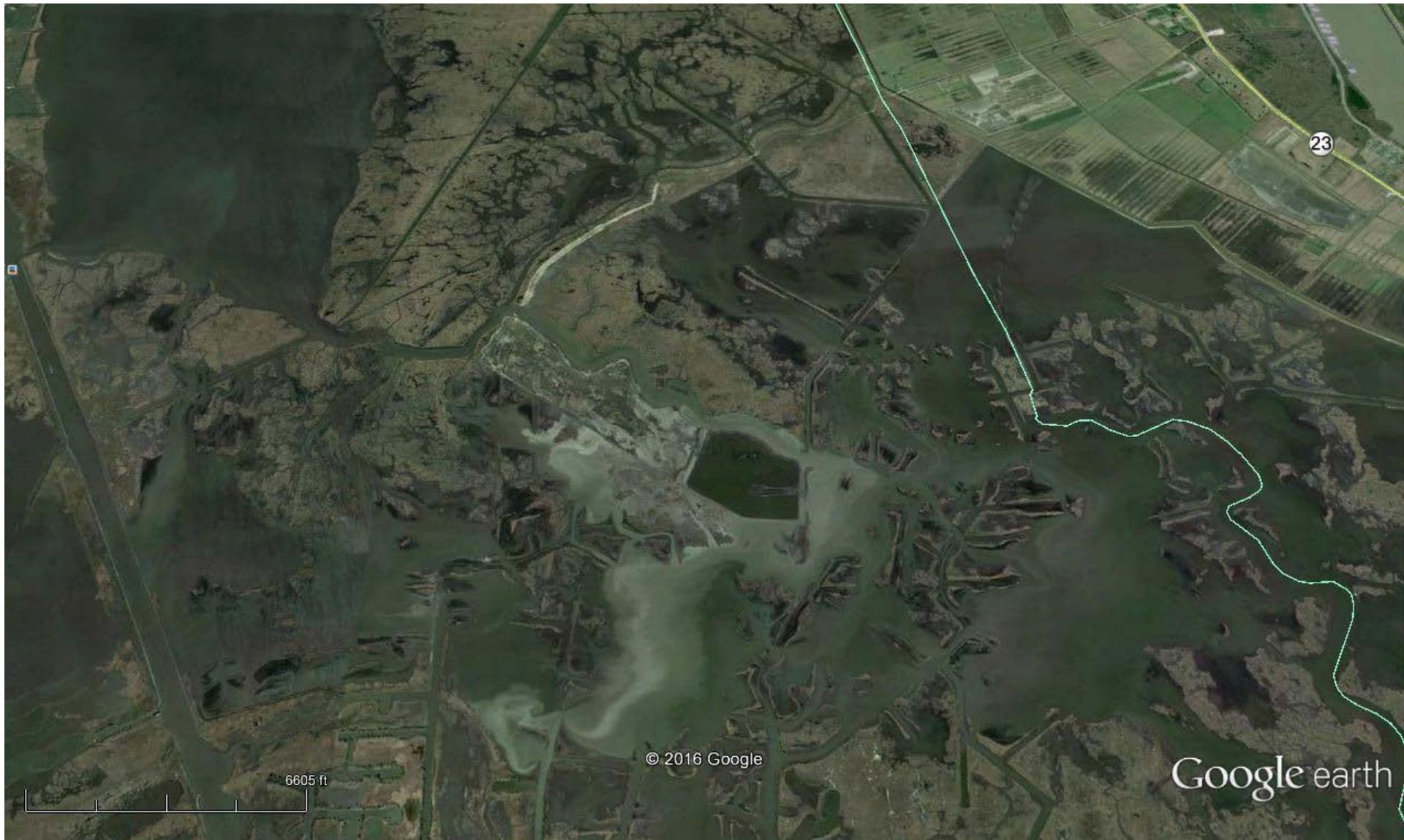
- Pipeline corridor (12 miles) from MR to the Barataria Waterway
- Infrastructure under highway and multiple canal crossings, including one really nice bridge
- Corridor supports existing and future projects
- \$66.31M
- Active construction complete

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A SDAV owned small business.





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23

6605 ft

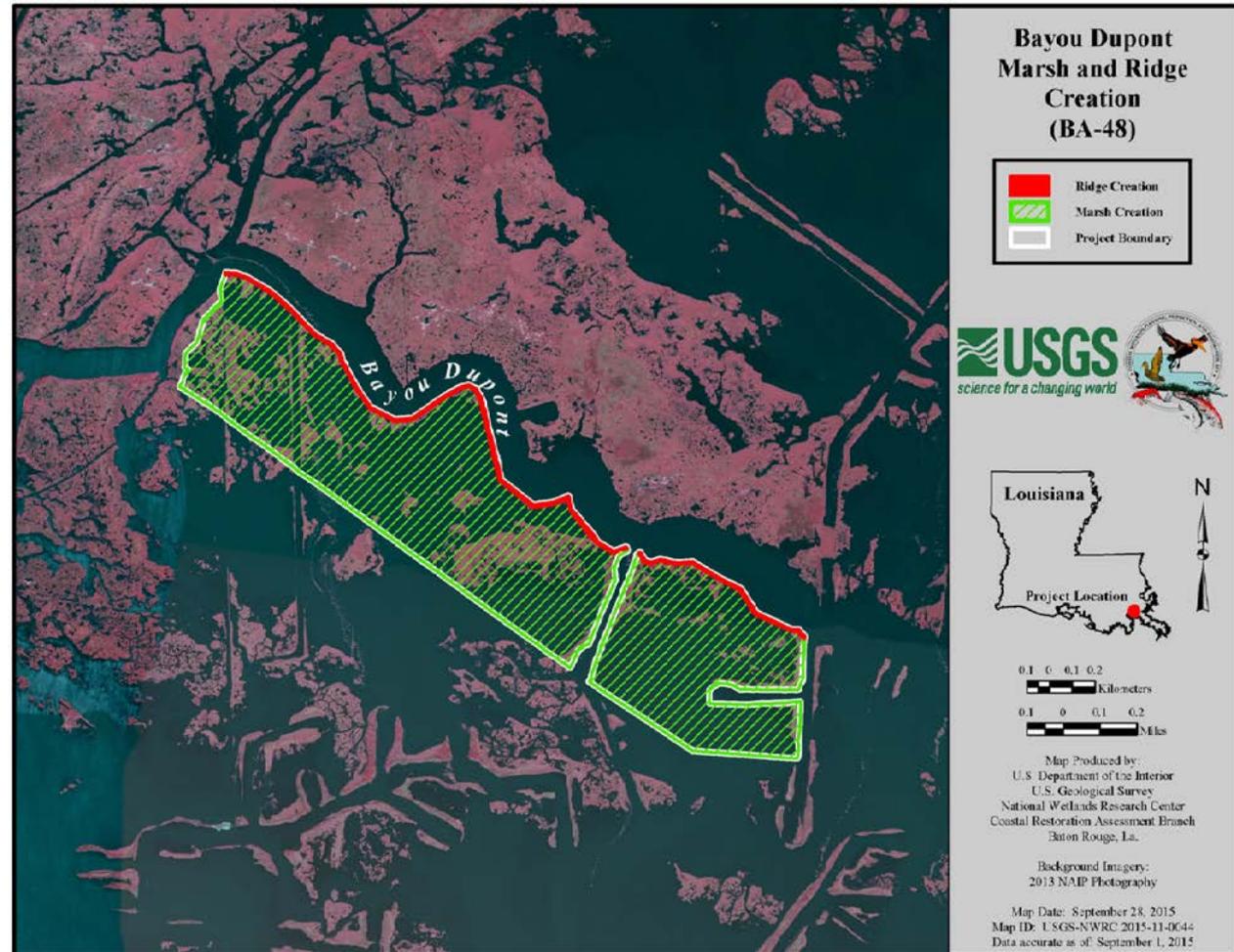
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Google earth

# Bayou Dupont Marsh and Ridge Creation (BA-48)

## Project Features

- 360 acres of marsh
- 2 mile long ridge (4.5 ft NAVD) along bayou
- vegetation planting
- \$38.24M
- Active construction complete
- Veg planting 2018 (O&M phase)





**BA-43**

**BA-48**

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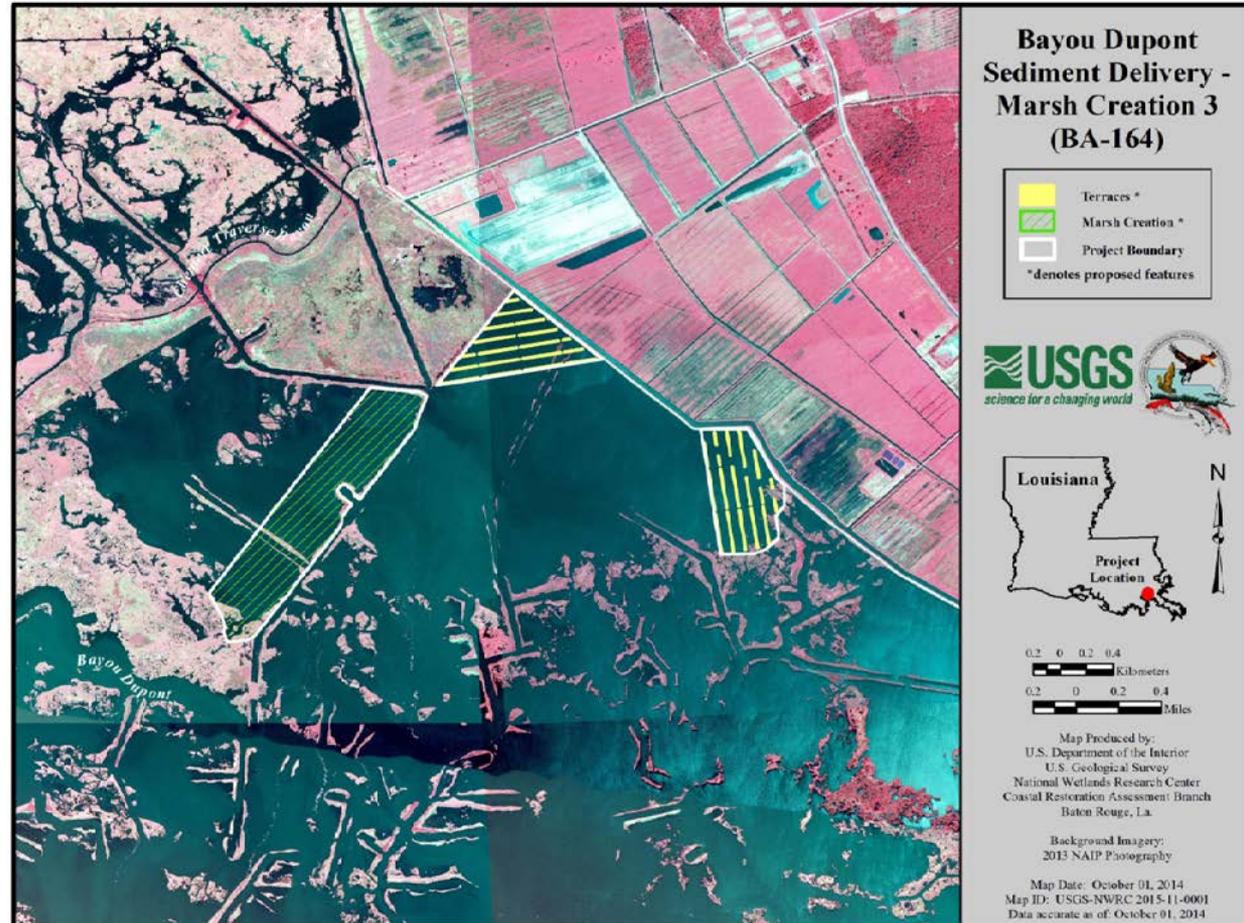


**BA-43**

# Bayou Dupont Marsh Creation – Phase 3 (BA-164)

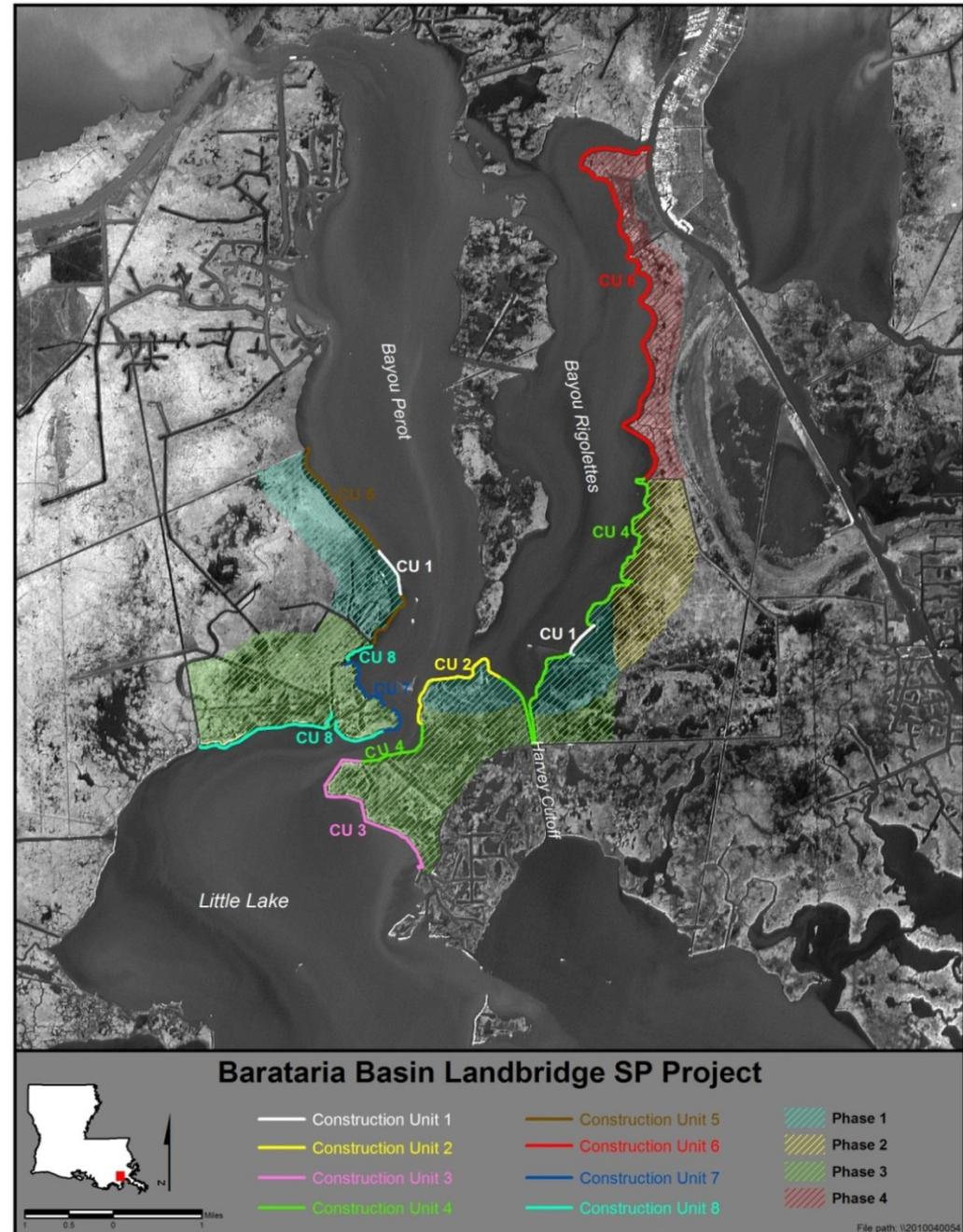
## Project Features

- 415 acres of marsh and terraces
- \$18.73M
- **Status: Under Construction**



# Barataria Basin Landbridge Shoreline Protection (BA-27) *All Phases*

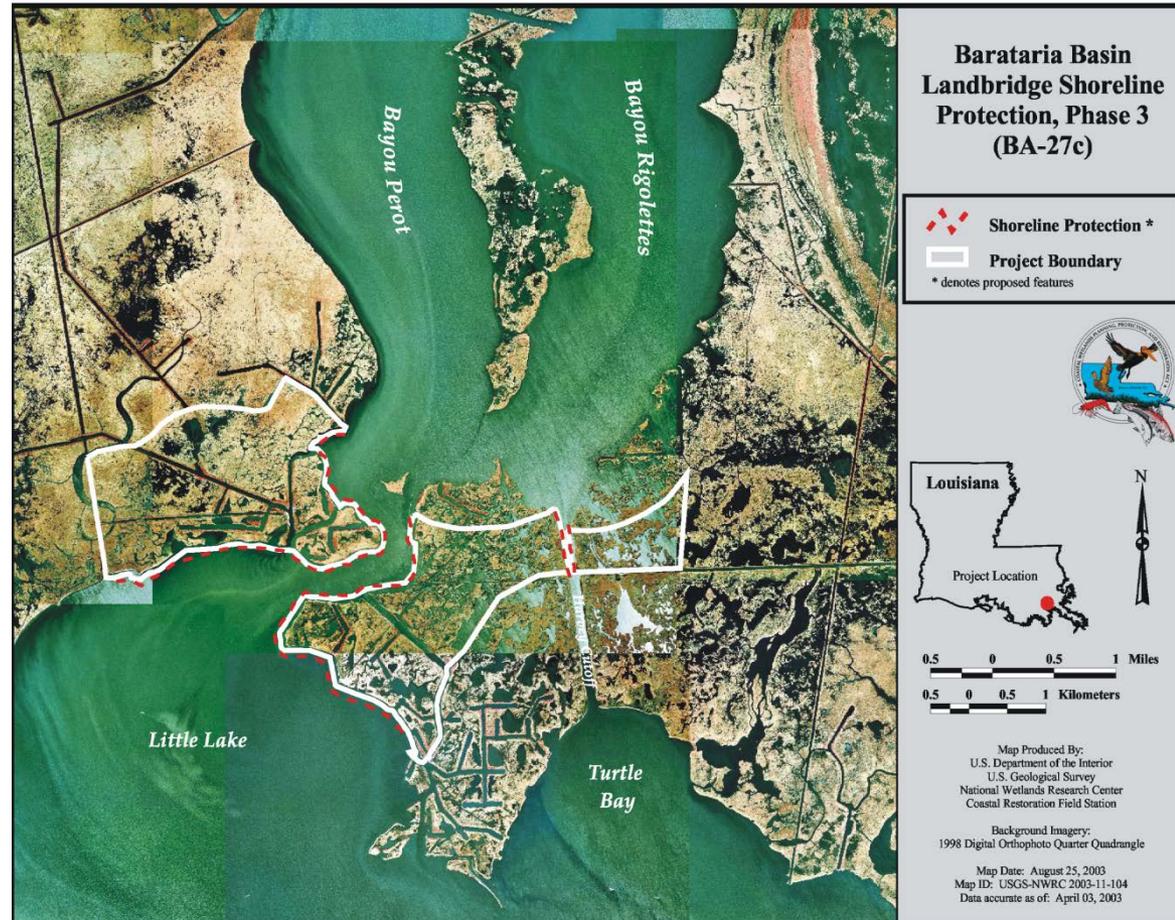
- 10 years construction  
3 phases, 8 CUs
- Linear Feet = 117,268  
(22 miles)



# Barataria Basin Landbridge SP, Phase 3 (BA-27c)

## Project Features:

- CUs 7 & 8
- 21,126 linear feet (4 miles) Shoreline Protection:
  - 2,743 ft. offshore rock dike
  - 18,383 ft. revetment
- \$26.35M
- **In Construction**



# Shell Island – West Barrier Island Restoration (BA-111)

- Project Features: Dune and back barrier marsh creation
- Borrow from MR for dune (sand) and offshore for marsh platform (fines)
- Funding Program: NRDA Early Restoration (Outer Coast Restoration Project)
- \$101.31M
- Under Construction

2013



# Shell Island East (BA-0110) and Shell Island West (BA-0111)

Bastian Bay

BA-0111  
(Western Lobe)

BA-0111  
(Eastern Lobe)

Gulf of Mexico

BA-0110



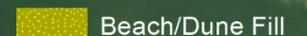
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## BA-0110 (Constructed Features)

-  Containment Dike
-  Beach/Dune Fill
-  Marsh Creation

## BA-0111 (Designed Features)

-  Containment Dike
-  Beach/Dune Fill
-  Marsh Creation

-  Sand Flat



Map Date: June 17, 2015  
Imagery: ESRI World

# Questions?



RIGOLETS LIGHTHOUSE 2004