January 2022
Cost figures as of: February 2023

Grand Bayou Ridge and Marsh Restoration (BA-217)

Project Status

Approved Date: 2019 **Project Area:** 258 acres
Approved Funds: $3.46 M **Total Est. Cost:** $41.7 M
Net Benefit After 20 Years: 225 acres
Status: Engineering and Design
Project Type: Marsh Creation
PPL #: 28

Location

Region 2, Barataria Basin, Plaquemines Parish

Problems

Within the Lake Hermitage basin, between Bayou Grande Cheniere and the Mississippi River, significant marsh loss has occured with the construction of oil/gas canals, subsidence, and sediment deprivation. From examaniation of aerial photography, the majority of this loss occurred during the 1960s and 1970s when numerous oil/gas canals were dredged in the area. Based on a land loss analysis conducted by USGS, the loss rate in the project area was -0.93% per year for the period 1984-2020.

Restoration Strategy

The primary goals of this project are; 1) restore marsh habitat in the open water areas via marsh creation and terracing and 2) restore forested ridge habitat along Grand Bayou.

Sediment from the Mississippi River will be hydraulically dredged and pumped via pipeline to create/nourish approximately 3 acres of marsh.
Approximately 9,385 linear feet (10 acres) of forested ridges will be created along the western bank of Grand Bayou. The ridge will be planted on the crown and slopes.

Like other marsh creation projects in the area, sediment from the Mississippi River will be used to create a marsh platform.

Progress to Date

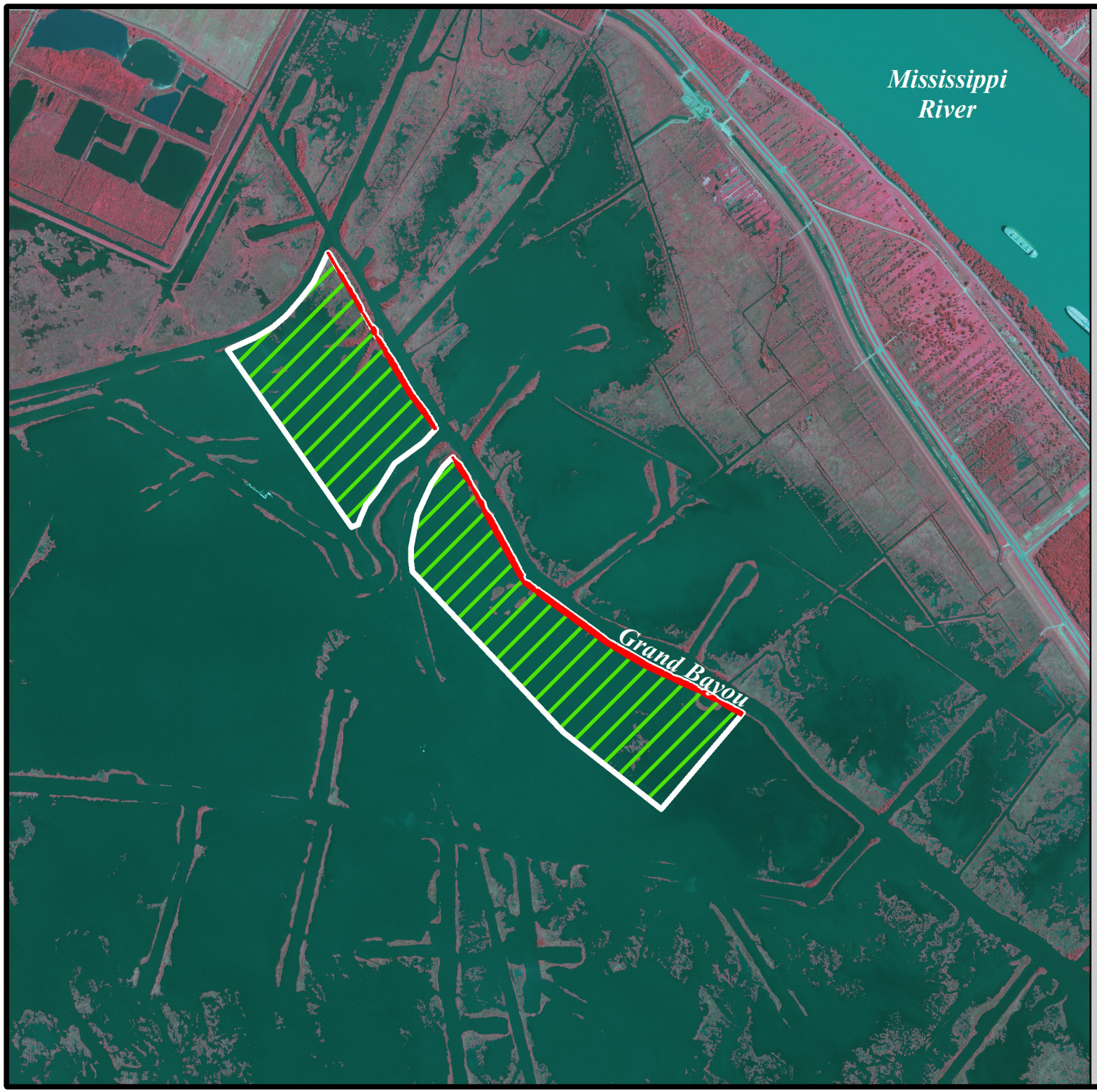
This project was approved for Phase I Engineering and Design in February 2019.

This project is on Priority Project List 28.

For more information, please contact:

Federal Sponsor:
U.S. Fish and Wildlife Service
Lafayette, LA
(337) 291-3100

Local Sponsor:
Coastal Protection and Restoration Authority
Baton Rouge, LA
(225) 342-4733



Grand Bayou Ridge and Marsh Restoration (BA-217)

Ridge Restoration *

Marsh Creation *

Project Boundary *

*denotes proposed features

USGS
science for a changing world

N

0.2 0 0.2 0.4 Kilometers

0.2 0 0.2 0.4 Miles

Map Produced by:
U.S. Department of the Interior
U.S. Geological Survey
Wetland and Aquatic Research Center
Coastal Restoration Assessment Branch
Baton Rouge, La.

Background Imagery:
2019 NAIP Photography

Map Date: September 16, 2021
Map ID: USGS-NWRC 2021-11-0030
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