November 2018
Cost figures as of: February 2023

Caminada Headland Back Barrier Marsh Creation, Increment 2 (BA-193)

Project Status

Approved Date: 2016 **Project Area:** 444 acres
Approved Funds: $1.03 M **Total Est. Cost**: $1.03 M
Net Benefit After 20 Years: 207 acres
Status: Deauthorized
Project Type: Marsh Creation
PPL #: 25

Location

The Caminada Headland is defined as the area south of Louisiana Highway 1 between Belle Pass and Caminada Pass. The Project is located directly behind Caminada headland beach east of Bayou Moreau and west of Elmer's Island. The Project is located in CWPPRA Planning Region 2, Barataria Basin, in Lafourche and Jefferson Parishes.

Problems

The Project is located in an especially dynamic area of the Louisiana Coast, experiencing some of the highest shoreline retreat rates in Louisiana averaging 41.4 feet/year over the last century. Between 2006 and 2011 shoreline migration increased dramatically, exceeding 80 ft/yr near Bay Champagne and 110 ft/yr near Bayou Moreau. The increased losses occurred after Hurricanes Katrina and Rita in 2005 as the breaches remained open for an extended length of time which were then exacerbated by Tropical Storm Fay and Hurricanes Gustav and Ike in 2008. The prolonged breaches greatly increased the net export of sediment from the headland.

Dredged material from the Gulf of Mexico will be pumped into open-water areas which will create 250 acres of back barrier marsh and nourish 293 acres of emergent marsh behind 4 miles of the Caminada Beach.

Restoration Strategy

The goals of this project are to: 1) Create and/or nourish 543 acres of emergent back barrier marsh, by pumping sediment from an offshore borrow site; 2) Create a platform upon which the beach and dune can migrate, reducing the likelihood of breaching, increasing the retention of overwashed sediment, improving the longevity of the barrier shoreline, and protecting wetlands and infrastructure to the north and west. The marsh creation and nourishment cells are designed to minimize impacts on existing marsh and mangroves. Assuming some natural recruitment, vegetative plantings are planned for 50% of the project area, with half planted at TY3 and half at TY5 (if needed). Containment dikes will be degraded or gapped by TY3 for estuarine organism access. The project would result in approximately 160 net acres over the 20-year project life and would work synergistically with Caminada Headland Beach and Dune Restoration Projects (BA-45 and BA-143), as well as Caminada Headland Back Barrier Marsh Creation Project (BA-171).

Progress to Date

The 30% design review and 95% design review meetings were held on July 10, 2018 and October 25, 2018, respectively. The Phase II Request for construction funding was presented to the CWPPRA Tech Committee on December 6, 2018. The BA-193 project area was combined with BA-171, hence, this project number is being deauthorized. Costs and benefits are now assigned to BA-171.

This project is on Priority Project List (PPL) 25.

For more information, please contact:

Federal Sponsor:
U.S. Environmental Protection Agency
Dallas, TX
(214) 665-7506

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

Caminada Headlands Back Barrier Marsh Creation, Increment II (BA-193)

- Project Boundary (BA-193)
- Marsh Creation (BA-193)
- Dewatering/Marsh Nourishment Area (BA-193)
- Back Barrier Marsh Creation (BA-171)
- Beach & Dune Restoration (BA-45 & BA-143)

USGS
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0.75 0 0.75 1.5 Kilometers

0.75 0 0.75 1.5 Miles

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

Background Imagery:
2017 NAIP Photography

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