



Coastal Protection and Restoration Authority



Terrebonne Parish Coastal Projects

PROJECTS IN CONSTRUCTION

[Morganza to the Gulf \(TE-0064\)](#)

STATE - Estimated Cost \$177,003,835

This project is designed to provide 100-year protection levels along the federally authorized Morganza to the Gulf alignment in Terrebonne and parts of Lafourche parishes. The project consists of the construction of earthen levees and t-walls, navigation structures, water control structures, and floodgates.

[Terrebonne Basin Barrier Island and Beach Nourishment \(TE-0143\)](#)

NFWF - Estimated Cost \$150,000,000

The Project Area includes restoration areas on Trinity-East Island, Timbalier Island and West Belle Headland, three (3) sand borrow areas located in federal waters (commonly known as Ship Shoal) approximately 14 miles southwest of Timbalier Island, and one (1) mixed sediment borrow area located in State waters approximately 3.5 miles south of West Belle Headland. The project areas also includes conveyance corridors connecting borrow areas to the restoration areas.

PROJECTS IN ENGINEERING AND DESIGN

[Increase Atchafalaya Flow to Terrebonne \(TE-0110\)](#)

NFWF - Estimated Cost \$415,215,000

The purpose of the project is to utilize freshwater and sediment from the Atchafalaya River in order to build, sustain, and maintain wetlands within the Terrebonne Basin. The project intends to dredge the GIWW east of the Atchafalaya and install a bypass structure at Bayou Boeuf Lock to increase freshwater and sediment flows from Atchafalaya River to Terrebonne marshes in St. Mary and Terrebonne parishes.

[Island Road Marsh Creation & Nourishment \(TE-0117\)](#)

CWPPRA - Estimated Cost \$40,435,267

This project involves the creation of 364 acres and nourishment of 19 acres of saline marsh adjacent to Island Road in Terrebonne Parish using sediment dredged from Lake Tambour. Half of the newly constructed marsh (182 acres) will be planted following construction to stabilize the platform and reduce time for full vegetation.

[Bayou Decade Ridge Restoration and Marsh Creation \(TE-0138\)](#)

CWPPRA - Estimated Cost \$34,400,000

The proposed project's primary feature is to restore 11,726 feet of Bayou DeCade northern ridge, create approximately 398 acres, and nourish approximately 107 acres of intermediate marsh adjacent to Lake DeCade in Terrebonne Parish using sediment dredged from Lake DeCade. The ridge will be constructed to a crown elevation of +5.0 feet NAVD88, 15 feet wide, and will be planted on the crown and slopes.

Terrebonne Basin Ridge and Marsh Creation - Bayou Terrebonne Increment (TE-0139)

NRDA - Estimated Cost \$126,000,000

The Bayou Terrebonne Increment of the Terrebonne Basin Ridge and Marsh Creation Project is located along the east bank of Bayou Terrebonne in western Terrebonne Parish and involves the creation of 126 acres of ridge using sediment dredged from Bayou Terrebonne and 1,370 acres of marsh using sediment dredged from Terrebonne Bay. This increment is part of large-scale restoration strategy for the Terrebonne Basin that will rebuild ridge and intertidal marsh habitat that has degraded due, in part, to the DWH oil spill.

PROJECTS IN HEADED TO BID**Houma Navigation Canal Lock Complex (TE-0113)**

RESTORE - Total Cost \$357,784,732

This project is a part of the Morganza to the Gulf of Mexico Hurricane Protection Project (TE-0064). The structure will provide storm surge protection, increase freshwater distribution, and provide navigation along the Houma Navigation Canal in Terrebonne Parish.

Island Road Fishing Piers (TE-0144)

NRDA - Total Cost \$3,000,000

This project involves the construction of five small parking lots, or vehicle pull overs, with adjoining fishing piers along Island Road in the Pointe-aux-Chenes Wildlife Management Area in Terrebonne Parish.

Pointe-Aux-Chene WMA Enhancement (TE-0146)

NRDA - Total Cost \$5,000,000

The project is proposing to develop four recreational enhancements within the Pointe aux Chenes Wildlife Management Area. These enhancements include pirogue pullovers, pirogue launch, fishing piers, and Island Road boat launch renovation.

Lacache Pump Station (TE-0153)

STATE - Total Cost \$2,000,000

No Data in GeoDB**COMPLETED PROJECTS*****Projects Completed in 2018*****Falgout Canal Road Levee (TE-0063)**

CDBG - Total Cost \$24,803,191

This project will replace, modify or repair 6 existing water control structures, dredge 33,000 feet of interior channels, and construct 2 new structures to allow freshwater to flow under the existing roadway and proposed levee. The goal of the project is to restore project-area salinities to levels that are favorable for fresh and intermediate marshes and to improve the efficiency of freshwater flow within the basin area by reestablishing the historical north-south flow.

Lost Lake Marsh Creation and Hydrologic Restoration (TE-0072)

CWPPRA - Total Cost \$37,119,324 / State Dollars \$5,194,009

This project involves the creation of approximately 465 acres of marsh along the north and west shorelines of Lost Lake in Terrebonne Parish using sediment dredged from Lost Lake. Other project features include 30,000 linear feet (22 acres) of earthen terraces north of Bayou DeCade and the installation of four variable-crest weirs along Carencro Bayou and Rice Bayou to restore the hydrology within the western marsh creation cell.

[NRDA Caillou Lake Headlands \(TE-0100\)](#)

NRDA - Total Cost \$118,340,766 / State Dollars \$118,340,766

This project aims to restore the Whiskey Island Barrier Island in order to retain its geomorphologic form and ecologic function. It will create 170 acres of marsh habitat and 917 acres of dune and beach habitat.

[HNC Deepening Section 203 Study \(TE-0108\)](#)

STATE - Total Cost \$686,725 / State Dollars \$686,725

DOTD study with the USACE to deepen the Houma Navigation Canal.

Projects Completed in 2016**[Breach Management Plan \(BA-0170\)](#)**

STATE - Total Cost \$471,340 / State Dollars \$471,340

This project will provide CPRA's Engineering Division and Project Management Division with a system-wide program for handling breaching that occurs within the barrier island and headland system of the Louisiana coastline. The project will extend eastward from Racoon Island to Scofield Island within the Terrebonne and Barataria Basins. The project will include development of identification, classification, and prioritization methodologies with recommendations for breach prevention and response measures. The project goals are to reverse landloss, increase sustainability of restoration projects, reduce operations and maintenance costs, and improve ecosystems.

Projects Completed in 2015**[CIAP Performance Evaluation Borrow Area Management and Monitoring \(LA-0012-7\)](#)**

CIAP - Total Cost \$813,512 / State Dollars \$813,512

Borrow Area Monitoring and Management (BAMM) was initiated to understand the evolution of borrow pits for restoration projects (inshore, nearshore, and offshore) over time, with a particular focus on the infilling (rates and types of sediment) and gradient of the pit-slopes as well as potential dredge impacts. The study involves the collection of geophysical, geotechnical and water quality data from several borrow areas to understand not only the above objectives but also the hypoxic conditions vis-à-vis depth of cut of borrow area.

Projects Completed in 2014**[GIWW Bank Restoration of Critical Areas in Terrebonne \(TE-0043\)](#)**

CWPPRA - Total Cost \$13,022,245 / State Dollars \$1,953,337

This project will construct 10,584 feet of rock dike shoreline protection to protect a segment of deteriorated bank along the GIWW in Terrebonne Parish. The objective of this project is to protect critically eroding portions of the southern bank of the Gulf Intracoastal Waterway (GIWW) to protect the adjacent fragile interior marshes.

Projects Completed in 2013**[Raccoon Island Shoreline Protection/Marsh Creation \(TE-0048\)](#)**

CWPPRA - Total Cost \$21,364,793 / State Dollars \$3,017,219

The purpose of this project is to protect the existing southern shoreline of the island by constructing eight more rock breakwaters. Phase B will utilize dredged sediment from the Gulf of Mexico to create marsh on the land side of the island.

Projects Completed in 2011

Penchant Basin Natural Resources Plan, Increment 1 (TE-0034)

CWPPRA - Total Cost \$18,878,814 / State Dollars \$2,037,511

The objective of the project was to divert freshwater flow from north-western to south-eastern sub project areas coupled with protection measures to reduce inundation of fragile marsh areas in overall Penchant Basin in Terrebonne Parish.

South Lake Decade Freshwater Introduction (TE-0039)

CWPPRA - Total Cost \$6,473,826 / State Dollars \$783,574

This project included the construction of a water control structure in the southern bank of Lake DeCade. This will increase the amount of Atchafalaya River water and sediment introduced into the marshes south of the lake. In addition, shoreline protection was implemented adjacent to the proposed structure, and a weir in Lapeyrouse Bayou was removed.

GIWW Bank Restoration (CIAP) of Critical Areas of Terrebonne (TE-0043-EB)

CIAP - Total Cost \$7,274,676

The project objective was to restore critical lengths of deteriorated channel banks along the Gulf Intracoastal Waterway (GIWW) in Terrebonne Parish and stabilize/armor selected critical lengths of deteriorated channel banks with hard shoreline stabilization materials. A portion of this project was constructed using CIAP 2007 funds and the remainder of the project received Phase 2 funding through CWPPRA.

Enhancement of Barrier Island Vegetation Demonstration (TE-0053)

CWPPRA - Total Cost \$2,169,264 / State Dollars \$137,890

The goal of this project was to test several technologies or products to enhance the establishment and growth of key barrier island and salt marsh vegetation. The project focused specifically on enhancing the establishment and growth of transplants of both dune vegetation [bitter panicum (*Panicum amarum*) and sea oats (*Uniola paniculata*)] and marsh vegetation [smooth cordgrass (*Spartina alterniflora*) and black mangrove (*Avicennia germinans*)].

Lost Lake Vegetation (TE-0082)

FEDERAL - Total Cost \$161,000 / State Dollars \$161,000

This coastal vegetative planting project was for erosion control and habitat restoration in the Lost Lake area of southwestern Terrebonne Parish.

Projects Completed in 2010

Whiskey Island Back Barrier Marsh Creation (TE-0050)

CWPPRA - Total Cost \$26,831,855 / State Dollars \$3,837,278

The goal of this project was to recreate a back barrier marsh platform on which the barrier island can migrate in order to increase the longevity of the previously restored and natural portions of the island. Heavy construction was complete in the fall of 2009. Project features included construction of 316 acres of back barrier marsh, 5,800 linear feet of tidal creeks, three 1-acre tidal ponds, and 13,000 linear feet of sand dune on the gulf side beach shore.

Projects Completed in 2009

North Lake Mechant Landbridge Restoration (TE-0044)

CWPPRA - Total Cost \$40,254,428 / State Dollars \$34,147,189

The project helped to maintain and restore the landbridge (Lake Mechant north shoreline and the Small Bayou La Pointe Ridge) which provides a hydrologic barrier between brackish and low-salinity habitats. Project features included marsh creation, the planting of smooth cordgrass (*Spartina alterniflora*) on the shoreline, the construction of various plugs, and repairing a fixed-crest weir along Bayou Raccourci.

Projects Completed in 2008

New Cut Dune and Marsh Restoration (TE-0037)

CWPPRA - Total Cost \$12,869,325 / State Dollars \$1,742,899

The objective of this project was to close the breach between East and Trinity Islands that was originally created by Hurricane Carmen (1974) and subsequently enlarged by Hurricane Juan (1985) and Hurricane Andrew (1992). The project will create barrier island dunes and marsh habitat and lengthen the structural integrity of the eastern Isles Dernieres by restoring the littoral drift and adding sediment into the near-shore system.

West Lake Boudreaux Shoreline Protection and Marsh Creation (TE-0046)

CWPPRA - Total Cost \$19,143,813 / State Dollars \$2,684,072

The purpose of this project was to create and nourish about 200 acres of marsh along the western shoreline of Lake Boudreaux to protect the shoreline from erosion due to direct exposure to lake wave energy and to restore interior marsh lost to subsidence and saltwater intrusion.

Chabert Hospital Levee (TE-0084)

STATE - Total Cost \$500,000 / State Dollars \$500,000

These funds were used to partially fund a levee around the Chabert Hospital in Terrebonne Parish.

Projects Completed in 2007

Dedicated Dredging - Point au Fer (LA-0001-F)

STATE - Total Cost \$2,469,250 / State Dollars \$2,469,250

This project created approximately 67 acres of marsh north of Lake DeCade along the western bank of Minors Canal. The project was implemented through the coastwide State Dedicated Dredging Program.

Lower Petit Caillou (TE-0007-B)

STATE - Total Cost \$1,536,084

The objective of this project is to decrease saltwater intrusion into the project area by re-routing freshwater discharge from the Lashbrook pumping station through the project area prior to entry into Lake Boudreaux.

Terrebonne Bay Shore Protection Demonstration (TE-0045)

CWPPRA - Total Cost \$3,968,768 / State Dollars \$407,815

This project was intended to evaluate several different shoreline protection methods, including concrete mats, artificial oyster reefs, and A-Jacks.

Bush Canal and Bayou Terrebonne Bank Stabilization (TE-0125)

CIAP - Total Cost \$3,700,000

This project reconstructed the south bank of Bush Canal using material dredged from the canal. The restored bank-line was then covered with geotextile fabric and armored with stone rip-rap. The rebuilt bank-line will help to diminish storm surge as well as reduce saltwater intrusion. This project was funded by the CIAP of 2001.

2017 MASTER PLAN PROJECTS

Restoration Projects: Year 1-10

Central Terrebonne Hydrologic Restoration (03a.HR.02)

Construction of a rock plug in Grand Pass with a 150-foot by 15-foot navigable section to prevent saltwater intrusion from Caillou Lake into Lake Mechant.

Mauvais Bois Ridge Restoration (03a.RC.04)

Restoration of approximately 43,400 feet of historic ridge to an elevation of 5 feet NAVD88 at Mauvais Bois to provide coastal upland habitat, restore natural hydrology, and provide wave and storm surge attenuation.

Bayou Pointe Aux Chenes Ridge Restoration (03a.RC.06)

Restoration of approximately 43,600 feet of historic ridge to an elevation of 5 feet NAVD88 to provide coastal upland habitat, restore natural hydrology, and provide wave and storm surge attenuation along the southern portions of Bayou Pointe Aux Chenes.

Atchafalaya River Diversion (03a.DI.05)

Sediment diversion off the Atchafalaya River to benefit the Penchant Basin and southwest Terrebonne marshes with 30,000 cfs capacity (modeled at 26% of the Atchafalaya River flow upstream of the confluence with Bayou Shaffer).

Terrebonne Bay Rim Marsh Creation Study (03a.MC.03p)

Planning, engineering, and design of marsh creation features to provide benefits to communities in Terrebonne Parish and the Morganza to the Gulf protection system.

Increase Atchafalaya Flow to Terrebonne (03b.DI.04)

Dredging of the Gulf Intracoastal Waterway (GIWW) and construction of a bypass structure at the Bayou Boeuf Lock from the Atchafalaya River to Terrebonne marshes with 20,000 cfs capacity.

Restoration Projects: Year 11-30**South Terrebonne Marsh Creation (03a.MC.100)**

Creation of approximately 23,600 acres of marsh south of Dulac between Bayou Dularge and Houma Navigation Canal to create new wetland habitat and restore degraded marsh.

Bayou Dularge Ridge Restoration (03a.RC.02)

Restoration of approximately 53,200 feet of historic ridge to an elevation of 5 feet NAVD88 to provide coastal upland habitat, restore natural hydrology, and provide wave and storm surge attenuation along Bayou Dularge.

North Lake Boudreaux Shoreline Protection (03a.SP.100)

Shoreline protection through rock breakwaters designed to an elevation of 3.5 feet NAVD88 along approximately 15,400 feet of the northern shore of Lake Boudreaux east of Hog Point to preserve shoreline integrity and reduce wetland degradation from wave erosion.

North Terrebonne Bay Marsh Creation - Component B (03a.MC.09b)

Creation of approximately 5,400 acres of marsh south of Montegut between Bayou St. Jean Charles and Bayou Pointe Aux Chenes to create new wetland habitat and restore degraded marsh.

North Lake Mechant Marsh Creation (03a.MC.101)

Creation of approximately 12,100 acres of marsh between Lake Decade and Lake Mechant to create new wetland habitat and restore degraded marsh.

Bayou Terrebonne Ridge Restoration (03a.RC.05)

Restoration of approximately 40,700 feet of historic ridge to an elevation of 5 feet NAVD88 to provide coastal upland habitat, restore natural hydrology, and provide wave and storm surge attenuation along the southern portions of Bayou Terrebonne.

Restoration Projects: Year 31-50

[Point Au Fer Island Marsh Creation \(03b.MC.09\)](#)

Creation of approximately 13,000 acres of marsh on Point Au Fer Island to create new wetland habitat and restore degraded marsh.

Risk Reduction Projects: Year 1-30

[Bayou Chene \(03b.HP.13\)](#)

Construction of a structure across Bayou Chene near Amelia.

[Terrebonne - Lower Nonstructural Risk Reduction \(TER.01N\)](#)

Project includes floodproofing non-residential properties where 100-year flood depths are 1-3 feet, elevating residential properties where 100-year flood depths are 3-14 feet, and acquiring residential properties where 100-year flood depths are greater than 14 feet.

[Terrebonne - Houma Nonstructural Risk Reduction \(TER.02N\)](#)

Project includes floodproofing non-residential properties where 100-year flood depths are 1-3 feet, elevating residential properties where 100-year flood depths are 3-14 feet, and acquiring residential properties where 100-year flood depths are greater than 14 feet.

[Morganza to the Gulf \(03a.HP.02b\)](#)

Construction of a levee to an elevation between 15 and 26.5 feet NAVD88 around Houma and Terrebonne Ridge communities from Larose to Humphreys Canal. Project features 471,500 feet of earthen levee, 39,600 feet of T-wall, (22) 6-foot sluice gates, (1) 30-foot stop log, (2) 20-foot stop logs, (13) 56-foot sector gates, (1) 250-foot sector gate, (1) 175-foot sector gate, (1) 125-foot sector gate, (1) 110-foot sector gate, (1) 30-foot sector gate, (1) 110-foot lock gate, (1) 30-foot roller gate, (4) 40-foot roller gates, (1) 56-foot barge gate, (1) 30-foot barge gate, and (4) pump stations.