



Plaquemines Parish Coastal Projects

PROJECTS IN CONSTRUCTION

West Bank and Vicinity (BA-0066)

GNO-HSDRRS - Estimated Cost \$ 4,304,525,784/State Dollars \$831 million

This project provides 100-year protection levels to the Greater New Orleans area on the west side of the Mississippi River in St. Charles, Jefferson, Orleans, and Plaquemines Parishes through rehabilitation or new construction of 76 miles of levees and structures.

New Orleans to Venice (BA-0067)

GNO-HSDRRS —Estimated Cost \$ 1,301,523,760

NOTE: Project is being funded out of the SE Louisiana Flood Protection/LERRDS Surplus funds.

The NOV project consists of 20 areas of work covered by projects NOV 2, NOV 5-14, NOV-NF-W- 4 to 6, and Taskforce Guardian (TFG) Continuing Projects P14 and P17 included in the Plaquemines Parish Hurricane Protection System.

SELA (PO-0057)

HSDRRS - Estimated Cost \$ 1,170,974,586

This project involves multiple measures to reduce damages due to rainfall flooding in Jefferson, Orleans, Plaquemines, St. Bernard, St. Charles, and St. Tammany parishes, including increases in pumping station capacity and improvements in surface and sub-surface drainage features.

PROJECTS IN ENGINEERING AND DESIGN

Mid-Barataria Sediment Diversion (BA-0153)

NFWF - Estimated Construction Cost \$ 1,410,708,675

This project seeks to restore the natural deltaic processes along the Mississippi River north of Ironton near River Mile 60.7 in Plaquemines Parish. When in operation, the project would transfer sediment-laden water from the Mississippi River through a self-contained channel roughly 1.5 miles long, before outfalling past the back levee into mid-Barataria Basin. The project is expected to build and nourish up to 30,000 acres of critical coastal wetlands over a 50-year period.

Barataria Bay Rim Marsh Creation and Nourishment (BA-0195)

CWPPRA - Estimated Cost \$23,545,026

The goal of this project is to create approximately 251 acres of marsh and nourish approximately 266 acres of marsh along the northern rim of Barataria Bay in Jefferson and Plaquemines parishes using sediment dredged from Barataria Bay.

Barataria Basin Ridge and Marsh Creation - Spanish Pass Increment (BA-0203)

NRDA - Estimated Cost \$ 124,500,000

This project involves dredging sediment from the Mississippi River to restore 120 acres of earthen ridge and approximately 1,134 acres of marsh along Spanish Pass in Plaquemines Parish, a natural historic river tributary west of Venice, Louisiana.

Large-Scale Barataria Marsh Creation (BA-0207)

NRDA - Estimated Cost \$178,251,000

This project involves the creation of approximately 1,400 acres of marsh near the south shore of The Pen in Jefferson and Plaquemines parishes using sediment from the Alliance Anchorage and Willis Point Anchorage borrow areas. The project is an increment of the Large-Scale Marsh Creation Project Component E identified in the NRDA Draft Strategic Restoration Plan for the Barataria Basin.

Mid-Breton Sediment Diversion (BS-0030)

NFWF - Estimated Cost \$798,609,888

This project will design and construct the Mid-Breton Sediment Diversion at a maximum capacity of 35,000 cfs on the east bank of the Mississippi River in upper Plaquemines Parish. When in operation, the project would transfer sediment-laden water from the Mississippi River through a self-contained channel before outfalling into mid-Breton Basin.

Mid-Breton Land Bridge Marsh Creation & Terracing (BS-0032)

CWPPRA - Estimated Cost \$ 40,822,269

This project involves the creation and nourishment of approximately 451 acres of intertidal marsh on the Mid-Breton Land Bridge in Plaquemines Parish with material dredged from Lake Lery, and approximately 22,960 linear feet of terraces in strategic areas to restore marsh habitat between the Bayou Terre aux Boeufs and River aux Chenes ridges.

East Bank Sediment Transport Corridor (BS-0033)

STATE - Estimated Cost \$1,050,000

This project will investigate the establishment of a sediment pipeline corridor on the East Bank of the Mississippi River. St. Bernard Parish will develop the East Bank Sediment Transport Corridor Project Preliminary Design and Implementation Plan to include the necessary engineering, environmental, geotechnical, economic, logistical, and land rights requirements for implementation.

Sediment Diversion Implementation and Program Management (LA-0276)

NFWF- Estimated Cost TBD

This project will include all work involved in the development of the NFWF Diversion Management program. Program management will be performed by CPRA personnel and contracted support staff and includes the development of full engineering and design scopes for both the Mid-Barataria (BA-0153) and Mid-Breton (BS-0030) diversions.

Pass a Loutre Crevasses NRDA (MR-0169)

NRDA – Estimated Cost \$1,568,000

The project would be implemented on the Pass-a-Loutre Wildlife Management Area (WMA) and would include the construction of five (5) crevasses (openings) in the natural spoil banks of the WMA's passes. These crevasses would provide recreational hunters, fishermen, and non-consumptive users access to wetlands that are currently inaccessible by boat. These crevasses would also divert sediment-laden river water into shallow open ponds, enhancing habitat for wildlife and fisheries. The project would further enhance recreational use for the users of the WMA.

Pass a Loutre Campgrounds NRDA (MR-0170)

NRDA – Estimated Cost \$1,624,000

The project would be implemented the Pass-a-loutre Wildlife Management Area (WMA) and would include improvements at five (5) existing campgrounds throughout the WMA. Campground improvements would include new picnic tables, fire pit/barbeque areas, and docks at all campgrounds. The project would also install bulkheads at two campgrounds and dredge shallow areas at three other campgrounds. The dredged material would be placed on the adjacent campgrounds to elevate the facility above expected storm-surge inundation elevations. This would protect much of the campground infrastructure during summer tropical storm events. The campground improvements would enhance the experience of campground users visiting the WMA, reduce ongoing erosion, and improve public access.

Rosethorne Basin Phase 1 & 2 (LAILD)

GOMESA – Estimated Cost \$11,000,000

Rosethorne Tidal Protection Project. Phase 1 – Construct 1.9 mi. of floodwalls/bulkheads/gates to +7.5 ft. Phase 2 – Improve 3.5 mi. levee to +8.5 ft.

NF-06a. 1 Drainage Canal Relocation ROW Acquisition

GOMESA – Estimated Cost \$7,500,000

Project is part of the USACE NOV program and consists of the relocation of drainage canals.

100-yr Levee Lift: Oakville to LaReusitte and MRL 179

GOMESA – Estimated Cost \$1,500,000

This project will elevate levees to provide 100-year level of levee alignment.

PROJECTS IN PLANNING

New Orleans to Venice Mitigation – Plaquemines - Non-Fed (BA-0158)

GNO-HSDRRS - Estimated Cost \$14.5 million

USACE mitigation projects, for impacts incurred during construction of the New Orleans to Venice (NOV) Plaquemines Non-Federal Levee protection projects, consisting of approx. 230 acres of Bottomland Hardwood, Marsh, and Swamp in the Barataria Basin.

New Orleans to Venice Mitigation - Plaquemines - Fed (BA-0159)

GNO-HSDRRS - Estimated Cost \$30 million

USACE mitigation projects, for impacts incurred during construction of the New Orleans to Venice (NOV) Plaquemines Federal Levee protection projects, consisting of approx. 303 acres of Bottomland Hardwood, Marsh, and Swamp in the Barataria Basin.

NRDA REC USE PROJECTS

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Belle Chasse

NRDA - Plaquemines Parish - \$250,000

Construction of a new back-down boat ramp and parking facility at the existing unimproved boat launch off Walker Road in Belle Chasse.

Statewide Artificial Reefs

NRDA – LDWF – Estimated Cost \$6,000,000

COMPLETED PROJECTS

Projects Completed in 2018

Spanish Pass Ridge and Marsh Restoration (BA-0191)

WRDA - Estimated Cost \$18.1 million

The purpose of this project is restoration of a historic ridge backed by a marsh platform using dredged material removed through the routine operation and maintenance dredging of the Mississippi River Hopper Dredge Disposal Area.

Projects Completed in 2017

Cheniere Ronquille Barrier Island Restoration (BA-0076)

NRDA - Total Cost \$51,145,769 / State Dollars \$1,003,500

The project goal is to maintain shoreline integrity and create and restore saline marsh on Chenier Ronquille. The project involves dedicated dredging from nearshore Gulf deposits to create saline marsh in open water areas and nourish existing marshes and barrier shoreline in project area. Intensive dune plantings in the project area were also proposed. This project was transferred to NRDA for construction.

Shell Island West - NRDA (BA-0111)

NRDA - Total Cost \$101,307,860 / State Dollars \$101,307,860

This project created 299 acres of marsh and 320 acres of dune and beach on the western lobe of Shell Island in Plaquemines Parish using 5.7 million cubic yards of sediment dredged from the Mississippi River and the Gulf of Mexico.

Bayou Dupont Sediment Delivery- Marsh Creation #3 and Terracing (BA-0164)

CWPPRA - Total Cost \$18,733,494/State Dollars \$2,622,525

This project created and nourished approximately 137 acres of emergent intermediate marsh using sediment from the Mississippi River. Dredged sediment was pumped via pipeline into an area of open water and broken marsh. In addition, 9,679 linear feet of terraces were created in an area adjacent to the marsh creation construction unit.

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

CWPPRA - Cost \$33,716,987/State Dollars \$4,870,048

This project involves dredging sediment to create 396 acres of marsh and restoring approximately 32,000 feet of the southern Lake Lery shoreline.

Lake Pontchartrain & Vicinity (PO-0063)

HSDRRS - Total Cost \$3,852,000,000 / State Dollars \$760,000,000

This project is designed to provide 100-year protection levels to the Greater New Orleans area on the east side of the Mississippi River in St. Charles, Jefferson, Orleans and St. Bernard parishes through rehabilitation or new construction of over 150 miles of the levees and structures.

Projects Completed in 2016

Mississippi River Long Distance Sediment Pipeline (BA-0043-EB)

CIAP - Total Cost \$66,310,461 / State Dollars \$63,700,489

This project involved the creation of a reusable corridor for future restoration projects in the Barataria Landbridge in Plaquemines Parish, and the creation and nourishment of approximately 415 acres of marsh using 3.8 million cubic yards of sediment dredged from the Mississippi River.

Projects Completed in 2015

Lake Hermitage Marsh Creation (BA-0042)

CWPPRA - Total Cost \$44,050,491/State Dollars: \$10,505,768

This project involved the creation of approximately 549 acres of wetlands in marshes surrounding Lake Hermitage in Plaquemines Parish using sediment dredged from the Mississippi River. The project also created approximately 50 acres of marsh through a shoreline restoration feature.

Grand Liard Marsh and Ridge Restoration (BA-0068)

CWPPRA - Total Cost \$42,804,677/State Dollars \$6,233,200

This project created about 328 acres of marsh, nourished about 140 acres of marsh, and constructed about 20,000 linear feet of ridge along Grand Liard in Plaquemines Parish using approximately 2 million cubic yards of sediment dredged from the Gulf of Mexico.

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Projects Completed in 2014

Fringe Marsh Repair (BA -0058)

CIAP - Total Cost \$8,756,606

This project reestablished approximately 300 acres of fragile marsh and minimized the continued fragmentation of wetlands system in lower Plaquemines Parish. The project targeted use of sediment from canals that require maintenance dredging.

Storm-Proofing of Interior Pumping Stations (BA-0074)

HSDRRS - Total Cost \$340,000,000

This project consists of additions of various improvement features to the interior pump stations of Orleans and Jefferson Parish under the Hurricane and Storm Damage Risk Reduction System (HSDRRS).

Shell Island East - Berm (BA-0110)

BERM - Total Cost \$47,679,580/State Dollars \$47,294,267

This project created 83 acres of marsh and 188 acres of dune and beach on the eastern lobe of Shell Island in Plaquemines Parish using 2.17 million cubic yards of sediment dredged from the Mississippi River. The project also utilized the existing platform previously created on the project site as part of the 2010 Emergency Barrier Berm (LA-0163) project.

NRDA Lake Hermitage Marsh Creation Increment 2 (BA-0141)

NRDA - Total Cost \$7,321,162/State Dollars \$7,321,162

This project was constructed as a component of the CWPPRA Lake Hermitage Marsh Creation (BA-0042) project and involved the construction 101 acres of marsh in Fill Site B of that project in Plaquemines Parish.

Projects Completed in 2013

Riverine Sand Mining/ Scofield Island Restoration (BA-0040)

BERM - Total Cost \$60,839,484/State Dollars \$60,839,484

This project involved the creation of 369 acres of marsh and 237 acres of dune on Scofield Island in Plaquemines Parish using approximately 4.4 million cubic yards of sediment dredged from the Mississippi River. The project also utilized the existing platform previously created on the project site as part of the 2010 Emergency Barrier Berm (LA-0163) project.

Shoreline Protection Emergency Restoration (BA-0162-SPER)

CIAP - Total Cost \$355,780

This project involved the installation of 14,320 plants along 1.4 miles of shorelines impacted by the Deepwater Horizon (DWH) Spill in Bay Jimmy in order to re-establish the vegetation which helped stabilize the marsh platform to benefit 16.4 acres.

Projects Completed in 2012

Barataria Barrier Island Complex: Pelican Island and Pass La Mer to Chalant Pass Restoration (BA-0038)

CWPPRA - Total Cost \$52,894,031 / State Dollars \$7,746,554

This project involved the creation of 190 acres of dune and 396 acres of marsh on Pelican Island in Plaquemines Parish using approximately 3.6 million cubic yards of sediment from two offshore borrow sites. The project also utilized the existing platform previously created on the project site as part of the 2010 Emergency Barrier Berm (LA-0163) project.

LA Hwy 23 Raising at Lareussite (LA-0225)

STATE - Total Cost \$1,200,000 / State Dollars \$1,200,000

This project involved elevating LA-23 at its crossing with the adjoining LaReussite Siphon guide levees. The project was designed and constructed by DOTD.

Projects Completed in 2011

Emergency Barrier Berms (LA-0163)

OIL SPILL - Total Cost \$251,000,000 / State Dollars \$251,000,000

In response to the Deepwater Horizon oil spill which began on April 20, 2010, the State of Louisiana constructed approximately 16 miles of sand berms along several sections of the State's barrier islands both east and west of the Mississippi River in Plaquemines and St. Bernard parishes. The objective of these projects was to provide a barrier to oil and minimize the potential impact of the oil spill to thousands of acres of fragile barrier islands and wetlands in coastal Louisiana. Much of the material utilized in the berms was later incorporated into barrier island restoration projects on Pelican Island (BA-0038), Scofield Island (BA-0040), and Shell Island (BA-0110).

Projects Completed in 2010

East Grand Terre (BA-0030-EB)

CIAP - Total Cost \$25,426,247

The project goal was to restore 2.8 miles and 620 acres of barrier shoreline and 450 acres of marsh on East Grand Terre Island in Plaquemines Parish using 3.3 million cubic yards of offshore sediment. The project was designed under the CWPPRA Program and constructed under the CIAP program.

Bayou Dupont Sediment Delivery System-(BA-0039)

CWPPRA/ARRA - Total Cost \$26,797,363/State Dollars \$3,389,023

This project created and restored approximately 568 acres of brackish marsh adjacent to Bayou Dupont in Plaquemines Parish using approximately 2.3 million cubic yards sediment dredged from the Mississippi River, which was pumped via a 6-mile dredge pipeline to the project site. This marsh restoration project was the first of its kind to utilize the renewable sediment resources of the Mississippi River to create marsh, and is the first increment of several projects planned to rebuild the Barataria Land bridge.

Projects Completed in 2009

Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-0035)

CWPPRA - Total Cost \$37,023,827/State Dollars \$5,553,574

This project involved the creation of 420 acres of dune and marsh platform on the north side of the Gulf of Mexico adjacent to Bay Joe Wise in Plaquemines Parish using 3.67 million cubic yards of sediment dredged from a nearshore Gulf borrow area. Sand fencing and vegetation were also installed on the constructed platform.

2017 COASTAL MASTER PLAN PROJECTS

Risk Reduction Projects Year 1-30

West Bank Nonstructural Risk Reduction (PLA.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.

Braithwaite Nonstructural Risk Reduction (PLA.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.

Grand Bayou Nonstructural Risk Reduction (PLA.03N)

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.

Phoenix/Pointe A La Hache Nonstructural Risk Reduction (PLA.05N)

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.

Risk Reduction Projects Year 31-50

Greater New Orleans High Level (001.HP.04)

Improvements of existing Hurricane and Storm Damage Risk Reduction System levees surrounding the East Bank of Greater New Orleans to elevations between 19 and 35 feet NAVD88. Project features approximately 202,000 feet of earthen levee and approximately 242,100 feet of T-wall.

Restoration Projects: Year 1-10

Lower Breton Diversion (001.DI.02)

Sediment diversion of 50,000 cfs into Lower Breton Sound to build and maintain land.

Mid-Breton Sound Diversion (001.DI.104)

Sediment diversion of 35,000 cfs into Mid-Breton Sound in the vicinity of White's Ditch to build and maintain land.

Mid-Barataria Diversion (002.DI.102)

Sediment diversion of 75,000 cfs into Mid-Barataria near Myrtle Grove to build and maintain land.

Bayou Terre Aux Boeufs Ridge Restoration (001.RC.100)

Restoration of approximately 91,200 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 to approximately 180 acres along Bayou Terre aux Boeufs.

Carlisle Ridge Restoration (001.RC.103)

Restoration of approximately 38,200 feet of a natural land bridge to an elevation of 5 feet NAVD88 to provide coastal upland habitat, restore natural hydrology, and provide wave and storm surge attenuation to approximately 80 acres near Carlisle.

Adams Bay Ridge Restoration (002.RC.101)

Restoration of approximately 31,600 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 to approximately 60 acres along Adams Bay.

Bayou Eau Noire Ridge Restoration (002.RC.102)

Restoration of approximately 34,800 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 Eau Noire.

Grand Bayou Ridge Restoration (002.RC.103)

Restoration of approximately 48,100 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 to approximately 90 acres along Grand Bayou.

Lake Hermitage Shoreline Protection (002.SP.100)

Shoreline protection through rock breakwaters designed to an elevation of 3.5 feet NAVD88 along approximately 6,500 feet around the southern shore of Lake Hermitage to preserve shoreline integrity and reduce wetland degradation from wave erosion.

Restoration Projects: Year 11-30

Pointe a la Hache Marsh Creation* (001.MC.102)

Creation of approximately 13,700 acres of marsh on the east bank of Plaquemines Parish near Pointe a la Hache to create new wetland habitat and restore degraded marsh.

East Bank Land Bridge Marsh Creation (001.MC.104)

Creation of approximately 2,300 acres of marsh in Plaquemines Parish between Grand Lake and Lake Lery to create new wetland habitat, and restore degraded marsh.

Spanish Lake Marsh Creation (001.MC.105)

Creation of approximately 800 acres of marsh in Plaquemines Parish along the eastern shore of Spanish Lake to create new wetland habitat and restore degraded marsh.

Tiger Ridge/Maple Knoll Marsh Creation (001.MC.107)

Creation of approximately 4,700 acres of marsh in Plaquemines Parish near Tiger Ridge to create new wetland habitat and restore degraded marsh

Large-Scale Barataria Marsh Creation – Component E (002.MC.05e)

Creation of approximately 12,900 acres of marsh in the Barataria Basin south of the Pen to the Barataria Landbridge to create new wetland habitat and restore degraded marsh.

Spanish Pass Ridge Restoration (002.RC.02)

Restoration of approximately 46,300 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 to approximately 30 acres west of Venice along the banks of Spanish Pass.

Red Pass Ridge Restoration (002.RC.100)

Restoration of approximately 23,000 feet of historic ridge southwest of Venice to provide coastal upland habitat, restore natural hydrology, and provide wave and storm surge attenuation along the banks of Red Pass.

Restoration Projects: Year 31-50

Uhlan Bay Marsh Creation (001.MC.101)

Creation of approximately 700 acres of marsh on east bank of Plaquemines Parish around Uhlan Bay to create new wetland habitat and restore degraded marsh.

Pointe a la Hache Marsh Creation* (001.MC.102)

Creation of approximately 5,400 acres of marsh on the east bank of Plaquemines Parish near Pointe a la Hache to create new wetland habitat and restore degraded marsh.