



Orleans Parish Coastal Projects

PROJECTS IN CONSTRUCTION

West Bank and Vicinity (BA-0066)

GNO-HSDRRS - Estimated Cost \$4.3 billion/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 over 76 miles of levees and structures.

SELA – HSDRRS (PO-0057)

HSDRRS - Estimated Cost \$1.2 million

Project reduces damages due to rainfall flooding in Orleans and Jefferson Parishes through increases in pump station capacity, and improvements in surface and sub-surface drainage features.

HSDRRS Mitigation – LPV (PO-0121)

GNO-HSDRRS - Estimated Cost \$85 million

The USACE mitigation projects are located throughout southeast Louisiana and are intended to mitigate for impacts during construction of the Lake Pontchartrain and Vicinity (LPV) Hurricane and Storm Damage Risk Reduction System (HSDRRS). The various projects total approximately 1,089 acres of restored or mitigated bottomland hardwood forest, marsh, and swamp habitat.

Violet Canal North Levee Alignment (PO-0170)

State/Surplus - Estimated Cost \$4 million

This project provides for the construction of a levee/floodwall in the vicinity of the Violet Canal, to maintain flood protection for the public and provide mutual benefit to the citizens within the territorial jurisdictions of Orleans Levee District and Lake Borgne Basin Levee District. The floodwall is required for the certification of the Forty Arpent and Florida Avenue levee systems located in Orleans Parish and St. Bernard Parish.

PROJECTS IN ENGINEERING AND DESIGN

Golden Triangle Marsh Creation (PO-0163)

RESTORE - Estimated Cost \$54.5 million

This project would complete the engineering and design to create approximately 600 acres of marsh within the Golden Triangle Marsh system.

New Orleans Landbridge Shoreline Stabilization and Marsh Creation (PO-0169)

CWPPRA - Estimated Cost \$17.8 million

The project goal is to restore and enhance 271 acres of brackish marsh (169 acres marsh creation and 102 acres nourishment) and to enhance 15,340 linear feet of shoreline through the construction of an earthen shoreline berm.

St. Catherine Island Marsh Creation and Shoreline Protection (PO-0179)

CWPPRA - Estimated Cost \$25.3 million

This project is being designed to protect a portion of the Lake Pontchartrain shoreline and restore/protect interior marsh habitat with the placement of dredged material (hydraulic dredge). The specific goals of the project are: 1) halt shoreline erosion by protecting approximately 13,000 ft. of Lake Pontchartrain shoreline with shoreline revetment and construct approximately 7,000 ft. of foreshore dike and 2) create approximately 93 acres of marsh and nourish an additional 126 acres of marsh with material dredged from Lake Pontchartrain.

PROJECTS IN PLANNING

LPV Risk Reduction (PO-0182)

HSDRRS - Estimated Total Cost \$3,000,000

This study seeks to determine if the work necessary to sustain the 1% level of risk reduction is technically feasible, environmentally acceptable, and economically justified.

NRDA REC USE PROJECTS

Statewide Artificial Reefs

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

This project enhances eleven multipurpose reef sites across coastal Louisiana.

COMPLETED PROJECTS

Projects Completed in 2018

Permanent Canal Closures and Pump Stations (PO-0060)

HSDRRS - Estimated Cost \$614.8 million

In June 2006, Congress passed Public Law 109-234 giving the USACE authorization and appropriations to reduce storm surge risk to Orleans and Jefferson Parishes by the design and construction of permanent protection at three outfall canals. This will be accomplished by modifying the 17th Street, Orleans Avenue, and London Avenue drainage canals and installing pumps and closure structures at or near the lakefront.

Projects Completed in 2017

Lake Pontchartrain and Vicinity (PO-0063)

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

This project was 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. It is through rehabilitation or new construction on over 150 miles of the levees and structures that will make up the Lake Pontchartrain and Vicinity Hurricane Protection System.

Projects Completed in 2016

Central Wetlands Demonstration (PO-0073)

CIAP - Total Cost \$3,561,832

This project restored portions of the Central Wetlands by constructing wetland cells and providing nutrients through the introduction of treated municipal wastewater effluent to the constructed wetlands. This process is known as wetland assimilation and aids in restoring the area to its former cypress-tupelo swamp status, which serves to buffer storm surges approaching the New Orleans and St. Bernard Parish areas from the south and east.

Central Wetlands Demonstration Expansion (PO-0073-3)

CIAP - Total Cost \$4,500,000

The Central Wetlands Demonstration Expansion project would restore up to 17.2 acres of critical wetlands in the area designated A-1 using wetlands assimilation of treated wastewater effluent and/or beneficial use of ash/biosolids from the East Bank Wastewater Treatment Plant and other sediment from Sewage and Water Board of New Orleans operations. Once the cell has been completed, the intent is to promote an ecological diversity with indigenous planting from cypress/tupelo trees to floating marsh islands.

Projects Completed in 2015

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

GNO-HSDRRS - Total Cost: \$340,000,000

This project repaired and improved features of interior pump stations of Orleans and Jefferson Parish under the Hurricane and Storm Damage Risk Reduction System (HSDRRS). These improvements were done to allow the pump stations to remain operable during and after future storm events. Examples of stormproofing include raising critical components to avoid submersion during floods and adding backup power and fuel sources.

LPV Task Force Guardian Mitigation- Bayou Sauvage (PO-0145)

HSDRRS - Total Cost \$1,960,497

The project consists of the restoration of 145 acres of bottomland hardwood forest through plantings of appropriate tree species. In addition, Chinese tallow and other invasive species were removed or will be controlled through the project life.

Projects completed in 2014

Lake Pontchartrain & Vicinity, IHNC Surge Barrier, LPV-IHNC-02 (PO-0055)

HSDRRS - Total Cost \$1,134,000,000

This project constructed a Hurricane Surge Barrier across the tip of Lake Borgne connecting the MRGO levees south of Bayou Bienvenue with the GIWW levees East of Michoud Canal with floodgates at Bayou Bienvenue and GIWW.

Projects completed in 2013

Orleans Land Bridge Shoreline Protection & Marsh Creation (PO-0036-EB)

CIAP - Total Cost \$30,420,000

The project made beneficial use of the material from the demolition of the I-10 Twin Span Bridge damaged during Hurricane Katrina. Concrete was crushed into aggregate-sized material (no less than 1.5 inches, no larger than 8 inches) and placed into Geogrid Marine Mattresses (5 feet wide, 38 feet long, 18 inches thick). The mattresses were placed as revetment along the shoreline with strategic gaps to help reduce habitat impact and maintain flow within the marsh interior.

Lake Pontchartrain & Vicinity, Seabrook LPV-IHNC-01 (PO-0064)

HSDRRS - Total Cost \$157,156,414

This project constructed a gate closure structure across the Industrial Canal approximately 500 ft. south of the Ted Hickey Bridge at Lake Pontchartrain to work in conjunction with the IHNC Borgne Surge Barrier.

2017 COASTAL MASTER PLAN PROJECTS

Risk Reduction Projects Year 1-30

Lake Pontchartrain Barrier (001.HP.08)

Construction of closure gates and weirs to an elevation of 2 feet NAVD88 across the passes at Chef Menteur and the Rigolets for storm surge risk reduction within the Lake Pontchartrain Basin.

Orleans - Rigolets Nonstructural Risk Reduction (ORL.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.

Orleans - Lake Catherine Nonstructural Risk Reduction (ORL.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.

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

Restoration Projects: Year 1-10

New Orleans East Landbridge Restoration* (001.MC.05)

Creation of approximately 11,600 acres of marsh in the New Orleans East Landbridge to create new wetland habitat and restore degraded marsh.

Golden Triangle Marsh Creation (001.MC.13)

Creation of approximately 3,900 acres of marsh in Golden Triangle Marsh between MRGO and GIWW to create new wetland habitat and restore degraded marsh.

Unknown Pass to Rigolets Shoreline Protection (001.SP.101)

Shoreline protection through rock breakwaters designed to an elevation of 3.5 feet NAVD88 along approximately 2,000 feet of the east side of the New Orleans Landbridge from Unknown Pass to the Rigolets to preserve shoreline integrity and reduce wetland degradation from wave erosion.

Restoration Projects: Year 11-30

New Orleans East Landbridge Restoration* (001.MC.05)

Creation of approximately 21,800 acres of marsh in the New Orleans East Landbridge to create new wetland habitat and restore degraded marsh.

Central Wetlands Marsh Creation – Component A (001.MC.08a)

Creation of approximately 2,800 acres of marsh in Central Wetlands near Bayou Bienvenue to create new wetland habitat and restore degraded marsh.

***Note: Projects with (*) designate the implementation of a portion of a larger marsh creation project. In addition, Orleans Parish may also receive some benefits from sediment diversion projects in adjacent parishes.