





With the passage of Act 8 of the First Extraordinary Session of 2005 (Act 8), the Louisiana Legislature mandated the integration of hurricane protection activities (e.g., levee construction) and coastal restoration activities (e.g., river diversions or marsh creation). Act 8 also created the Coastal Protection and Restoration Authority (CPRA) and tasked it with oversight of these activities. The Office of Coastal Protection and Restoration (OCPR) was designated as the implementation arm of the CPRA. To avoid confusion, the 2012 Louisiana Legislature changed the name of the state agency from OCPR to CPRA.

The CPRA is required by Act 523 of the 2009 Regular Legislative Session, to produce an Annual Plan that inventories projects, presents implementation schedules for these projects, and identifies funding schedules and budgets. This Fiscal Year (FY) 2018 Annual Plan provides an update on the state's efforts to protect and restore its coast and describes the short-term and long-term results that citizens can expect to see as the state progresses toward a sustainable coast.

Fiscal Year 2018 Annual Plan: Integrated Ecosystem Restoration and Hurricane Protection in Coastal Louisiana Submitted to the Senate Natural Resources Committee

House Natural Resources and Environment Committee Senate Transportation, Highways and Public Works Committee House Transportation, Highways and Public Works Committee by The Coastal Protection and Restoration Authority of Louisiana In accordance with R.S. 49:214.5.3 and R.S. 49:214.6.1

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Three hundred copies of this public document were published in the first printing at a cost of \$3,720.

The document was published by the Coastal Protection and Restoration Authority of Louisiana. This material was printed in accordance with standards of printing for State agencies established in R.S. 43:31. Printing of this material was purchased in accordance with the provisions of Title 43 of the Louisiana Revised Statutes.

Coastal Protection and Restoration Authority, 2017. Fiscal Year 2018 Annual Plan: Integrated Ecosystem Restoration and Hurricane Protection in Coastal Louisiana. Coastal Protection and Restoration Authority of Louisiana. Baton Rouge, LA.



## State of Louisiana

JOHN BEL EDWARDS GOVERNOR

April 25, 2017

Dear Friends,

I am pleased to submit to you the Coastal Protection and Restoration Authority's Integrated Ecosystem Restoration and Hurricane Protection in Coastal Louisiana: Fiscal Year 2018 Annual Plan.

The Annual Plan includes three-year revenue and expenditure projections, project implementation schedules, and a program progress assessment. It also identifies immediate actions toward implementation of the Coastal Master Plan. Included in this year's plan are funds from the *Deepwater Horizon* oil spill for restoration projects to address injuries to natural resources in Louisiana, for marsh creation and living shoreline projects, and funds for the continued advancement of two major sediment diversion projects critical to the long-term sustainability of coastal Louisiana. These projects require extremely sophisticated and comprehensive planning, strict adherence to engineering and design schedules, and an adaptive management program to ensure optimal implementation and management.

While restoring our natural assets, we must also protect what we still have. Flood gates like the recently-dedicated Petite Caillou floodgate and rollergate near Cocodrie—part of the ever-advancing Morganza to the Gulf levee system—and the barge gate on Bayou Lafourche at Lockport are examples of critical flood risk reduction projects. In FY 2018, additional flood reduction projects include levee lifts, installation of permanent pump stations, tidal protection at Rosethorne and Jean Lafitte, flood protection improvements at Morgan City, and additional St. Mary Parish backwater flood protection project, to name just a few.

We also acknowledge that while we cannot restore Louisiana's footprint to the time before the levees were built, CPRA's Coastal Master Plan is a bold action plan that recognizes the urgency to reconnect the Mississippi River to the delta. Every single decision we make will be based on reflection and review of those decisions that came before it. Using engineering, ingenuity, and adaptive science, CPRA will implement robust solutions to counter Louisiana's coastal land loss.

Under Governor John Bel Edwards' administration, the CPRA and its Board will continue to work for the people of Louisiana who raise their families and make a living on our working coast. They deserve the chance to continue doing so for many generations to come, and we are dedicated to this goal.

I encourage you to read the plan, ask questions about the plan, and become an advocate of the plan. Stand with us to build momentum and consensus around the plan, now and for future generations, to support implementation of the 2017 Coastal Master Plan.

Sincerely,

Johnny Bradberry

Chair, Coastal Protection and Restoration Authority



#### Purpose of the Annual Plan

# Origin of the Annual Plan

# This plan is the annual report card used to track the progress of projects outlined in *Louisiana's Comprehensive Master Plan for a Sustainable Coast*. Additional information and projections are included to foster a better understanding of project implementation schedules and funding.

In 2007, in response to Act 8's directive, the State released *Integrated Ecosystem Restoration and Hurricane Protection: Louisiana's Comprehensive Master Plan for a Sustainable Coast* (2007 Coastal Master Plan). The 2007 Coastal Master Plan established four planning objectives as benchmarks for implementing coastal protection and restoration projects and identified large-scale measures needed to achieve a sustainable coast. The 2007 Coastal Master Plan was passed unanimously in the Louisiana Legislature and its primacy was subsequently reaffirmed by Gov. Bobby Jindal in Executive Order BJ2008-7, which directed all state agencies to administer their activities, to the maximum extent possible, in accordance with the 2007 Coastal Master Plan's recommendations.

To accommodate the dynamic nature of coastal processes, Act 8 specifies that the Coastal Master Plan is a living document that will be updated every five years to incorporate new data and planning tools as indicated. To comply with the mandate set forth in Act 8, the first update of the Coastal Master Plan was submitted to the Louisiana Legislature in March 2012. It was unanimously adopted. The update will be submitted in April 2017.

Act 523 of the 2009 Regular Legislative Session directed CPRA to produce an Annual Plan each year that inventories integrated coastal protection projects, presents implementation schedules for these projects, and identifies funding schedules and budgets.\*

#### Evolution of the Annual Plan

Historically, the state's Annual Plans for coastal projects provided: 1) an inventory of projects for which the state planned to expend money and resources for a given fiscal year, and 2) recommendations for allocating Coastal Protection and Restoration Funds to those projects. The FY 2010 Annual Plan was the first plan to address the new integrated planning and prioritization directives specified in Act 8. The FY 2018 Annual Plan fulfills the legislative mandate of Act 8 by presenting CPRA's three-year program for funding and implementing projects during FY 2018–FY 2020.

Additionally, the FY 2018 Annual Plan builds on the process which began in the FY 2010 plan and provides an expanded discussion of CPRA's progress in protecting and restoring the coast. Section 2 provides a summary of some of the progress and accomplishments achieved through FY 2017; Section 3 outlines an implementation plan for FY 2018; Section 4 gives fiscal projections for FY 2018 to 2020; and the Appendices provide detailed information on CPRA projects, programs and initiatives.

\*La R.S. 49:214.29(4) defines "integrated coastal protection" as "plans, projects, policies, and programs intended to provide hurricane protection or coastal conservation or restoration, and shall include but not be limited to coastal restoration; coastal protection; infrastructure; storm damage reduction; flood control; water resources development; erosion control measures; marsh management; diversions; saltwater intrusion prevention; wetlands and central wetlands conservation, enhancement, and restoration; barrier island and shoreline stabilization and preservation; coastal passes stabilization and restoration; mitigation; storm surge reduction; or beneficial use projects."





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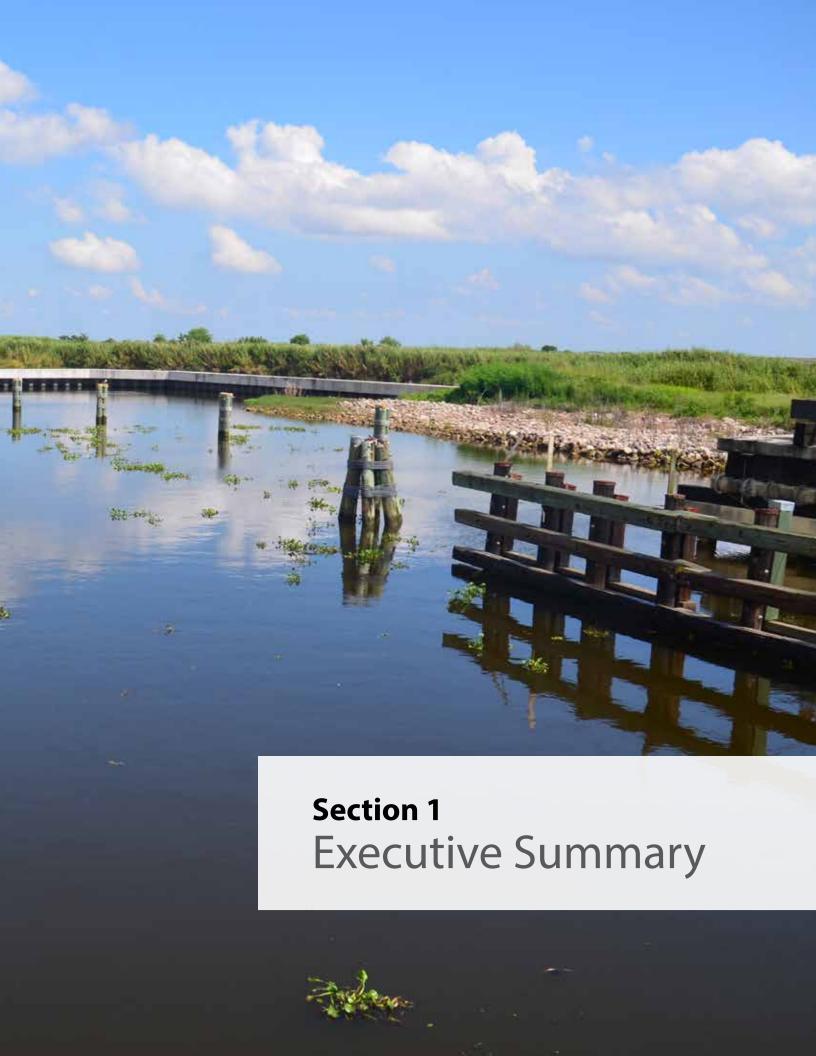
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#### Section 1

### **Executive Summary**

Accomplishments and Notable Projects

Some accomplishments and notable projects completed or in construction in Fiscal Year 17 include:

- Barataria Basin Landbridge Shoreline Protection Phase 3 (BA-0027-C): Completing construction of approximately 22,800 feet of rock dike shoreline to reduce or eliminate erosion along the west bank of Bayou Perot and the north shore of Little Lake. Benefits 5,587 acres of marsh.
- Mississippi River Long Distance Sediment Pipeline (BA-0043-EB): This
  reusable pipeline corridor (that remains available for future restoration
  projects) helped accomplish a suite of projects in Plaquemines and
  Jefferson Parishes below Belle Chasse that used sustainable sediment
  sources to create and nourish approximately 542 acres of marsh in an area
  where sediment is limited.
- **Bayou Dupont Marsh and Ridge Creation (BA-0048)**: This completed project used sediment from the Mississippi River to create 277 acres of marsh, nourish 93 additional acres of marsh, and built 20 acres (11,000 linear feet) of ridge. Project used a total of more than 5.3 million cubic yards of cut and fill sediment.
- Bayou Dupont Sediment Delivery Marsh Creation #3 and Terracing (BA-0164): Created and nourished 138 acres of emergent intermediate marsh using sediment from the Mississippi River, along with creation of 9,679 linear feet of terraces.
- Bayou Bonfouca Marsh Creation (PO-0104): Restoring and nourishing approximately 621 acres of interior marsh and reestablishing the Lake Pontchartrain shoreline rim.
- Mississippi River Water Reintroduction into Bayou Lafourche BLFWD (BA-0161): Constructed a barge-gate capable of preventing saltwater intrusion coming up the bayou. Other components of the project include modifications to the pump station and railroad crossing at Donaldsonville, dredging and other structures addressing problems facing the Bayou Lafourche waterway.
- Jean Lafitte Tidal Protection (BA-0075-1): This project, currently in construction, will provide flood protection improvements by raising 15,840 linear feet of existing earthen levee. The project will also include approximately 7,900 linear feet of concrete capped, steel sheet pile floodwall, and flood gates.
- Living Shoreline (PO-0148): Used 9,000 manmade structures to create 3.1 miles of shoreline protection in Eloi Bay in St. Bernard Parish with the additional goal of oyster reef inducement. Ancillary projects in Plaquemines and Jefferson Parishes.

- Shell Island West NRDA (BA-0111): This completed project has restored the integrity of the Shell Island West barrier island, reduced wave energies within the bay area, and reestablished productive habitat to Bastian Bay and the surrounding area. It created 287 acres of marsh and 319 acres of dune and beach while adding 1.5 miles in length to the eastern lobe of Shell Island (originally restored in 2013 as project BA-0110), and added another 281 acres and 1.2 miles to the western lobe. These islands are part of the Barataria Basin barrier island chain reconstructed in Plaquemines Parish.
- Caminada Headland Beach and Dune Increment 2 (BA-0143):
   This completed project has restored and protected beach and dune habitat across the Caminada Headland through the direct placement of approximately 5.5 million cubic yards of sandy material from Ship Shoal (an offshore borrow source). A total of 489 acres of beach and dune habitat was restored. The restored shoreline stretches 13 miles eastward from Belle Pass at the mouth of Bayou Lafourche below Port Fourchon to the eastern end of Elmer's Island.
- Hydrologic Restoration of the Amite River Diversion Canal (PO-0142):
   This completed project allows for drainage of the Maurepas Swamp into the Amite River Diversion Canal by dredging three bank openings along with conveyance channels, berms and swamp floor vegetative plantings.
- South Lake Lery Shoreline and Marsh Restoration (BS-0016): This project has used 2.1 million cubic yards of dredged sediment to create 396 acres of marsh and restored approximately 32,000 feet of the southern Lake Lery shoreline in Plaguemines Parish.
- SELA (PO-0057): Advancement on the Hurricane & Storm Damage Risk Reduction System around greater metropolitan New Orleans to reduce damage from rainfall flooding in Orleans and Jefferson parishes. This includes increasing pump station capacity and improving surface and subsurface drainage features.
- Lake Pontchartrain and Vicinity (PO-0063): Rehabilitation or new construction of more than 128 miles of levees and structures that make up the Lake Pontchartrain and Vicinity Hurricane Protection System. Involves more than 30 projects in St. Charles, Jefferson, Orleans and St. Bernard Parishes to provide 100 year protection levels.
- LPV Mitigation Project, Manchac WMA Marsh Creation (PO-0146):
   Created approximately 110 acres of marsh using more than 800,000
   cubic yards of dredged material, with five miles of non-continuous rock breakwaters for shoreline protection in St. John the Baptist Parish.
- Grand Lake Shoreline Protection Tebo Point (ME-0021): Construction
  of a rock dike in Cameron Parish to protect the south shoreline of
  Grand Lake from Catfish Lake through Tebo Point, with operations and
  maintenance to include rock dike previously constructed from Superior
  Canal to Catfish Lake.

- Larose to Golden Meadow Larose Sheetpile (TE-0065-SP): Constructed approximately 2,400 feet of sheet pile to an elevation of +13 feet along the Gulf Intracoastal Waterway at Larose in Lafourche Parish to increase the level of hurricane protection for the adjacent area.
- Mississippi River Delta Strategic Planning SSPM Expansion (MR-0016-SSPM): Completing construction of a small scale physical model of the lower Mississippi River housed in a 50,000 square foot building at the Baton Rouge Water Campus.

Projects anticipated to begin or continue construction in Fiscal Year 2018 include:

- Hydrologic Restoration and Vegetative Plantings in the Lac De Allemands Swamp (BA-0034-2)
- Rosethorne Tidal Protection (BA-0075-2)
- Jean Lafitte Tidal Protection (BA-0075-1)
- Lafitte Area Levee Repair (BA-0082)
- WBV HSDRRS Mitigation (BA-0109)
- Previously Authorized WBV Mitigation (BA-0154)
- Kraemer-Bayou Boeuf Levee Lift (BA-0169)
- Spanish Pass Ridge and Marsh Restoration (BA-0191)
- Cameron Creole Watershed Grand Bayou Marsh Creation (CS-0054)
- Oyster Bayou Marsh Creation and Terracing (CS-0059)
- Permanent Canal Closures and Pump Stations (PO-0060)
- Bayou Bonfouca Marsh Creation Project (PO-0104)
- Violet Canal North Levee/Floodwall Realignment (PO-0170)
- Rockefeller Refuge Gulf Shoreline Stabilization (ME-0018)
- Grand Lake Shoreline and Marsh Restoration, Tebo Point (ME-0021)
- Lost Lake Marsh Creation and Hydrologic Restoration (TE-0072)
- Cut-Off Pointe Aux Chene Levee (TE-0078)
- NRDA Caillou Lake Headlands (TE-0100)
- St. Mary Parish Backwater Flood Protection (TE-0116)
- Morgan City Flood Protection Improvements (TV-0055)
- Cole's Bayou Marsh Restoration (TV-0063)

The FY 2018 Annual Plan contains budget projections (Tables ES-1 and ES-2) that show projected revenues and the amount of funds that would actually be needed to accomplish the proposed implementation plan over the next three fiscal years. Resources in FY 2018 will be focused on constructing coastal projects that have already been planned and/or designed (Figure ES-1). Funding projections include state budget surplus funds allocated for coastal projects. The implementation plan and funding projections presented in the FY 2018 Annual Plan represent a snapshot in time based on the available funding sources. The state is actively exploring new sources of funding to ensure that the coastal program maintains its current momentum.

New project opportunities may arise if additional funds become available after the approval of the FY 2018 Annual Plan, and conditions may necessitate reprogramming of existing funds to address changes on the ground. If necessary, reprogramming of existing and new funds would occur, with approval from the CPRA, to ensure that limited coastal program funds are allocated in accordance with Master Plan objectives. Such flexibility allows the coastal program to respond effectively to unforeseen events that take place outside the legislatively mandated planning cycle.

We encourage you to join us as we move forward in our efforts to protect and restore coastal Louisiana. The CPRA Board conducts monthly meetings to provide a forum to hear updates and receive public receive comment on work. In addition, many tools are available online to allow greater visibility of our progress and to provide increased access to information. These resources and information about can be accessed online at www.coastal.la.gov.

#### ▶ Table ES-1: Projected Three-Year Revenues (FY 2018 - FY 2020)

Revenue Sources	FY 2018	FY 2019	FY 2020	Program Total (FY 2018 - FY 2020)
CPR Trust Fund Annual Revenue <sup>1,2</sup>	\$14,600,000	\$15,200,000	\$15,700,000	\$45,500,000
CPR Trust Fund Carried Forward	\$6,751,177	TBD	TBD	\$6,751,177
GOMESA <sup>1,3</sup>	\$140,000,000	\$140,000,000	\$140,000,000	\$420,000,000
GOMESA Carried Forward⁴	\$1,600,000	\$119,750,000	TBD	\$121,350,000
DOTD Interagency Transfer <sup>1</sup>	\$4,000,000	\$4,000,000	\$4,000,000	\$12,000,000
DOTD Interagency Transfer- Projects	\$73,600	\$0	\$0	\$73,600
CWPPRA Federal Funds⁵	\$96,384,103	\$75,904,989	\$76,500,081	\$248,789,173
Surplus '07, '08, '09 Carried Forward	\$161,284,403	\$26,000,310	\$7,054,375	\$194,339,088
Community Development Block Grants	\$9,806,680	\$11,680	\$0	\$9,818,360
Capital Outlay Funds	\$15,560,000	TBD	TBD	\$15,560,000
NRDA Revenues (Deepwater Horizon)	\$140,820,491	\$38,940,922	\$150,855,241	\$330,616,653
NFWF Revenues (Deepwater Horizon)	\$54,410,295	\$65,827,227	\$519,239,290	\$639,476,812
Proposed RESTORE Revenues (Deepwater Horizon)	\$61,718,000	\$48,206,637	\$132,798,175	\$242,722,812
LDNR Mitigation Funds <sup>6</sup>	\$500,000	\$500,000	\$500,000	\$1,500,000
LDNR Beneficial Use Funds <sup>6</sup>	\$250,000	\$250,000	\$250,000	\$750,000
LDWF Interagency Transfer <sup>7</sup>	\$1,000,000	\$0	\$0	\$1,000,000
MOEX Settlement <sup>8</sup>	\$704,687	\$131,250	\$704,687	\$1,540,624
Berm to Barrier <sup>9</sup>	\$98,972	\$14,600	\$21,680	\$135,252
OM&M Federal Funds <sup>10</sup>	\$29,048,815	\$17,423,395	\$15,467,305	\$61,939,515
FEMA Reimbursement for OM&M11,12	\$1,510,886	\$0	\$0	\$1,510,886
LOSCO Funding <sup>13</sup>	\$112,272	\$102,272	\$102,272	\$316,816
NAS Research Practice Grant <sup>14</sup>	\$200,000	\$200,000	\$200,000	\$600,000
Project Billing <sup>15</sup>	\$23,380,757	\$24,701,841	\$25,689,914	\$73,772,512
Capital Outlay Request Submitted for HSDRRS 30-Year Payback	\$0	\$0	\$98,000,000	\$98,000,000
Total Projected Revenue	\$763,815,138	\$577,165,122	\$1,187,083,020	\$2,528,063,280

#### Notes

- 1. Annually recurring revenue source to be spent in accordance with the Louisiana Constitution, specifically State Law Section 214.5.4(E) and the provisions within paragraph (3).
- 2. Estimate tied to mineral revenue
- 3. GOMESA funds must be disbursed to the applicable states by the end of the federal fiscal year. FY 2018 GOMESA funds are anticipated to be received between April 2018 (4Q18) and September 2018 (1Q19). Because the funds would arrive no earlier than the final quarter of FY 2018, nearly all 2018 GOMESA funding would be expended no earlier than FY 2019. Projects to receive GOMESA funding will be provided in the FY 2019 Annual Plan to ensure that proper clarity is available regarding the exact amount of available GOMESA funding, and also to ensure consistency with the 2017 Master Plan (which will be in effect at the time of receipt of GOMESA funding).
- 4. Represents carry-forward of unexpended funds from prior-year GOMESA payments.
- 5. Represents anticipated Federal reimbursement for CWPPRA projects led by CPRA in which the State is initially incurring more than its 15% cost share during project implementation.
- 6. Supplemental funding to augment construction of eligible projects (specific projects to be determined at a later date).
- 7. Supplemental funding to augment construction of project ME-0018.
- 8. Represents anticipated balance as of FY 2018 of an initial deposit of \$6.75 million of funds from the MOEX settlement.
- $9. \hspace{0.5cm} \hbox{ Used to fund monitoring of constructed Berm to Barrier projects.} \\$
- 10. Represents anticipated Federal reimbursement for CWPPRA and WRDA OM&M activities led by CPRA in which the State is initially incurring more than its cost share during project implementation.
- 11. Represents anticipated reimbursement associated with recovery from past distasters which has been obligated by FEMA.
- 12. CPRA is pursuing FEMA recovery funding through the FEMA appeals process to restore the form and function of the Coastal Barrier Island Resource System (CBRS) units S01-S08 which were lost as a result of Hurricane Katrina. The cumulative cost of this restoration is estimated to be on the order of \$500 million.
- 13. Represents reimbursement of expenditures for CPRA (non-DWH) oil spill response activities.
- 14. Represents funding applied for in December 2016 to fund select Monitoring Data and Interpretations tasks (see Table 4-3).
- 15. Represents salary and other work-in-kind reimbursements for services performed on projects in funding programs listed in the table above.

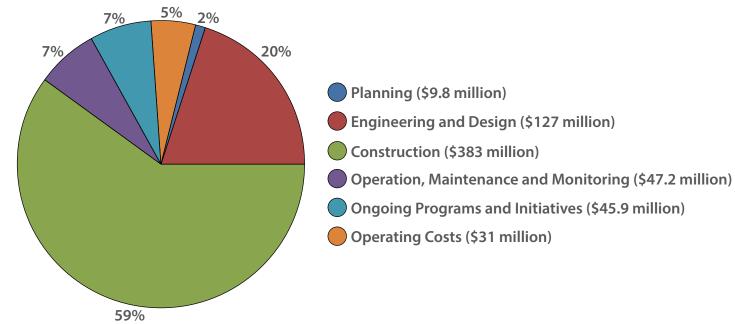
#### ▶ Table ES-2: Projected Three-Year Expenditures¹ (FY 2018 - FY 2020)

Program/Funding Source	FY 2018	FY 2019	FY 2020	Program Total
CWPPRA State Expenditures (not including Surplus expenditures) <sup>2</sup>	\$8,509,289	\$14,095,011	\$13,499,919	\$36,104,219
CWPPRA Federal Expenditures <sup>3</sup>	\$96,384,103	\$75,904,989	\$76,500,081	\$248,789,173
WRDA Project Expenditures (not including Surplus expenditures)	\$0	\$0	\$0	\$0
Surplus Projects and Program Expenditures	\$161,284,403	\$26,000,310	\$7,054,375	\$194,339,088
Community Development Block Grants	\$9,806,680	\$11,680	\$0	\$9,818,360
HSDRRS 30-Year Payback⁴	\$0	\$0	\$98,000,000	\$98,000,000
MOEX Project Expenditures	\$704,687	\$131,250	\$704,687	\$1,540,624
DOTD Interagency Transfer- HNC Deepening Expenditures	\$73,600	\$0	\$0	\$73,600
Capital Outlay Project Expenditures	\$15,560,000	TBD	TBD	\$15,560,000
State-Only Project Expenditures (Non-Surplus)	\$188,184	\$199,864	\$199,864	\$587,912
NRDA Expenditures (Deepwater Horizon)	\$140,820,491	\$38,940,922	\$150,855,241	\$330,616,653
NFWF Expenditures (Deepwater Horizon)	\$54,410,295	\$65,827,227	\$519,239,290	\$639,476,812
Proposed RESTORE Expenditures ( <i>Deepwater Horizon</i> ) (not including Surplus Expenditures)	\$61,718,000	\$48,206,637	\$132,798,175	\$242,722,812
LDNR Mitigation Expenditures <sup>5</sup>	\$500,000	\$500,000	\$500,000	\$1,500,000
LDNR Beneficial Use Expenditures <sup>5</sup>	\$250,000	\$250,000	\$250,000	\$750,000
LDWF Interagency Transfer Expenditures <sup>6</sup>	\$1,000,000	\$0	\$0	\$1,000,000
OM&M- State Expenditures (not including Surplus expenditures)	\$9,126,372	\$8,673,455	\$6,083,374	\$23,883,201
OM&M- Federal Expenditures <sup>7</sup>	\$29,048,815	\$17,423,395	\$15,467,305	\$61,939,515
OM&M- Marine Debris Removal (Partially Reimbused by FEMA) <sup>8</sup>	\$1,640,130	\$0	\$0	\$1,640,130
GOMESA Expenditures <sup>9</sup>	\$21,850,000	TBD	TBD	\$21,850,000
NAS Research Practice Grant Expenditures	\$200,000	\$200,000	\$200,000	\$600,000
Operating Costs (see Tables 4-3 and 4-4)	\$30,990,089	\$36,800,160	\$39,790,392	\$107,580,641
Total Planned Expenditures	\$644,065,138	\$333,164,899	\$1,061,142,703	\$2,038,372,740

#### Notes

- 1. Represents proposed expenditures provided that commensurate level of funding is received.
- 2. Because CWPPRA projects compete for funding annually, CWPPRA expenditures as presented in Appendix B (which include projected expenditures for approved projects only) do not adequately capture likely CWPPRA expenditures in outlying years. The State's estimated CWPPRA expenditures for FY 2019 FY 2020 are therefore based on prior years' expenditures.
- 3. Represents anticipated Federal reimbursement for CWPPRA projects led by CPRA in which the State is initially incurring more than its 15% cost share during project implementation.
- 4. Payback is based on current HSDRRS construction schedule; payback will not commence until completion of HSDRRS construction activities. According to current USACE estimates, payback will commence in September 2019 with an estimated annual payment of \$98 million.
- 5. Supplemental funding to augment construction of eligible projects (specific projects to be determined at a later date).
- ${\it 6.} \quad {\it Supplemental funding to augment construction of project ME-0018}.$
- 7. Represents anticipated Federal reimbursement for CWPPRA and WRDA OM&M activities led by CPRA in which the State is initially incurring more than its cost share during project implementation.
- 8. Represents anticipated reimbursement associated with recovery from past distasters which has been obligated by FEMA.
- 9. FY 2018 GOMESA expenditures include the GOMESA Infrastructure Program (\$14 million) and Adaptive Management expenditures (see Table 4-3). Projects to receive GOMESA funding will be provided in the FY 2019 Annual Plan to ensure that proper clarity is available regarding the exact amount of available funding and also to ensure consistency with the 2017 Master Plan (which will be in effect at the time of receipt of GOMESA funding).

#### ▶ Figure ES-1: Projected FY 2018 Expenditures by Project Phase



#### **Notes**

- Construction includes Beneficial Use (\$1.7 million)
- OM&M includes BIMP (\$2.6 million), Repair/Rehabilitation of Projects (\$759,739), Marine Debris Removal (\$1.6 million)

# TOTAL Expenditures \$644 million





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### Progress to Date: Results on All Fronts

Project Highlights

In addition to forecasting revenues and expenditures for the coming fiscal year and beyond, this Annual Plan chronicles some of CPRA's success in accomplishing Coastal Master Plan goals and projects during the past fiscal year. CPRA oversees planning, engineering, design and construction of an increasing number of protection and restoration projects and is making significant strides in ecosystem restoration to counter one of the biggest environmental disasters in our nation's history. Progress toward achieving a sustainable coastal Louisiana has never been more evident. Some of last year's most notable accomplishments include:

### Caminada Headland Beach and Dune Restoration Project (BA-0143)

With restoration of the final reach on the eastern end of the headlands, CPRA accomplished its largest restoration project to date. Combined with the first increment of the project (BA-0045), more than 13 miles of beach and dune have been restored, stretching from below Port Fourchon to the eastern end adjacent to Caminada Pass. In all, 8.41 million cubic yards of material was dredged from Ship Shoal in federal offshore waters and barged 30 miles to create 1059 acres of protective headlands. Total cost of the two increments was more than \$216 million. With the seaward barrier restored, future plans include sediment supplementation into the marsh area between the beach and Highway One leading to Grand Isle.

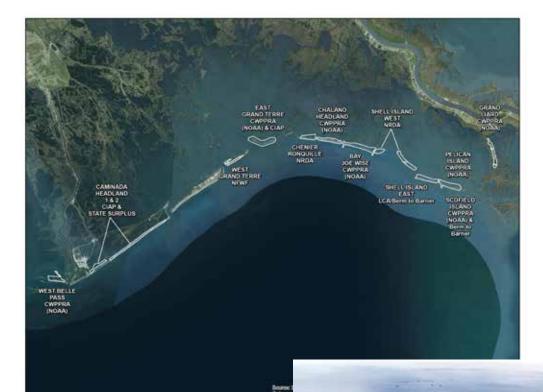


This aerial photograph shows the Caminada Headland beach and dune extending eastward towards Grand Isle at the top of the photo. At a combined cost of more than \$216 million, this restoration project is the largest in CPRA history. The declining wetlands behind the beach will be addressed in a future CWPPRA-funded project.

To restore the 13 miles of headland, CPRA used more than 8.4 million cubic yards of sand to create 1059 acres of beach and dune, roughly an area equivalent of almost 1047 football fields.

#### Shell Island West - NRDA (BA-0111)

The latest accomplishment in restoring our barrier islands chain is actually an extension of an earlier restoration, doubling Shell Island in size after resurrecting it from open water just three years earlier. That earlier project built a two mile island with a back marsh; this latest project added another 1.5 miles and 600 acres of beach, dune and marsh. An additional 1.2 miles and 133 acres were also added to a non-consecutive section to the west.



Barrier islands are our first line of defense against damaging storm surge. CPRA has been restoring these islands and headlands in a substantial and more sustainable manner.

Shell Island June 30, 2016

The extension of Shell Island is seen here as the beach and dune are extended to the west using sand dredged from the Mississippi River and pipelined more than 20 miles to the site. The back marsh is also being extended to the west.

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

A series of projects has been building land along a permitted corridor stretching westward from the Mississippi River below Belle Chasse and Jean Lafitte. The original Bayou Dupont project was the first to build land using sediment dredged from the Mississippi River. This latest project created 138 acres along with 1.8 miles of sediment-capturing terraces.



All of this brown "dirt" is actually sediment dredged from the bottom of the nearby Mississippi River and pumped through more than 13 miles of pipeline to its final destination, turning open water areas into land and marsh.

This and adjacent projects along the "Long Distance Sediment Pipeline" corridor have built more than 1,800 acres of land, roughly the equivalent of 1,648 football fields, all using material dredged from the Mississippi River.

### Mississippi River Reintroduction into Bayou Lafourche (BA-0161)

This suite of projects is revitalizing historic Bayou Lafourche, a distributary of the Mississippi that was cut off from the river's flow, then reconnected via water pumped over the levee at Donaldsonville. However, a railroad bridge was restricting adequate flow until \$4 million in CPRA funding helped open the bottleneck by rebuilding the bridge into an open span support structure.

Other components of the Bayou Lafourche project include doubling the pump capacity, dredging the bayou, and constructing a salinity control structure at Lockport.



Culverts under the old railroad bridge restricted the amount of water that could be pumped from the Mississippi River at Donaldsonville. CPRA helped fund the construction of a new open span bridge that now allows the pumps (also funded by CPRA) to send more fresh water down Bayou Lafourche.

When conditions make it necessary, this barge gate at Lockport can be closed to prevent the progression of saltwater up Bayou Lafourche.

## Hydrologic Restoration of the Amite River Diversion Canal (PO-0142)

Too much water can be a bad thing, even for swamps and wetlands. Water sitting for too long a time can drown a marsh or even a hardwood swamp. This was the case with portions of the 122,000 acre Maurepas Swamp Wildlife Management Area. The north spoil bank of the Amite River Diversion Canal was acting as a dam, not allowing the swamp to drain the way healthy swamp areas periodically do. Three openings were dredged to allow natural drainage, to be followed with the planting of one million cypress seedlings in areas that were once too waterlogged for natural propagation.



The water line is evident at about the 4-foot height of these tree trunks in the Maurepas Swamp. While other plant species can thrive in a constant water environment, cypress tree seedlings cannot.

Channels dredged through the spoil bank levee not only help drain the swamp, but also allows the periodic flow of fresh river water and nutrients into the swamp basin.

#### Living Shoreline Demonstration Project (PO-0148)

Oysters are more than a delicacy, they can be a natural form of coastal protection against damaging storm surge and wave action. Restoring our depleted oyster reefs—once massive along our coast—is a difficult but worthwhile pursuit. This project is using 9,000 manmade structures to create 3.1 miles of shoreline protection in St. Bernard Parish. Four different artificial structures are being used to test whether one type is better than the others at inducing oysters to attach, grow and accumulate into a sustainable reef.



The calming effect of even a small foreshore barrier is evident as the energy of the choppy water is dissipated before reaching the marsh edge.

Workers place one of the four types of artificial reef structures designed to attenuate wave action, increase biodiversity along with oyster development, and allow sediment accretion between the shore and the reef. In April 2016, the federal court overseeing the 2010 *Deepwater Horizon* oil spill litigation approved a settlement agreement and consent decree resolving civil claims against BP arising from the oil spill. The global settlement is worth more than \$20 billion. Over the next 15 years, Louisiana will receive a minimum of \$8.7 billion for claims related to natural resource damages under the Oil Pollution Act, Clean Water Act civil penalties, and the State's various economic claims.

In addition to the consent decree, which provides the details of the settlement, the *Deepwater Horizon* Natural Resource Damage Assessment (NRDA) Trustees prepared a Programmatic Damage Assessment and Restoration Plan and Programmatic Environmental Impact Statement (PDARP/PEIS). This document will govern the use of the up to \$8.7 billion in NRDA settlement funds, which includes at least \$5 billion specifically for restoring damages to natural resources in Louisiana.

#### Details of the Consent Decree

Under the terms of the consent decree, BP must pay the following:

- Up to \$8.7 billion for natural resource damages (includes \$1 billion in early restoration projects);
- \$5.5 billion (plus interest) for Clean Water Act civil penalties (subject to the RESTORE Act); and
- \$600 million for other claims.

Additionally, BP entered into a separate agreement to pay \$4.9 billion to the five Gulf States and up to a total of \$1 billion to several hundred local governmental bodies to settle claims for economic damages suffered as a result of the spill.

A breakdown of Louisiana's share of these funds is as follows:

- A minimum of \$5 billion for natural resource damages (includes \$368 million previously allocated for early restoration projects);
- A minimum of approximately \$787 million for Clean Water Act civil penalties (subject to the RESTORE Act); and
- \$1 billion for state economic damages.

#### Living Shoreline Demonstration Project (PO-0148)

The PDARP/PEIS includes an ecosystem-level assessment of impacts to the Gulf's natural resources, a proposed programmatic restoration plan, and an examination of the environmental impacts of various restoration alternatives. The document proposes appropriate types of restoration and provides guidance for identifying, evaluating, and selecting future restoration projects to be implemented with the approximately \$5 billion allocated to Louisiana for natural resource damages.

An overview of the Louisiana allocation by major funding category is provided in the table below. Before any of these NRDA settlement funds can be spent on restoration projects, the Louisiana and federal trustees charged with restoring damages to natural resources caused by the *Deepwater Horizon* oil spill must develop project-specific restoration plans for public review and comment.

An overview of the Louisiana allocation by major funding category is provided in the table below:

MAJOR RESTORATION CATEGORIES	AMOUNT ALLOCATED TO LA				
1. Restore & Conserve Habitat					
Wetlands, Coastal, & Nearshore	\$4,009,062,700				
Habitat Projects – Federally Managed Lands	\$50,000,000				
Early Restoration	\$259,625,700				
2. Restore Water Quality					
Nutrient Reduction (Nonpoint Source)	\$20,000,000				
3. Replenish & Protect Living Coastal & Marine Resources					
Sea Turtles	\$10,000,000				
Submerged Aquatic Vegetation	\$22,000,000				
Marine Mammals	\$50,000,000				
Birds	\$148,500,000				
Early Restoration - Birds	\$71,937,300				
Oysters	\$26,000,000				
Early Restoration - Oysters	\$14,874,300				
4. Provide & Enhance Recreational Opportunities					
Provide & Enhance Recreational Opportunities	\$38,000,000				
Early Restoration – Recreational Opportunities	\$22,000,000				
5. Monitoring, Adaptive Management, Administrative Oversight					
Monitoring & Adaptive Management	\$225,000,000				
Administration Oversight & Comp. Planning	\$33,000,000				
MINIMUM NRD FUNDING ALLOCATED TO LA	\$5,000,000,000				

Upon finalization of the draft PDARP/PEIS and Court approval of the consent decree, project-specific restoration plans will be developed for public review and comment.

#### **Combined Settlements**

This settlement, combined with prior *Deepwater Horizon*-related settlements, translates into approximately \$8.7 billion over 15 years for Louisiana coastal restoration. Approval of the consent decree and finalization of the PDARP/PEIS will allow the state to move forward with identifying and implementing critical restoration and protection projects, providing approximately \$580 million annually for the coastal program.

In anticipation of receiving oil spill dollars, the CPRA began public discussions related to comprehensive oil spill restoration planning in 2013. Planning efforts and discussions continue to be refined as additional information becomes available. Understanding that each source of oil spill funding is subject to various criteria and public approval processes, the CPRA is looking at oil spill funding sources holistically in an effort to maximize the use of these dollars.



For decades, sediment diversion projects have been a staple of every coastal plan that has been published. The question is rarely whether we should build them, but more so how and where to build them, how to pay for them, and how to operate them once built. That all has changed over the past 5 years since the 2012 Coastal Master Plan made it an absolute priority to develop and implement river diversion projects that focus on sediment capture and land building, and since the recent Deepwater Horizon Oil Spill settlement has made funding more certain.

CPRA and United States Army Corps of Engineers (USACE) have worked together since the 2012 Coastal Master Plan on the Mississippi River Hydrodynamic and Delta Management Study to develop cutting edge technical models to better understand and predict the effects of using river resources for large-scale restoration projects such as Mississippi River sediment diversions on the river as well as adjacent basins. These models have led to improvements in our understanding of river and estuarine dynamics and to the development of river and basin wide models to support project implementation in Barataria and Breton basins.

The 2012 Coastal Master Plan called for eight sediment diversions along the Mississippi River. Over the past several years, CPRA has conducted in-depth analyses on the Lower Breton (50,000 cfs), Lower Barataria (50,000 cfs), Mid Breton (5,000 cfs), and Mid Barataria (50,000 cfs) diversion projects in order to determine which projects should be prioritized for engineering and design and construction. As such, each project was modeled to predict project effects on variables such as land building, salinity, sediment transport, nutrients, and water levels. As part of this analysis, the state also considered innovative marsh creation projects that could be implemented in conjunction with sediment diversion projects in order to enhance sediment capture and build more land.

This modeling effort helped inform CPRA's decision in fall 2015 to recommend that the Mid Breton and Mid Barataria diversions move forward to preliminary engineering and design. The purpose of these projects will be to divert sediment-laden water from the Mississippi River to the adjacent basins. By re-establishing a connection between the Mississippi River and the Basin, the project will restore historic deltaic sediment deposition to build, maintain, and sustain critical coastal lands.

Over the next several years, CPRA will work to optimize operations, formulate the final project design, and apply for appropriate construction permits. More specifically, work on the Mid Barataria Environmental Statement (EIS) will begin during the spring of 2017 and engineering and design work will commence later in 2017. An EIS is a document required by the National Environmental Policy Act (NEPA) to evaluate the impact on human environments for a proposed action. As part of the EIS process, significant public engagement will occur and the document will clearly and transparently describe the environmental effects of the proposed Mid Barataria Sediment Diversion. This action is the next step in the state's expedited plans to implement projects that will protect and restore coastal Louisiana. The process will include public scoping meetings, development of a draft EIS which will be released for public comment, and the development of a final EIS which will undergo additional public comment and will be reviewed by the USACE prior to commencement of construction.

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In addition to the formal required engagement in the permitting process, CPRA is committed to providing numerous opportunities for public engagement:

- Visit with CPRA Staff Members during our recurring visits to coastal Louisiana.
   For a schedule of upcoming visits, please visit http://coastal.la.gov/calendar/
- Attend a CPRA Board Meeting to engage with CPRA leadership (schedule can be found at coastal.la.gov/calendar)
- Visit coastal.la.gov to learn more about this project and other coastal restoration efforts
- Email us at outreach@la.gov to request a meeting
- Follow CPRA on Social Media for relevant updates

The funds utilized to conduct the studies described and the future engineering and permitting work was made available through criminal settlements associated with the *Deepwater Horizon* oil spill. The settlements included approximately \$1.27 billion to be directed to the National Fish and Wildlife Foundation (NFWF) specifically dedicated for barrier island and diversion projects in Louisiana.



General Locations of the Mid-Barataria and Mid-Breton Diversion Projects



Mid-Barataria Sediment Diversion Project Layout



Sediment Diversion Conceptual Design

Although not due to the Louisiana Legislature until April 2017, development of the 2017 Coastal Master Plan is underway with the draft plan scheduled to be delivered in January 2017.

The 2017 Coastal Master Plan will be the third Coastal Master Plan prepared by CPRA for approval by the Louisiana State Legislature. This process occurs every five years, and with the development of each plan comes a more refined, improved path forward to create a sustainable coastal Louisiana landscape.

The Coastal Master Plan provides important information to Louisiana's coastal citizens, providing information for them to protect their families, manage businesses, and plan for the future. The 2017 Coastal Master Plan will continue to move the people of Louisiana forward in pursuit of our state's shared protection and restoration goals of reducing coastal storm surge flood risk, promoting sustainable ecosystems, providing habitats for a variety of commercial and recreational activities coast-wide, strengthening communities, and supporting regionally and nationally important business and industry.

As CPRA carries forth the planning efforts detailed in the 2007 and 2012 Coastal Master Plans, the 2017 effort will continue to build on the past and establish clear priorities for the future through an integrated and comprehensive approach. As was the case with previous plans, the 2017 Coastal Master Plan will be developed with world-class science and engineering expertise and extensive engagement and input from citizens and stakeholders in an effort to focus our resources wisely.

Five key priorities were recognized in the 2017 Coastal Master Plan that place an emphasis on communities, focus on flood risk and resilience, incorporate new project ideas and information, improve upon the models and analysis based on the best available science, and expand partnerships and collaboration. The 2017 plan provides a list of projects that build or maintain land and reduce flood risks that will be studied, planned, designed, constructed, operated, and monitored. CPRA appreciates the importance of understanding the cost of continued land loss as well as potential effects of protection and restoration project actions on local communities and businesses, as well as our regional and national economy. That is why information to help us better understand the effects that projects actions will have – for example, on our traditional fishing, agricultural, and oil and gas industry related communities – have been quantified and included in our 2017 analysis.

# **Emphasizing Communities**

Coastal restoration and protection goals ultimately intend to support the people who live and work in coastal Louisiana. The 2017 Coastal Master Plan will place a greater focus on understanding continued land loss as well as potential effects of protection and restoration project actions on local communities and businesses, as well as our regional and national economy. That's why we created Appendix B – People in the Landscape, which reviews the Draft 2017 Coastal Master Plan results as they relate to Louisiana's coastal residents. The appendix discusses issues of special relevance to people who live and work in south Louisiana, with a particular emphasis on explaining the implications of rising sea levels.

The appendix includes discussions of land loss rates in a future without action, insurance issues, population shifts, and what the proposed projects in the Draft Master Plan might deliver to residents, in terms of land building as well as reductions in flood risk. The appendix also provides an overview of CPRA's Flood Risk and Resilience Program, as well as information on new economic opportunities driven by the coast. The appendix ends with a summary of coastal Louisiana's significance to the nation. This information can be used by residents, local parish leaders, and others looking for a non-technical summary of master plan themes and findings.

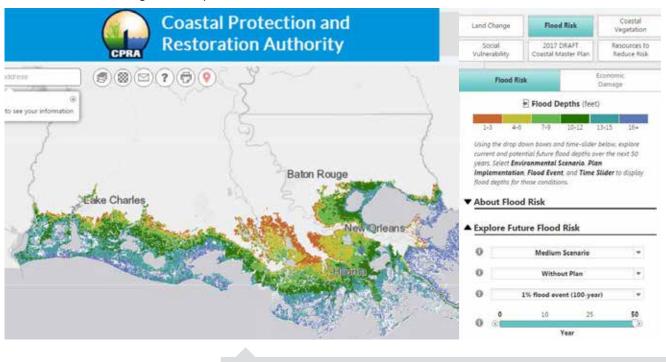
# Focusing on Flood Risk Reduction and Resilience

In an effort to use all of the tools available to reduce communities' flood risk, we explored different types of nonstructural measures and refined policies to help communities become more resilient.

The 2017 Coastal Master Plan presents a more detailed path forward for nonstructural project recommendations, implementation procedures, and policy recommendations. In addition, CPRA also expanded outreach through the creation of a new, interactive web-based viewer to help residents better understand their flood risk now and in the future.

This innovative online tool provides residents with access to the state's best information about how Louisiana's coast may change in the future, as well as resources to make communities and properties more resilient.

This information can be used by state agencies, coastal stakeholders, and community advocates in coastal planning and hazard mitigation efforts. In addition, a variety of resources are provided to enable homeowners and business owners to take steps towards reducing their flood risk. You can visit the online tool to explore your own community through the following link: http://cims.coastal. la.gov/masterplan.



Learn more about how coastal flood risk impacts communities today and in the future, as well as how to make your community safer and more resilient. The Master Plan Data Viewer displays the results from CPRA's 2017 Coastal Master Plan and provides resources to reduce flood risk. This information is for coastal planning purposes, and is not appropriate for site-specific decision making.

Access the Master Plan Data Viewer at http://cims.coastal.louisiana.gov/masterplan.

## Incorporating New Project Ideas and Information

The 2017 Coastal Master Plan considers an array of new project ideas not modeled in 2012; these new project ideas were submitted from across the coast by stakeholders and members of the public. Also, a wider range of ecosystem outcomes is included, such as additional fisheries and wildlife species.

To ensure the latest project ideas are included for consideration in the 2017 Coastal Master Plan, CPRA established the New Project Development Program. The program provided opportunities (two solicitation periods; 140 days total) for new projects to be proposed by individuals and organizations, including citizens, academia, parishes, elected officials, agencies, non-government organizations (NGOs), landowners, and businesses/industries. New projects could be proposed that build and/or sustain land, provide significant flood risk reduction, address radical shifts in the coastal landscape, or confront future uncertainty challenges.

Each project submission was screened using the following criteria: size threshold, geographic area, adequate information, consistency with Master Plan objectives and principles, and duplicative effects. Overall, the CPRA received 155 project ideas from 42 project sponsors. Based on this process and other efforts, 148 candidate projects were identified for consideration in the 2017 Coastal Master Plan.

## Improving Models Based on Best Available Science

The 2012 Coastal Master Plan was founded on state-of-the-art science and analysis, and the 2017 effort builds upon this further. The improved modeling process provided a deeper understanding of our coastal environment today, as well as the changes that are expected over the next 50 years. In an effort to make the modeling process as transparent and accessible to the public as possible, CPRA posted technical modeling reports in draft form to its website throughout the master plan development process. The CPRA website also provides a full list of technical reports documenting the models used to evaluate projects and alternatives for the 2017 Coastal Master Plan. Additionally, CPRA has posted other resources online related to the development of the plan, such as project definition, planning tool, and modeling appendices, an executive summary, webinar recordings and PowerPoint slides detailing the suite of modeling tools that were developed to support the 2017 Coastal Master Plan.

Based on the New Project Development Program and the improved modeling results, 76 restoration projects are selected in the 2017 Draft Coastal Master Plan along with 12 structural and 32 nonstructural risk reduction projects. The 2017 Coastal Master Plan dedicates more than \$17.7 billion to marsh creation using dredged material, \$5 billion to sediment diversions, and more than \$2 billion to other types of restoration projects that benefit 800 square miles of coast. The plan also dedicates \$19 billion to structural and \$6 billion to nonstructural risk reduction projects that, by the end of 50 years, would reduce expected annual damages from flooding by \$8.3 billion.

# **Expanding Partnerships and Collaboration**

Because a successful plan is built on local knowledge, input from a diverse range of coastal stakeholders and extensive dialogue with the public, the many partnerships developed for the 2012 Coastal Master Plan continued for the 2017 Coastal Master Plan. These partnerships included a coastal stakeholder advisory group — the Framework Development Team — as well as focus groups that represented our communities, landowners, recreational interests, and commercial activities (fisheries, navigation, and energy and industry). Throughout the process,

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these stakeholder and focus groups have met to review and discuss key master plan developments, been engaged with ongoing sediment diversion planning, and provided valuable feedback and input to help guide the process with regard to their respective interest groups. CPRA also coordinated more closely with key groups such as floodplain managers, hazard mitigation specialists, other state agencies, and NGOs. Furthermore, CPRA reached out to the public in new ways to better share information related to our changing landscape, communities' flood risk, and the solutions to create a more resilient and sustainable coast.

#### Learn More and Get Involved

Want to learn more about the 2017 Coastal Master Plan? The team at CPRA is prepared to present at your next community meeting and answer any questions that individuals in your area might have about the 2017 Coastal Master Plan and how it will affect the place you call home. Simply email us at masterplan@la.gov with the subject line: "Community Meeting Presentation" to schedule a presentation. In addition, stay tuned to our calendar of events and follow us on social media to learn about ways to get involved and voice your thoughts. You can also visit our website to learn more about the 2017 Coastal Master Plan: http://coastal.la.gov/acommon-vision/2017-master-plan-update.



# ▶ Table 2-1: Projects Scheduled to be in Construction in FY 2017

rable 2-1. Projects 3cheduled to be in construction in 11 2017									
Project ID	Project Name	Construction Start Date <sup>1</sup>	Construction Finish Date	Total Project Estimate					
CWPPRA Phas	e II Projects								
BA-0027-C	Barataria Basin Landbridge Shoreline Protection, Phase 3-CU7 $\&8$	3-Jun-15	26-Jan-17	\$26,351,988					
BA-0048	Bayou Dupont Marsh and Ridge Creation Project	11-Jun-13	5-Jan-17	\$38,324,646					
BA-0164	Bayou Dupont Sediment Delivery - Marsh Creation #3 and Terracing	15-Jan-16	31-May-17	\$18,733,494					
BS-0016	South Lake Lery Shoreline and Marsh Restoration	05-Sep-13	15-Aug-17	\$33,716,987					
CS-0054	Cameron-Creole Watershed Grand Bayou Marsh Creation	01-May-17	15-Aug-18	\$24,655,612					
CS-0059	Oyster Bayou Marsh Creation and Terracing	30-Jun-16	31-Aug-17	\$30,866,713					
ME-0018	Rockefeller Refuge Gulf Shoreline Stabilization	17-Apr-17	13-Sep-18	\$35,426,478					
ME-0020	South Grand Chenier Marsh Creation Project	03-Mar-17	17-Aug-18	\$23,873,346					
ME-0021	Grand Lake Shoreline Protection-Tebo Point	17-May-16	20-Jul-17	\$11,305,616					
PO-0104	Bayou Bonfouca Marsh Creation	28-Apr-16	31-Jan-18	\$29,273,984					
TE-0072	Lost Lake Marsh Creation and Hydrologic Restoration	07-Sep-16	18-Jun-18	\$35,876,728					
TV-0063	Cole's Bayou Marsh Restoration	20-Jun-17	19-Sep-18	\$24,930,426					
CIAP Projects									
BA-0043-EB	Mississippi River Long Distance Sediment Pipeline <sup>2</sup>	17-Sep-13	5-Jan-17	\$66,310,461					
BA-0161	Mississippi River Water Reintroduction into Bayou Lafourche - BLFWD	16-Jun-15	15-Feb-17	\$26,691,418					
MR-0016-SSPM	Mississippi River Delta Strategic Planning- SSPM Expansion	15-Sep-14	11-Apr-17	\$13,520,000					
PO-0148	Living Shoreline <sup>2</sup>	02-Oct-15	22-May-17	\$15,287,311					
State-Only Pro	pjects								
BA-0075-1	Jean Lafitte Tidal Protection	19-Feb-14	12-Dec-18	\$29,403,973					
BA-0075-2	Rosethorne Tidal Protection	16-Aug-17	28-May-19	\$22,950,000					
BA-0085	St. Charles West Bank Hurricane Protection Levee	01-Nov-13	1-Sep-22	\$14,500,000					
BA-0169	Kraemer Bayou Boeuf Levee Lift	26-Apr-17	30-Apr-19	\$1,200,000					
PO-0142	Hydrologic Restoration of the Amite Diversion Canal	19-Apr-16	19-Jan-17	\$3,592,100					
PO-0170	Violet Canal North Levee Alignment	31-Jul-17	31-Aug-18	\$1,164,000					
TE-0064	Morganza to the Gulf	30-Nov-05	1-Oct-19	\$177,003,835					
TE-0065-SP	Larose to Golden Meadow - Larose Sheetpile	26-Jan-15	30-Jun-18	\$8,000,000					
TE-0116	St. Mary Backwater Flooding	27-Mar-17	20-Feb-19	\$5,000,000					
TV-0055	Morgan City/St. Mary Flood Protection	20-Oct-16	12-Mar-18	\$10,900,000					

# ▶ Table 2-1: Projects Scheduled to be in Construction in FY 2017

Project ID	Project Name	Construction Start Date <sup>1</sup>	Construction Finish Date	Total Project Estimate		
CDBG Project	ts					
TE-0063	Falgout Canal Road Levee	05-Aug-15	15-May-17	\$24,803,191		
<b>HSDRRS</b> Proj	ects					
BA-0066	West Bank and Vicinity	27-Mar-07	29-Jun-18	\$4,304,525,784		
BA-0067	New Orleans to Venice	21-Nov-11	11-Dec-23	\$1,301,523,760		
BA-0109	HSDRRS Mitigation- WBV <sup>3</sup>	16-Jun-16	15-Jul-19	\$126,000,000		
BA-0154	Previously Authorized Mitigation WBV <sup>3</sup>	04-Aug-14	31-Oct-18	\$11,000,000		
PO-0057	SELA- Overall	18-Feb-09	12-Oct-20	\$1,170,974,586		
PO-0060	Permanent Canal Closures and Pump Stations <sup>4</sup>	01-Jan-13	30-Jun-18	\$614,800,000		
PO-0063	Lake Pontchartrain and Vicinity	31-Oct-07	10-Apr-17	\$3,852,000,000		
PO-0121	HSDRRS Mitigation- LPV⁴	23-Jul-15	3-Sep-19	\$85,000,000		
PO-0146	LPV Mitigation Project, Manchac WMA Marsh Creation <sup>4</sup>	27-May-11	\$40,989,172			
NRDA Early R	estoration Projects					
BA-0111	Shell Island West- NRDA	31-Mar-15	5-May-17	\$101,307,860		
TE-0100	NRDA Caillou Lake Headlands	22-Jul-15	10-Aug-18	\$118,340,766		
NFWF Projec	ts					
BA-0109       HSDRRS Mitigation-WBV³       16-Jun-16       15-Jul-19       \$126,000,000         BA-0154       Previously Authorized Mitigation WBV³       04-Aug-14       31-Oct-18       \$11,000,00         PO-0057       SELA- Overall       18-Feb-09       12-Oct-20       \$1,170,974,58         PO-0060       Permanent Canal Closures and Pump Stations⁴       01-Jan-13       30-Jun-18       \$614,800,00         PO-0063       Lake Pontchartrain and Vicinity       31-Oct-07       10-Apr-17       \$3,852,000,00         PO-0121       HSDRRS Mitigation- LPV⁴       23-Jul-15       3-Sep-19       \$85,000,00         PO-0146       LPV Mitigation Project, Manchac WMA Marsh Creation⁴       27-May-11       1-Sep-16       \$40,989,17         NRDA Early Restoration Projects       8A-0111       Shell Island West- NRDA       31-Mar-15       5-May-17       \$101,307,86         TE-0100       NRDA Caillou Lake Headlands       22-Jul-15       10-Aug-18       \$118,340,76         NFWF Projects         BA-0143       Caminada Headland Beach and Dune Restoration Increment²       28-May-14       26-Oct-16       \$147,063,58         WRDA Projects			\$147,063,587			
WRDA Projects						
BA-0191	Spanish Pass Ridge and Marsh Restoration	15-Jul-16	30-May-18	\$18,111,516		

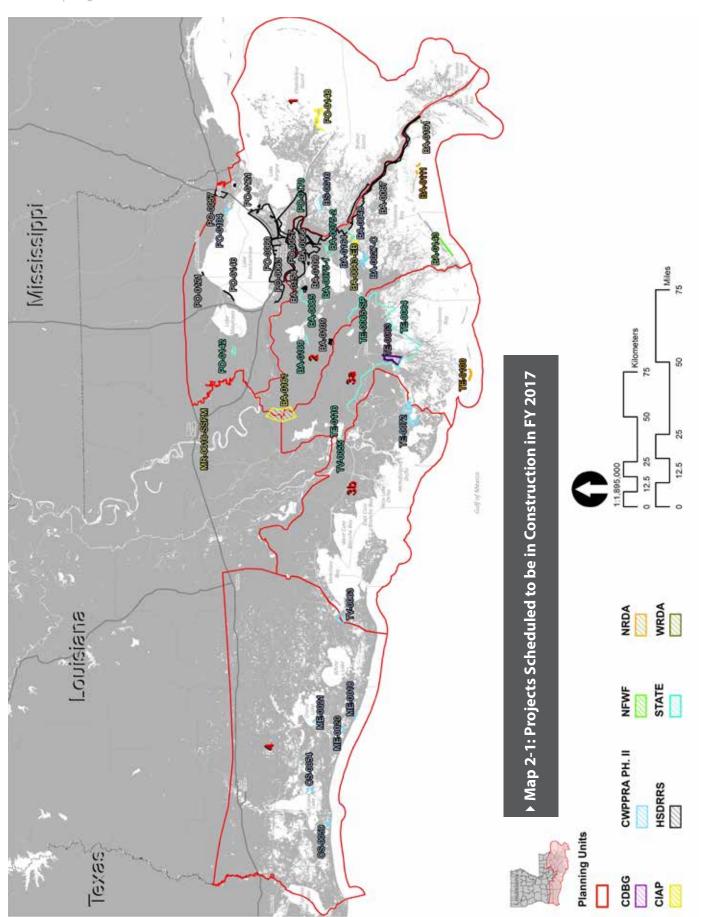
#### Note:

<sup>1.</sup> Construction start date is defined as projected date for advertisement of construction bid notice; actual date of mobilization may vary.

<sup>2.</sup> Project partially funded with Surplus funds.

<sup>3.</sup> Project cost included in total cost for BA-0066.

<sup>4.</sup> Project cost included in total cost for PO-0063.



# ▶ Table 2-2: Projects Scheduled to Complete Construction in FY 2017

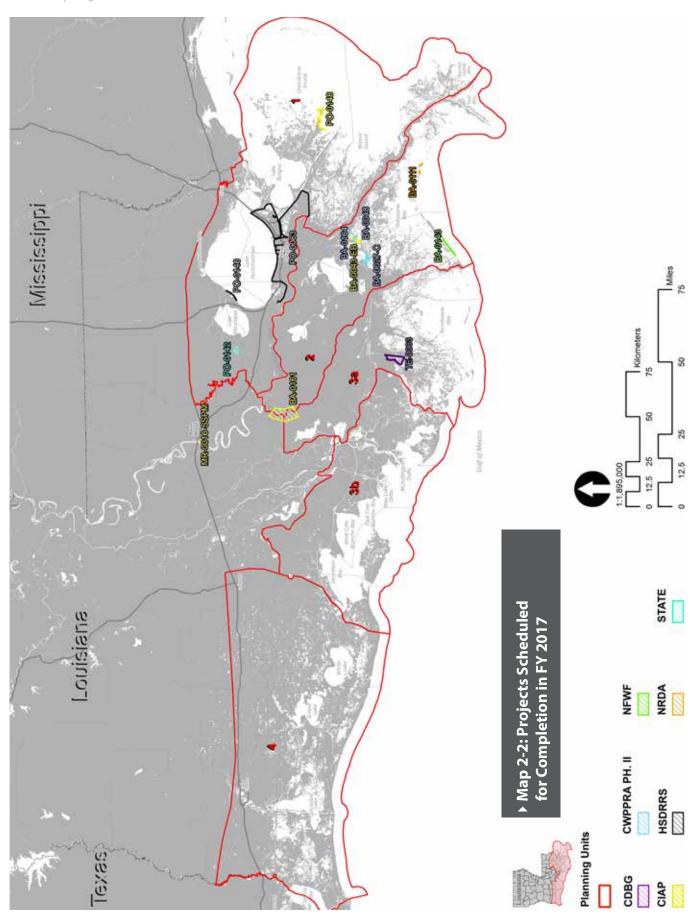
Project ID	Project Name	Construction Start Date <sup>1</sup>	Construction Finish Date	Total Project Estimate				
CWPPRA Phas	e II Projects							
BA-0027-C	Barataria Basin Landbridge Shoreline Protection, Phase 3-CU7 & 8	3-Jun-15	26-Jan-17	\$26,351,988				
BA-0048	Bayou Dupont Marsh and Ridge Creation Project	11-Jun-13	5-Jan-17	\$38,324,646				
BA-0164	Bayou Dupont Sediment Delivery - Marsh Creation #3 and Terracing	15-Jan-16	31-May-17	\$18,733,494				
CIAP Projects								
BA-0043-EB	Mississippi River Long Distance Sediment Pipeline2	17-Sep-13	5-Jan-17	\$66,310,461				
BA-0161	Mississippi River Water Reintroduction into Bayou Lafourche - BLFWD	16-Jun-15						
MR-0016-SSPM	Mississippi River Delta Strategic Planning- SSPM Expansion	15-Sep-14	11-Apr-17	\$13,520,000				
PO-0148	Living Shoreline	02-Oct-15	22-May-17	\$15,287,311				
State-Only Pro	pjects							
PO-0142	Hydrologic Restoration of the Amite Diversion Canal	19-Apr-16	19-Jan-17	\$3,592,100				
CDBG Projects								
TE-0063	TE-0063 Falgout Canal Road Levee		15-May-17	\$24,803,191				
<b>HSDRRS</b> Proje	cts							
PO-0063	Lake Pontchartrain and Vicinity	31-Oct-07	31-Oct-07 10-Apr-17					
PO-0146	LPV Mitigation Project, Manchac WMA Marsh Creation <sup>2</sup>	27-May-11	1-Sep-16	\$40,989,172				
NRDA Early Re	estoration Projects							
BA-0111	A-0111 Shell Island West- NRDA		5-May-17	\$101,307,860				
NFWF Project	NFWF Projects							
BA-0143	Caminada Headland Beach and Dune Restoration Increment 2	28-May-14	26-Oct-16	\$147,063,587				
Notes								

#### Note:

<sup>1.</sup> Construction start date is defined as projected date for advertisement of construction bid notice; actual date of mobilization may vary.

<sup>2.</sup> Project cost included in total cost for P0-0063

Section 2 | Progress to Date: Results on All Fronts



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# Section 3

# FY 2018 Implementation Plan: More Projects, More Action, More Results

This section presents an implementation plan that describes the state's proposed investment in coastal restoration and protection during FY 2018 (July 1, 2017, through June 30, 2018). Included are all of the coastal protection and restoration projects in which the state will participate. Projected schedules and budgets are estimates based on the most recent available information.

Project Status Summaries

This implementation plan presents the status of state coastal projects according to the four phases traditionally used to track projects: 1) planning; 2) design; 3) construction; and 4) operation, maintenance, and monitoring. Below are summaries of project status by phase; Appendices A and B provide additional details about the projects. The current status of individual projects is presented by authorizing program in the project schedules in the Coastal Program Details section. Readers are referred to the state's coastal website (http://coastal.la.gov/) for additional details about specific projects. Regional maps of projects in planning, design, and/or construction in FY 2018 are presented in Figures 3-1 through 3-3.

## **Projects in Planning**

There are 3 projects in the planning phase in FY 2018, including one restoration project, one navigation project, and one integrated protection and restoration project. These projects, together with other non-project planning initiatives, represent a total state investment of \$9.8 million in FY 2018, and will proceed to design and construction according to their authorizing program as discussed in the Coastal Program Details section.

# Projects in Design

There are 42 projects in design for FY 2018, including three protection projects and 39 restoration projects. These projects represent a total state investment of \$127 million in FY 2018. The path these projects will take to construction varies according to the authorizing program as described in the Coastal Program Details section.

# **Projects Under Construction**

There are 30 projects that will begin or continue construction in FY 2018, including 15 protection projects and 15 restoration projects. These projects represent a total state investment of \$383 million in FY 2018, and nine of these projects are projected to complete construction in FY 2018. Table 3-1 presents additional information about projects set for construction in FY 2018, and Figure 3-4 provides a map with the locations of these projects.

# Constructed Projects in Operation, Maintenance, and Monitoring

The CPRA will expend approximately \$39 million (including federal match dollars) in FY 2018 on operation, maintenance, and monitoring (OM&M). OM&M expenditures in FY 2018 will cover the operation and maintenance of 143 projects and monitoring of 109 projects. OM&M expenditures also include approximately \$9 million (in state and federal funds) for monitoring coast-wide conditions using CRMS-Wetlands (http://www.lacoast.gov/crms2/Home.aspx). Finally, the state will expend approximately \$1.6 million in FY 2018 to engage in marine debris removal in offshore areas. These expenditures are reimbursable by the Federal Emergency Management Agency (FEMA). Figure 3-5 provides a map with locations of all projects with OM&M expenditures in FY 2018. Project-specific OM&M expenditures are presented in Appendix B. The Barrier Island Status Report (Appendix C) is available online for review (www.coastal.la.gov). The Operating Plans for the Caernarvon and Davis Pond diversions during calendar year 2017 are referenced in Appendix D.

# Ongoing Programs and Initiatives

The state operates six ongoing programs. These efforts provide supporting research, financial assistance, additional project benefits or educational support for our protection and restoration program.

CPRA is seeking approval this legislative session to utilize outcome based performance contracts for the purposes of marsh creation. If approved, CPRA would be able to utilize a competitive selection process to award full-delivery contracts to finance, permit, engineer, construct, and monitor marsh creation projects. The contractor would receive payment only once established success criteria are met. Payment terms could extend for numerous years after the project success has been determined. Outcome based performance contracts shifts project risks onto the contractor and allows CPRA to utilize future revenues to construct projects now. Initial pilot projects would be authorized under the proposed legislation and could utilize funding expected to be awarded in FY 2018 and beyond. If approved, CPRA would initiate outcome based performance contracting as early as FY 2018.

The 2017 Coastal Master Plan recommends 32 nonstructural project areas for nonstructural risk reduction measures, addressing flood risk for over 26,000 structures at a cost of \$6 billion. All nonstructural measures are considered voluntary and may include non-residential floodproofing, residential elevation, or residential acquisition. To assist in the development and implementation of this program, in 2014 CPRA allocated \$2 million in Surplus funding for Nonstructural Program Development, with the objective of developing a coordinated strategy for implementing nonstructural projects identified in the Master Plan for coastal communities. CPRA will continue its nonstructural program development in FY 2018 to ensure that the Master Plan's goal of a robust Flood Risk and Resilience Program to implement recommended projects is realized as additional funding becomes available.

## Adaptive Management

The Coastal Master Plan process recognizes the need to quickly implement large scale projects within an extremely dynamic environment. In so doing we must establish and maintain a robust adaptive management program that will allow us to modify constructed projects and inform the development of future projects.

Future conditions of coastal Louisiana are uncertain, due to the dynamics of riverine and marine processes, storm events, climate change, population growth, economic activity, and ongoing human reliance on the natural resources the coast provides. Managing such a complex system in which the natural and socioeconomic systems are highly integrated is inherently difficult. In addition, deltaic environments are uniquely challenged due to the interdependence and delicate balance of water, land and economic systems and future uncertainties regarding the magnitude and rate of climate change impacts. Adaptive management encourages the integrated and flexible approach to land and water management that considers risk and uncertainty. It promotes solutions that are sustainable even if conditions change by providing a mechanism for robust decision making. Connecting short-term investments with long-term challenges and the selection of action paths that allow for maximum flexibility of future decisions are two of the key concepts of adaptive management. Historically, as human developments evolved in deltas, decisions were made that cannot be easily changed (such as the location of New Orleans). This results in some "path dependency", meaning that future options are limited or constrained by past decisions. However, learning from past decisions and understanding the range of possible future scenarios allows us to avoid these constraints in the future by using adaptation pathways to make decisions that allow for maximum future flexibility. As new techniques and projects for restoration and risk reduction are being developed, there exists an opportunity to learn how the system will respond to the coastal protection and restoration program implementation and to use that learning to improve future program management decisions.

#### Adaptive management:

- 1. provides a structured process for making decisions over time through active learning;
- 2. enables adjustments in program implementation as new information becomes available; and
- 3. embraces a scientific approach that involves:
  - a. identifying explicit goals and objectives,
  - b. developing and implementing management actions,
  - c. assessing the system's response to the action(s), and then
  - d. using that knowledge to make management decisions.

Adaptive Management relies on an accumulation of evidence to support decisions that demand action. It also relies on maintaining flexibility to make management changes when necessary to adjust to changing conditions and a growing knowledge base. Critical to the success of adaptive management are the actions that ensure feedback of information among the various phases of project selection, engineering and design, construction, monitoring, and operations and maintenance. Adaptive Management is embodied by building institutional knowledge to continually improve understanding of the system and how management actions can best achieve project and program goals. All phases of project management must be coordinated and must share information, not only to maximize the benefits on a project-by-project basis, but also to carry the information learned from past projects into the development of future projects. A high level of commitment is needed to successfully incorporate adaptive management into ongoing business operations.

An adaptive management approach is generally employed when management decisions are hindered by uncertainties in the system dynamics or system response to management actions. Long-term restoration and protection in Louisiana's dynamic coastal environment must be an ongoing series of management decisions based upon a growing knowledge base of research information, updated measurements of ecosystem responses, and evaluations of degrees of progress in reaching goals and targets. The dynamic coastal environment associated with ongoing land loss, sea-level rise and subsidence as well as the periodic impact of tropical storms and hurricanes makes adaptive management imperative.

The scale and complexity of Louisiana's Coastal Master Plan requires a robust adaptive management strategy to cultivate a growing body of knowledge related to restoration and protection science. Although not formalized, CPRA has been actively practicing adaptive management since its inception. Examples of early improvements in CPRA's program include:

- Assessments and improvements in barrier island project designs based on project performance;
- Modifying operational regimes for freshwater diversion projects to mimic natural pulsing of the river; and
- Refining the types of projects authorized based on performance and improved understanding of land loss causes.

With the development of the first Coastal Master Plan in 2007, Louisiana moved from a project- and hydrologic basin-centric strategy to a more comprehensive program which demanded the development of robust and systematic decision support tools to assist with selecting portfolios of projects which would collectively address the goals and objectives of the state's coastal protection and restoration program.

CPRA's adaptive management approach balances the urgent need for action and the inherent uncertainty involved in large-scale coastal planning by ensuring new information is utilized in all aspects of the planning and implementation process. Adaptive management is a formalized, structured approach that identifies the pathways and mechanisms by which information is integrated into various activities related to achieving CPRA's mission.

CPRA will continue to build on the decades of research and analysis performed to date, and must move forward to maximize riverine resources even though our science may be imperfect. The projects discussed above are authorized through multiple programs, each of which entails different processes to proceed through implementation. Summaries of coastal programs with active projects are presented below. Detailed projected expenditures are presented in Appendix B by program.

# Coastal Wetlands Planning, Protection and Restoration Act (CWPPRA)

CWPPRA was authorized by Congress in 1990 to identify, prepare, and fund construction of coastal wetlands restoration projects. CWPPRA is managed by a Task Force comprised of the state and five federal agencies, including the Environmental Protection Agency (EPA), the U.S. Fish and Wildlife Service (USFWS), the Natural Resources Conservation Service (NRCS), the National Marine Fisheries Service (NMFS), and the USACE. Annually, the CWPPRA Task Force evaluates projects proposed for inclusion in the CWPPRA program and prepares a ranked list of candidate projects annually based on cost-effectiveness, longevity, risk, supporting partnerships, public support, and support of CWPPRA goals. From this ranked list, the Task Force selects a final list of projects, the Priority Project List (PPL), for implementation.

Following project selection, CWPPRA projects proceed through a two-phased implementation process. Phase 1 consists of Engineering and Design, an indepth process by which engineers and biologists further develop and assess project features and effects. After design, these projects will be considered for construction, which begins upon Phase 2 approval by the Task Force. Phase 2, referred to as Construction and Monitoring, involves the actual building and subsequent OM&M of the project. The state will expend funds in FY 2018 on the implementation of 17 CWPPRA Phase 1 projects (engineering and design), 13 CWPPRA Phase 2 projects (construction and monitoring), and one CWPPRA demonstration project.

Examples of active CWPPRA projects include the following:

- East Leeville Marsh Creation and Nourishment (BA-0194) (Phase 1)
- No Name Bayou Marsh Creation and Nourishment (CS-0078) (Phase 1)
- Rockefeller Refuge Gulf Shoreline Stabilization (ME-0018) (Phase 2)
- Cole's Bayou Marsh Restoration (TV-0063) (Phase 2)

Project schedules for CWPPRA projects are included in Table 3-2. Additional information about CWPPRA projects is available on the CWPPRA website (www. lacoast.gov). Project-specific CWPPRA expenditures are presented in Appendix B. The federal cost-share for CWPPRA projects is 85 percent of the total project cost, with the state assuming responsibility for the remaining 15 percent of the cost. The state's contribution must include a cash payment of not less than five percent of the total project cost. The remainder of the state's contribution may take the form of lands, easements, or rights-of-way, or any other form of in-kind contribution determined to be appropriate by the lead Task Force member. Cost-share agreement conditions for CWPPRA projects vary according to the federal partner.

## Water Resources Development Act (WRDA)

The state is partnered with the USACE on multiple large-scale protection and restoration projects and studies that have been authorized through past WRDA bills. WRDA refers to any of a set of public laws enacted by Congress to address various aspects of water resources including environmental, structural, navigational, flood protection, and hydrologic issues.

The state currently intends to expend funds in FY 2018 on several WRDA authorizations, including:

- Spanish Pass Ridge and Marsh Restoration (BA-0191)
- Southwest Coastal Louisiana Feasibility Study (LA-0020)

Schedules for these projects are presented in Table 3-3. Additional information about these projects is available at www.lca.gov.

# State-Only Projects

The Louisiana Legislature allocated \$790 million in state budget surpluses for the years 2007, 2008, and 2009 for coastal protection and restoration activities. The state is utilizing these funds to expedite its coastal program by funding ongoing programs, developing initiatives, and implementing protection and restoration projects. The overwhelming majority of these funds have been allocated to project implementation. Surplus funds have been used to supplement projects that are authorized through one of the other programs described in this section (e.g., Southwest Coastal Louisiana Feasibility Study [LA-0020]) and implement other state-only projects. The state has also begun implementation of other projects without a federal partner using Trust Fund revenues.

The state will expend funds in FY 2018 on 14 state-only projects, including 13 protection projects and one navigation project.

Broadly speaking, state-only projects generally involve one of the following categories:

- Expedited construction of components of federal protection projects (e.g., Morganza to the Gulf [TE-0064]);
- Feasibility studies for flood protection in areas not currently covered by the existing federal protection network (e.g., South Central Coastal Plan [TV-0054]);
- Protection and restoration projects not included in one of the other coastal programs that are to be implemented in conjunction with local parishes (e.g., Jean Lafitte Tidal Protection [BA-0075-1], Morgan City/St. Mary Flood Protection [TV-0055]).

A total of \$293.3 million in 2008 and 2009 was allocated to cover LERRDS cost for the Greater New Orleans Hurricane and Storm Damage Risk Reduction System (HSDRRS). Included within this total is \$193.3 million from Act 20 of the 2009 Regular Legislative Session that was approved for Southeast Louisiana Hurricane Protection projects. This includes credits and payments toward the state and levee district match requirements for the estimated \$15 billion HSDRRS work underway. The non-federal cost share of such work is estimated to be \$1.8 billion plus applicable interest. Under the plan, an additional \$40 million of these funds may be utilized to advance planning, design, and construction of hurricane protection and flood control projects in southeast Louisiana.

These investments will match local and federal funds while improving the protection of our most vulnerable communities consistent with the Master Plan. These funds are projected to be expended in their entirety by the end of FY 2019.

Project schedules for state-only projects are included in Table 3-4. Project-specific expenditures for state-only projects are presented in Appendix B.

Of the 14 active state-only projects, 11 are funded for construction and will proceed to construction in accordance with their schedules as presented in Table 3-4. One project is funded for design and following completion of design will proceed to construction upon procurement of construction funds. The remaining projects are funded for feasibility and would only proceed to design upon receipt of further authorization through another coastal funding program.

## Community Development Block Grants (CDBG)

Louisiana received \$1.06 billion from HUD's CDBG program to assist in the recovery from Hurricanes Gustav and Ike. The vast majority of CDBG funds were allocated to the 19 coastal parishes for use in protecting their communities and infrastructure. However, included within the \$1.06 billion was an allocation of \$27.4 million to the Louisiana Office of Community Development-Disaster Recovery Unit (OCD-DRU) for state coastal protection and restoration projects that will help communities recover from the 2008 hurricanes and prepare to withstand future hurricanes with greater resilience. The state, in partnership with local interests, identified potential flood protection and restoration projects that could be implemented with these CDBG funds in all major regions of coastal Louisiana, including floodgate installation; levee construction or improvement to reduce storm surge impacts to coastal communities and critical infrastructure; and shoreline protection to benefit communities and related infrastructure and recreational facilities. HUD subsequently approved nine projects for CDBG funding.

Project schedules for CDBG projects are included in Table 3-5. Project-specific expenditures for CDBG projects are presented in Appendix B.

Allactive state CDBG projects are funded for construction and will proceed to construction in accordance with their schedules as presented in Table 3-5. State CDBG projects require an agreement with the local sponsor, where the local sponsor is responsible for ownership and OM&M costs after project completion. Project implementation requires submittal of an application to OCD-DRU for final approval and funding. Applicant projects are reviewed by OCD-DRU for consistency with program objectives and criteria. Potential issues that could affect CDBG project implementation include design issues, land rights issues, environmental compliance issues, and permitting issues.

# Hurricane and Storm Damage Risk Reduction System

HSDRRS was authorized by PL 109-234, Emergency Supplemental Appropriations Act for Defense, the Global War on Terror, and Hurricane Recovery, 2006, and includes the West Bank and Vicinity project, the Lake Pontchartrain and Vicinity project, the IHNC Lake Borgne Surge Barrier and IHNC Seabrook Complex (each of which is managed separately). Each of these projects is in turn comprised of multiple segments, which have separate design and construction schedules. HSDRRS also covers multiple restoration projects that are currently under development as mitigation for wetland impacts associated with construction of hurricane protection projects.

As the non-federal sponsor along with the local levee authorities and levee districts, the state has contributed to the West Bank and Vicinity and Lake Pontchartrain and Vicinity projects through plans and specifications review, construction inspection assistance, project and program management, and payment of LERRDS costs. According to the USACE, the non-federal sponsor is responsible for the payback of the non-federal cost share (approximately 35 percent) over a 30-year period to begin upon acceptance of the system. Schedules for HSDRRS projects are included in Table 3-6. All of these projects are fully funded for construction and will proceed with construction according to the schedules provided in Table 3-6. The principal issues that affect HSDRRS projects include engineering, constructability, budget and time issues.

## Non-State Projects

Act 545 of the 2008 Legislature mandates that State Annual Plans include descriptions of all projects and programs relating to hurricane protection, restoration, and infrastructure in coastal Louisiana, including federal-only projects, local parish and levee district projects, and those privately funded wetland enhancements and activities that require a Coastal Use Permit. Appendix E contains an inventory of non-state projects identified through outreach to coastal parishes and levee districts to obtain information on local, non-state coastal projects. Appendix E also includes an inventory of proposed local projects as presented in coastal parish Master Plans. These proposed projects represent desired local investment in protection and restoration activities. Appendix E also presents information on federal coastal protection projects for which local parishes or levee districts serve as the local sponsor. Finally, Appendix E presents information on non-state projects that have received State Restoration Partnership grants to support implementation. Adding non-state projects to this inventory will be a priority in future years as the state continues to gather information about non-state coastal protection and restoration efforts.

# Deepwater Horizon Oil Spill Restoration Planning

The settlement with BP discussed in Section 2, combined with prior *Deepwater Horizon*-related settlements, and recoveries, totals \$8.7 billion over 15 years for Louisiana coastal restoration and economic damages. Understanding that each source of oil spill funding is subject to various criteria and public approval processes, the CPRA is looking at oil spill funding sources holistically in an effort to maximize the use of these dollars.

Schedules for projects that may be implemented as part of *Deepwater Horizon* oil spill restoration are presented in Table 3-7. Project specific expenditures are presented in Appendix B.

### Natural Resource Damage Assessment (NRDA) Restoration

The Natural Resource Damage Assessment (NRDA) is the process used by Natural Resource Trustees to develop, on behalf of the public, their claim for natural resource damages against the responsible party or responsible parties an oil spill. Through that claim, the Trustees seek compensation in the form of restoration for the harm done to natural resources and services. The overall goal of NRDA is to make the environment and public whole by restoring natural resources to their pre-spill conditions, and to provide compensation for the loss of those resources from the date of injury through completion of restoration.

## NRDA Early Restoration

In April 2011, the Trustees and BP announced an agreement under which BP committed to provide \$1 billion toward the implementation of early restoration projects. The agreement represented an initial step toward fulfilling BP's obligation as a responsible party to fund complete restoration of natural resources. Early restoration provides an opportunity to implement restoration projects prior to the completion of the natural resource damage assessment process.

Louisiana received, approximately \$370 million in early restoration funds which have been used for the following projects:

- Lake Hermitage Marsh Creation Project (\$14.4 M)
- Louisiana Oyster Cultch Project (\$15.6 M)
- Louisiana Outer Coast Restoration (\$318 M)
- Caillou Lake Headlands (Whiskey Island) (\$110 M)
- Shell Island West (\$101 M)
- Chenier Ronquille (\$35 M)
- North Breton Island (\$72 M)
- Provide and Enhance Recreational Opportunities (\$22M)

## Natural Resources Damages under the Oil Pollution Act

In February, the *Deepwater Horizon* Trustees released the Programmatic Damage Assessment and Restoration Plan and Programmatic Environmental Impact Statement (PDARP/PEIS). The plan established the framework for utilizing the \$8.8 billion allocated for restoration of natural resource damages, including a minimum of \$5 billion specifically allocated for Louisiana. Further, the plan proposes an allocation of funds by restoration type and geographic area based on the Trustees' understanding and evaluation of exposure and injury to natural resources and services, as well as an analysis of where restoration associated with the various restoration types would be most appropriate.

Following the PDARP/PEIS, a series of project-specific plans will be developed and released for public review. These plans will propose suites of projects intended to address injuries resulting from the oil spill for public consideration, and will be periodically presented and discussed with the public over the 15-year payment period specified in the settlement.

In October 2016, Louisiana released its first post-settlement project-specific draft restoration plan for public review and comment, and held a public meeting to discuss the plan during the November CPRA Board Meeting. The draft plan informs the public about *Deepwater Horizon* NRDA restoration planning efforts and proposes approximately \$22.3 million in engineering and design (E&D) work for six restoration projects. These projects would restore wetlands, coastal, and nearshore habitats; habitat projects on federally managed lands; and birds. The six proposed projects are as follows:

- Terrebonne Basin Ridge and Marsh Creation Project: Bayou Terrebonne Increment
- Barataria Basin Ridge and Marsh Creation Project: Spanish Pass Increment
- Lake Borgne Marsh Creation Project: Increment One
- Queen Bess Island Restoration Project
- Rabbit Island Restoration Project
- Shoreline Protection at Jean Lafitte National Historic Park and Preserve

Once this work is completed, Louisiana will evaluate the feasibility of these projects and develop a restoration plan for the construction of the projects. If all six projects are feasible, construction is estimated to cost over \$460 million.

#### BP and Transocean Criminal Settlements - NFWF

In early 2013, a U.S. District Court approved two plea agreements resolving the criminal charges against BP and Transocean related to the *Deepwater Horizon* disaster. The agreements directed a total of \$2.54 billion to NFWF for natural resources restoration in the Gulf of Mexico. Within five years of settling, NFWF's newly established Gulf Environmental Benefit Fund will receive approximately \$1.27 billion to "create or restore barrier islands off the coast of Louisiana and/or to implement river diversion projects on the Mississippi and/or Atchafalaya Rivers for the purpose of creating, preserving and restoring coastal habitat."

- Adaptive Management: Louisiana River Diversions and Barrier Islands (\$13.2 M)
- Caminada Beach and Dune Increment II:
  - Engineering and Design (\$2.7 M)
  - Construction (\$144.5 M)
- East Timbalier Island: Engineering and Design (\$5.6 M)
- Mid-Barataria Sediment Diversion: Engineering and Design (\$37.7 M)
- Lower Mississippi River Sediment Diversions: Planning (\$12.8 M)
- Increase Atchafalaya Flow to Terrebonne: Planning (\$4.6 M)

This latest funding award, \$245 million, is a milestone in advancing implementation of the biggest projects within the Louisiana Coastal Master Plan and another victory for rehabilitating Louisiana's most valuable asset, our coast.

- Mid Barataria Sediment Diversion (Remaining Engineering and Design) (\$102.3 M)
- Mid Breton Sediment Diversion (Engineering and Design) (\$90.6 M)
- Increase Atchafalaya Flow to Terrebonne (Engineering and Design) (\$16.4 M)
- Adaptive Management: Louisiana River Diversions and Barrier Islands Phase II (\$19.6 M)
- Mississippi River Sediment Diversion Program Management (\$16.1 M)

The next NFWF grant application cycle begins in March 2017.

#### Clean Water Act Penalties

The CWA establishes the basic structure for regulating discharges of pollutants into the waters of the United States and regulating water quality standards for surface waters. The CWA makes it unlawful to discharge any pollutant from a point source into navigable waters, unless a permit is obtained. Violations of the CWA can result in both civil and criminal prosecutions by the federal government. The U.S. Department of Justice (DOJ), on behalf of the EPA, the United States Coast Guard (USCG), or another federal agency, may bring enforcement actions for civil or criminal penalties under the CWA.

### **RESTORE Act**

In June 2012, Congress passed the Resources and Ecosystems Sustainability, Tourist Opportunities, and Revived Economy of the Gulf Coast Act of 2012 (the RESTORE Act), which dedicates 80 percent of all prospective CWA administrative and civil penalties related to the *Deepwater Horizon* spill to a Gulf Coast Restoration Trust Fund. The RESTORE Act also outlines a structure by which the funds can be utilized to restore and protect the natural resources, ecosystems, fisheries, marine and wildlife habitats, beaches, coastal wetlands, and economy of the Gulf Coast region.

The RESTORE Act outlines the following framework for allocation of the RESTORE Trust Fund:

- 35 percent equally divided among the five Gulf Coast States for ecological restoration, economic development, and tourism promotion (Direct Component) (Bucket 1);
- 30 percent plus interest managed by the Council for ecosystem restoration under the Comprehensive Plan (Council-Selected Restoration Component) (Bucket 2);
- 30 percent divided among the States according to a formula to implement state expenditure plans, which require approval of the Council (Spill Impact Component) (Bucket 3);
- 2.5 percent plus interest for the Gulf Coast Ecosystem Restoration Science,
  Observation, Monitoring and Technology Program within the Department of
  Commerce's National Oceanic and Atmospheric Administration (NOAA Science
  Program) (Bucket 4); and
- 2.5 percent plus interest allocated in equal shares to the Gulf Coast States for the
  establishment of Centers of Excellence which will focus on science, technology,
  and monitoring related to Gulf restoration (Center of Excellence Component)
  (Bucket 5).

In February 2013, Transocean Deepwater Inc. (Transocean) agreed to pay \$1 billion to resolve federal CWA civil penalties associated with the *Deepwater Horizon* oil spill. In December 2015, a final judgment was issued against Anadarko Petroleum Corporation (Anadarko) for CWA penalties in the amount of \$159.5 million for its role in the oil spill. Finally, as part of the April 2016 BP consent decree, BP agreed to pay \$5.5 billion for CWA civil penalties. These CWA penalties from Transocean, Anadarko and BP are all subject to the RESTORE Act. Under the RESTORE Act and over a 15 year period, these settlements combined will direct a minimum of approximately \$988.2 million to the State of Louisiana, of which \$876.7 million will be allocated to CPRA for implementation of Master Plan projects.

## Direct Component and Spill Impact Component Projects

In order to expend Direct Component or Spill Impact Component funds, CPRA is required to submit a plan describing how it will use those funds. On January 18, 2017, the state's First Amended RESTORE Plan (RESTORE Plan), which describes how the state will use these funds over 15 years, was approved by the CPRA Board for submission to the U.S. Department of Treasury (Treasury) for expenditure of Direct Component funds and the RESTORE Council for expenditure of Spill Impact Component funds.

In March 2017, Louisiana became the first state to have a plan accepted by both Treasury and the RESTORE Council for the expenditure of all of its Direct Component and Spill Impact Component funds from the Transocean, Anadarko Petroleum Corporation and BP Exploration & Production Inc. settlements over a 15 year period. Acceptance of the RESTORE Plan by Treasury and the RESTORE Council is a prerequisite to CPRA submitting grant applications to fund projects under the plan. Under the RESTORE Plan, the state committed to funding two projects and two programs for a total of approximately \$811.9 million:

- Direct Component (~\$260.4 million):
  - Calcasieu Ship Channel Salinity Control Measures project (~\$260.4 million)
- Spill Impact Component (~\$551.5 million):
  - Houma Navigation Canal Lock Complex project (~\$366 million)
  - Adaptive Management Program (~\$60.9 million)
  - Parish Matching Program (up to \$100 million)
  - Contingency funds (~\$24.6 million)

# Council-Selected Restoration Component Projects

In December 2015, the Gulf Coast Ecosystem Restoration Council approved the Initial Funded Priorities List (FPL) which included funding for seven projects in Louisiana totaling approximately \$52 million. The funds allocated by the initial FPL are associated with the Transocean settlement.

The Coastal Master Plan projects receiving funding include:

- Golden Triangle Marsh Creation Project (\$4.3M; planning)
- Mississippi River Reintroduction into Maurepas Swamp (\$14.2 M; planning)
- Biloxi Marsh Living Shoreline Project (\$3.2 M; planning)
- West Grand Terre Beach Nourishment and Stabilization Project (\$7.3 M; planning)
- Lower Mississippi River Management Program (\$9.3 M; planning)

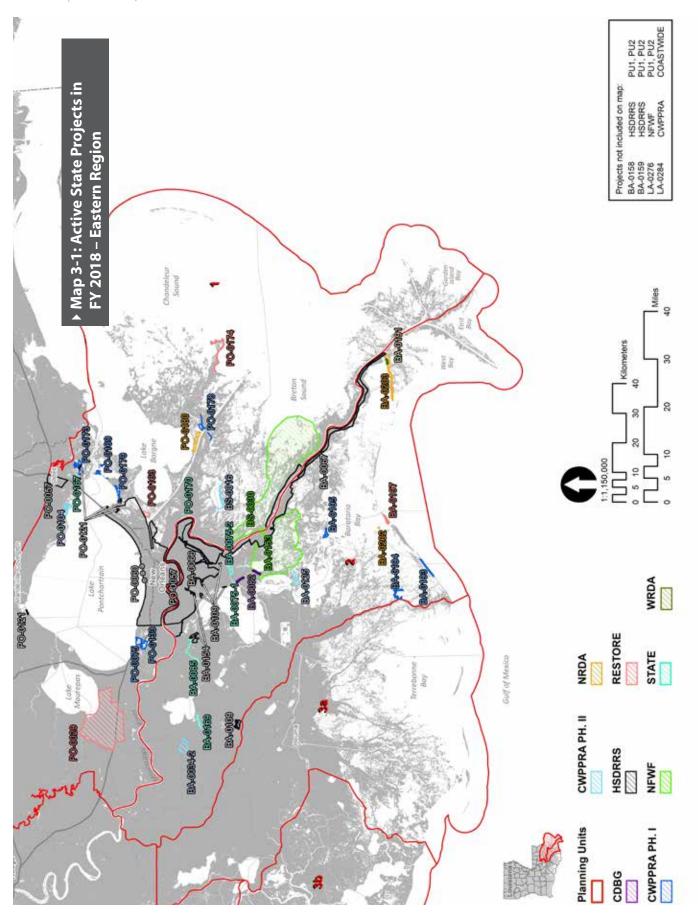
Two additional projects, Jean Lafitte Canal Backfilling (\$8.7 million; implementation) and Bayou Dularge Ridge, Marsh and Hydrologic Restoration (\$5.2 million; planning) are also located in Louisiana. These two projects, submitted for funding by federal members of the Council, will directly benefit coastal Louisiana.

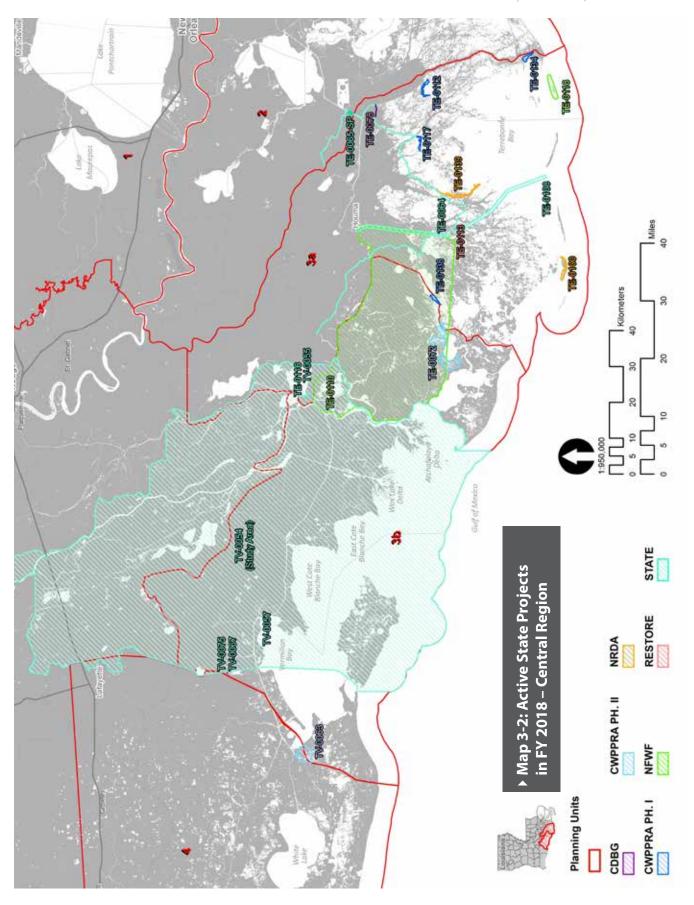
Although the future funding available for Louisiana under this component is unknown, the Council does anticipate that future iterations of the FPL will include significantly larger projects and project lists that reflect the full amount available to be spent for restoration activities. CPRA anticipates that future requests for FPL funding will include additional funds for future phases of work associated with the Coastal Master Plan projects included in the Initial FPL, as well as requests for funding other projects prioritized by CPRA for RESTORE.

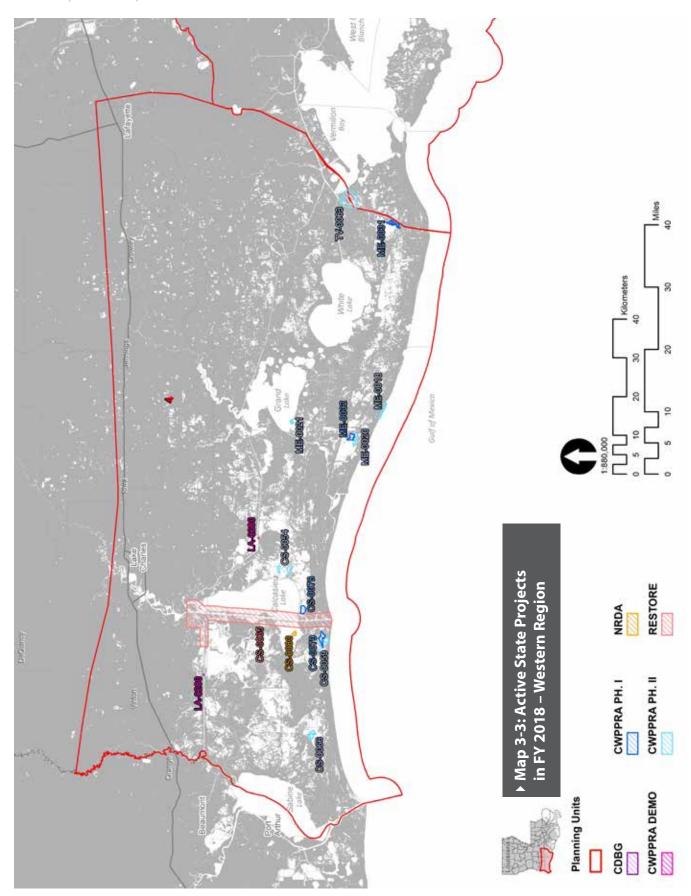
#### Center of Excellence

In November 2015, the U.S. Department of the Treasury awarded CPRA a \$4 million grant to begin its Center of Excellence research program. This grant funding comes from settlements of the federal Water Pollution Control Act in the wake of the 2010 *Deepwater Horizon* oil spill, which flow through CPRA to the Center. CPRA will provide these funds to the Water Institute of the Gulf, which has been selected as the state's RESTORE Act Center of Excellence, to oversee research efforts designed to advance the state's Coastal Master Plan in areas relating to coastal sustainability, ecosystem research and monitoring.

In November 2016, The RESTORE Act Center of Excellence for Louisiana released a Request for Proposals encouraging coastal researchers, both student and professional, to apply for about \$3 million in competitive grant money. Projects submitted for these two-year awards must support research directly related to the implementation of Louisiana's Coastal Master Plan which guides the state's coastal restoration and protection work. Information on the Center's Research Strategy can be downloaded from the Center's website: www.LA-COE.org.







# ▶ Table 3-1: Projects Scheduled to be in Construction in FY 2018

		Construention	Construction	Total Dunings			
Project ID	Project Name	Construction Start Date <sup>1</sup>	Finish Date	Total Project Estimate			
CWPPRA Pha	se II Projects						
BA-0034-2	Hydrologic Restoration and Vegetative Planting in the Des Allemands Swamp	11-Jul-17	31-Jul-18	\$6,188,548			
BS-0016	South Lake Lery Shoreline and Marsh Restoration	05-Sep-13	15-Aug-17	\$33,716,987			
CS-0054	Cameron-Creole Watershed Grand Bayou Marsh Creation	01-May-17	15-Aug-18	\$24,655,612			
CS-0059	Oyster Bayou Marsh Creation and Terracing	30-Jun-16	31-Aug-17	\$30,866,713			
ME-0018	Rockefeller Refuge Gulf Shoreline Stabilization	17-Apr-17	13-Sep-18	\$35,426,478			
ME-0020	South Grand Chenier Marsh Creation Project	03-Mar-17	17-Aug-18	\$23,873,346			
ME-0021	Grand Lake Shoreline Protection-Tebo Point	17-May-16	20-Jul-17	\$11,305,616			
PO-0104	Bayou Bonfouca Marsh Creation	28-Apr-16	31-Jan-18	\$29,273,984			
TE-0072	Lost Lake Marsh Creation and Hydrologic Restoration	07-Sep-16	\$35,876,728				
TV-0063	Cole's Bayou Marsh Restoration	20-Jun-17	19-Sep-18	\$24,930,426			
State-Only P	rojects						
BA-0075-1	Jean Lafitte Tidal Protection	19-Feb-14	12-Dec-18	\$29,403,973			
BA-0075-2	Rosethorne Tidal Protection	16-Aug-17	28-May-19	\$22,950,000			
BA-0085	St. Charles West Bank Hurricane Protection Levee	01-Nov-13	1-Sep-22	\$14,500,000			
BA-0169	Kraemer Bayou Boeuf Levee Lift	26-Apr-17	30-Apr-19	\$1,200,000			
PO-0170	Violet Canal North Levee Alignment	31-Jul-17	31-Aug-18	\$1,164,000			
TE-0064	Morganza to the Gulf	30-Nov-05	1-Oct-19	\$177,003,835			
TE-0065-SP	Larose to Golden Meadow - Larose Sheetpile	26-Jan-15	30-Jun-18	\$8,000,000			
TE-0116	St. Mary Backwater Flooding	27-Mar-17	20-Feb-19	\$5,000,000			
TV-0055	Morgan City/St. Mary Flood Protection	20-Oct-16	12-Mar-18	\$10,900,000			
CDBG Projec	ts						
BA-0082	82 Lafitte Area Levee Repair		17-Jul-18	\$546,000			
TE-0078	0078 Cut-Off/Pointe Aux Chene Levee		13-Aug-18	\$8,468,857			
HSDRRS Proj	ects						
BA-0066	West Bank and Vicinity	27-Mar-07	27-Mar-07 29-Jun-18				
BA-0067	New Orleans to Venice	21-Nov-11	21-Nov-11 11-Dec-23				
BA-0109	HSDRRS Mitigation-WBV <sup>3</sup>	16-Jun-16	15-Jul-19	\$126,000,000			
BA-0154	Previously Authorized Mitigation WBV <sup>3</sup>	04-Aug-14	04-Aug-14 31-Oct-18				
PO-0057	SELA- Overall	18-Feb-09	18-Feb-09 12-Oct-20				
PO-0060	Permanent Canal Closures and Pump Stations⁴	01-Jan-13	30-Jun-18	\$614,800,000			
PO-0121	HSDRRS Mitigation- LPV <sup>4</sup>	23-Jul-15	3-Sep-19	\$85,000,000			
NRDA Early F	Restoration Projects						
TE-0100	NRDA Caillou Lake Headlands	22-Jul-15	15-May-18	\$118,340,766			
WRDA Projec	rts						
BA-0191	Spanish Pass Ridge and Marsh Restoration	15-Jul-16	6-Feb-18	\$18,111,516			

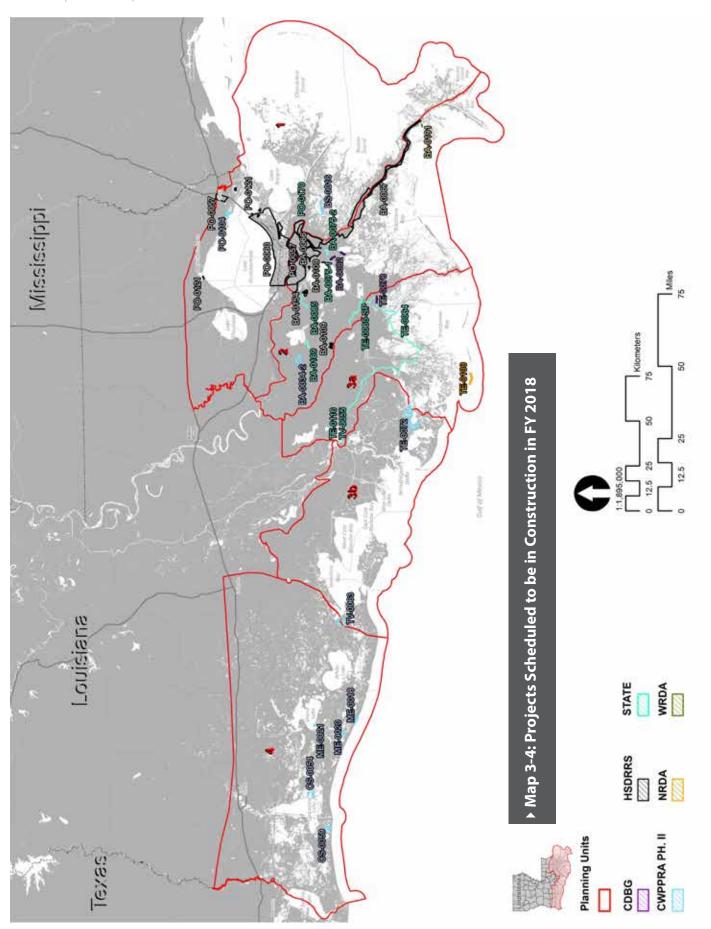
Note

<sup>1.</sup> Construction start date is defined as projected date for advertisement of construction bid notice; actual date of mobilization may vary.

<sup>2.</sup> Project partially funded with Surplus funds.

<sup>3.</sup> Project cost included in total cost for BA-0066.

<sup>4.</sup> Project cost included in total cost for PO0063.



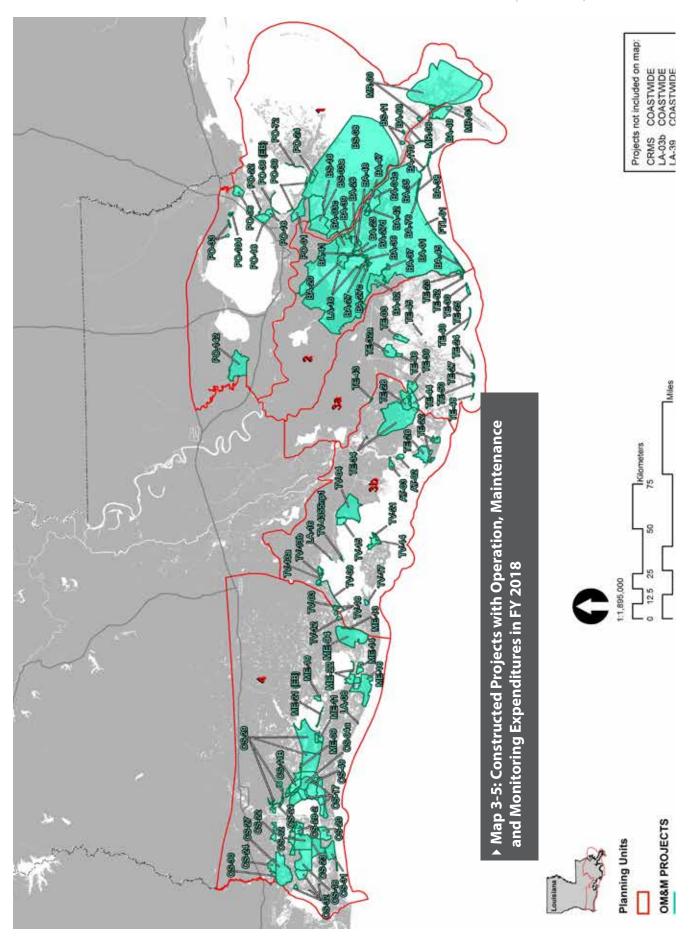


Table 3-2: Projected Three-Year Schedules for Active CWPPRA Projects<sup>1</sup> (FY 2018 - 2020)

Table	-2: Projected Three-Year Sched	ares	TOT ACC										2020		
Project ID	Project Name	Tier	Federal Sponsor	CY 2017		Calendar Yr 20 3FQ 4FQ 1FQ					Calendar '				020 4FQ
											2019				
CWPPRA P	nase I Projects														
BA-0193	Caminada Headlands Back Barrier Marsh Creation Increment 2	2	EPA	D	D	D	D	D	D	W	W	W	W	W	W
BA-0194	East Leeville Marsh Creation and Nourishment	1	NOAA	D	D	D	D	D	D	D	D	D	D	W	W
BA-0195	Barataria Bay Rim Marsh Creation and Nourishment	1	NRCS	D	D	D	D	D	D	D	D	D	D	W	W
CS-0078	No Name Bayou Marsh Creation and Nourishment	1	NOAA	D	D	D	D	D	D	W	W	W	W	W	W
CS-0079	Oyster Lake Marsh Creation and Nourishment	1	NOAA	D	D	D	D	D	D	W	W	W	W	W	W
ME-0031	Freshwater Bayou Marsh Creation (CWPPRA)	1	NRCS	D	D	D	D	D	D	D	D	D	D	W	W
ME-0032	South Grand Chenier Marsh Creation - Baker Tract	1	NRCS	D	D	D	D	D	D	D	W	W	W	W	W
PO-0075	LaBranche East Marsh Creation	2	NRCS	D	D	D	D	D	D	W	W	W	W	W	W
PO-0133	Labranche Central Marsh Creation	2	NRCS	D	D	D	D	D	D	W	W	W	W	W	W
PO-0169	New Orleans Landbridge Shoreline Stabilization & Marsh Creation	1	USFWS	D	D	D	D	D	D	W	W	W	W	W	W
PO-0173	Fritchie Marsh Creation and Terracing	1	NOAA	D	D	D	D	D	D	D	D	D	D	W	W
PO-0178	Bayou La Loutre Ridge Restoration and Marsh Creation	1	NRCS	D	D	D	D	D	D	D	D	D	D	D	D
PO-0179	St. Catherine Island Marsh Creation and Shoreline Protection	1	USFWS	D	D	D	D	D	D	D	D	D	D	W	W
TE-0112	North Catfish Lake Marsh Creation	2	NRCS	D	D	D	D	D	W	W	W	W	W	W	W
TE-0117	Island Road Marsh Creation and Nourishment	1	NOAA	D	D	D	D	D	W	W	W	W	W	W	W
TE-0134	West Fourchon Marsh Creation	1	NOAA	D	D	D	D	D	W	W	W	W	W	W	W
TE-0138	Bayou DeCade Ridge and Marsh Creation	1	NOAA	D	D	D	D	D	D	D	D	D	D	W	W
BA-0171	Caminada Headland Back Barrier Marsh Creation	1	EPA	W	W	W	W	W	W	W	W	W	W	W	W
BA-0173	Bayou Grande Cheniere Marsh and Ridge Restoration	1	USFWS	W	W	W	W	W	W	W	W	W	W	W	W
BS-0024	Terracing and Marsh Creation South of Big Mar	2	USFWS	W	W	W	W	W	W	W	W	W	W	W	W
CS-0049	Cameron-Creole Freshwater Introduction	1	NRCS	W	W	W	W	W	W	W	W	W	W	W	W
PO-0034	Alligator Bend Marsh Restoration and Shoreline Protection	1	NRCS	W	W	W	W	W	W	W	W	W	W	W	W
PO-0168	Shell Beach South Marsh Creation <sup>1</sup>	1	EPA												
TE-0039- CU2	South Lake Decade Freshwater Introduction - CU2 <sup>1</sup>	1	NRCS												

			Fadaval	CY 2	017	Cal	enda	r Yr 2	018	Cal	enda	r Yr 20	019	CY 2	2020
Project ID	Project Name	Tier	Federal Sponsor	1FQ 2018				1FQ 2019		3FQ 2019		1FQ 2020		3FQ 2020	4FQ 2020
CWPPRA Ph	nase II Projects														
BA-0034-2	Hydrologic Restoration and Vegetative Planting in the Lac des Allemands Swamp	2	EPA	С	С	С	O	F	0	0	0	0	0	0	0
BA-0125	Northwest Turtle Bay Marsh Creation	2	USFWS	D	D	D	D	В	С	С	О	О	О	H	0
BS-0016	South Lake Lery Shoreline and Marsh Restoration	С	USFWS	F	0	0	0	0	0	0	0	0	0	0	0
CS-0054	Cameron-Creole Watershed Grand Bayou Marsh Creation	1	USFWS	С	С	С	С	F	0	0	0	0	0	0	0
CS-0059	Oyster Bayou Marsh Creation and Terracing	1	NOAA	F	0	0	0	0	0	0	0	0	0	0	0
CS-0066	Cameron Meadows Marsh Creation and Terracing	2	NOAA	D	D	D	D	D	D	В	O	O	O	O	С
LA-0284	Salvinia Weevil Propagation Facility		USFWS	D	D	D	D	D	D	С	0	0	0	0	0
ME-0018	Rockefeller Refuge Gulf Shoreline Stabilization	1	NOAA	С	С	С	С	F	0	0	0	0	0	0	0
ME-0020	South Grand Chenier Marsh Creation Project	: C	USFWS	С	С	С	O	F	0	0	0	0	0	0	0
ME-0021	Grand Lake Shoreline Protection-Tebo Point	С	NRCS	F	0	0	0	0	0	0	0	0	0	0	0
PO-0104	Bayou Bonfouca Marsh Creation	С	USFWS	С	С	F	0	0	0	0	0	0	0	0	0
TE-0072	Lost Lake Marsh Creation and Hydrologic Restoration	1	USFWS	С	С	С	F	0	0	0	0	0	0	0	0
TV-0063	Cole's Bayou Marsh Restoration	1	NOAA	С	С	С	С	F	0	0	0	0	0	0	0
CWPPRA De	emo Projects														
LA-0280	Shoreline Protection, Preservation, and Restoration (SSPR) Panel	2	NOAA	D	D	D	D	D	D	D	D	D	С	С	С
Legend		Р	Feasibility & I	Plannii	ng			В	Во	oth De	esign 8	& Cons	structi	on	
	ect currently on hold; schedule to be ated when implementation recommences.	D	Engineering	& Desi	gn			F	Co	onstru	ction	Comp	lete		
References		W	Awaiting Add Implementat	ditiona ion	l Fund	ding fo	or	I	Pr	ogran	n Impl	emen	tation		
Re		С	Construction					0		perati onito		lainte	nance	, &	

## ▶ Table 3-3: Projected Three-Year Schedules for Active WRDA Projects (FY 2018 - 2020)

				Federal	CY 2	2017	Cal	enda	r Yr 2	018	Cal	enda	r Yr 2	019	CY 2	020
Pro	ject ID	Project Name	Tier	Sponsor										2FQ 2020		
LCA	Projects															
BA-0	0191	Spanish Pass Ridge and Marsh Restoration	1 1	USACE	С	С	С	F	W	W	W	W	W	W	W	W
PO-0	0068	LCA Small Diversion at Convent / Blind River	2 1	USACE	W	W	W	W	W	W	W	W	W	W	W	W
MR-	0016	Mississippi River Hydrodynamic and Delt Management Study <sup>2</sup>	a 1	USACE												
Oth	er WRDA	Projects														
LA-C	0020	Southwest Coastal Louisiana Feasibility Study <sup>1,2</sup>	2 1	USACE	W	W	W	W	W	W	W	W	W	W	W	W
Leg	end		P	easibility & P	lannir	ng			В	Вс	oth De	esign 8	& Con	structi	on	
	-	ct partially funded by Surplus funds.	D	Engineering &	k Desi	gn			F	Co	onstru	ction	Comp	olete		
References	,	ted when implementation recommences.		Awaiting Add mplementati		l Fund	ling fo	r		Pr	ogran	n Impl	emen	tation		
Rei			С	Construction					0		perati onito		lainte	nance	, &	

## ▶ Table 3-4: Projected Three-Year Schedules for Active State-Only Projects (FY 2018 - 2020)

			Federal	CY 2	2017	Cal	enda	r Yr 2	018	Cal	enda	r Yr 2	019	CY 2	2020
Project ID	Project Name	Tier	Sponsor		2FQ 2018			1FQ 2019							
State Surplu	s Projects														
BA-0075-1	Jean Lafitte Tidal Protection	1	N/A	С	С	С	С	С	F						
BA-0075-2	Rosethorne Tidal Protection	1	N/A	С	С	С	С	С	С	С	F				
BA-0085	St. Charles West Bank Hurricane Protection Levee	1	N/A	С	С	С	С	С	С	С	С	С	С	С	С
BA-0169	Kramer/Bayou Boeuf Levee Lift	1	N/A	С	С	С	С	С	С	С	F				
PO-0167	St. Tammany Parish Coastal Protection Study	1	N/A	D	D	D	D	D	D	D					
PO-0170	Violet Canal North Levee Alignment	1	N/A	В	С	С	С	F							
TE-0064	Morganza to the Gulf	С	USACE	С	С	С	С	С	С	С	С	С	F		
TE-0065-SP	Larose to Golden Meadow- Larose Sheetpile	С	N/A	В	В	В	В								
TE-0108	HNC Deepening Section 203 Study	2	USACE	Р	Р	Р	Р	Р	Р						
TE-0116	St. Mary Backwater Flooding	1	N/A	В	В	В	С	С	С	IL.					
TV-0054	South Central Coastal Plan	-	N/A	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р		
TV-0055	Morgan City/ St Mary Flood Protection	1	N/A	С	С	F									
TV-0067	Bayou Tigre Flood Control Project	1	HUD	D	D	D	D	D	D	D	С	С	С	С	С
TV-0075	Bayou Tigre Flood Control Complex	1	N/A	D	D	D	D	D	D	D	С	С	С	С	С
TV-0057	Delcambre-Avery Canal (E&D)	1	N/A	W	W	W	W	W	W	W	W	W	W	W	W
PO-0062	West Shore-Lake Pontchartrain, Louisiana Hurricane Protection Project Feasibility Study <sup>1</sup>	1	USACE												
Legend		Р	Feasibility & F	lannir	ng				Вс	th De	sign 8	Cons	structi	on	
	ct currently on hold; schedule to be ted when implementation recommences.	D	Engineering &	& Desig	gn			F	Co	nstru	ction	Comp	lete		
References		W	Awaiting Add Implementati		l Fund	ling fo	r	ı	Pr	ogran	n Impl	emen	tation		
Ref		С	Construction					0		oeration onitor		ainte	nance	, &	

## ▶ Table 3-5: Projected Three-Year Schedules for Active CDBG Projects (FY 2018 - 2020)

			Federal	CY 2	2017	Cal	enda	r Yr 2	018	Cal	enda	r Yr 2	019	CY 2	2020
Project ID	Project Name	Tier	Sponsor										2FQ 2020		
BA-0082	Lafitte Area Levee Repair	1	HUD	С	С	С	С	F							
TE-0078	Cut-Off/Pointe Aux Chene Levee	1	HUD	С	С	С	С	F							
Legend		Р	Feasibility & P	lannir	ng				Вс	th De	esign 8	& Cons	structi	on	
Se		D	Engineering 8	d Desig	gn				Cc	nstru	ction	Comp	lete		
References		- ///	Awaiting Add Implementati		l Fund	ling fo	or		Pr	ogran	n Impl	emen	tation		
Re		С	Construction					0		oeration onitor		lainte	nance	, &	

## ▶ Table 3-6: Projected Three-Year Schedules for Active HSDRRS Projects (FY 2018 - 2020)¹

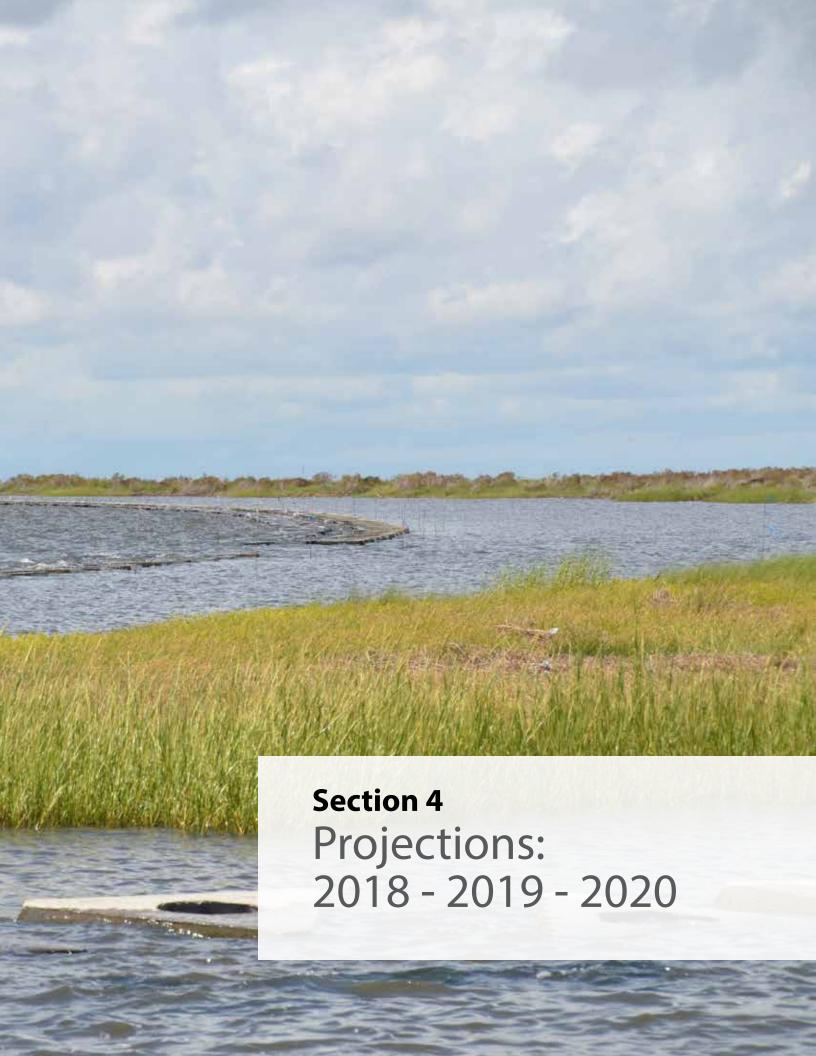
				Federal	CY 2	2017	Cal	enda	r Yr 2	018	Cal	enda	r Yr 2	019	CY 2	020
Proje	ect ID	Project Name	Tier	Sponsor										2FQ 2020		
BA-00	66	West Bank and Vicinity <sup>2,3,4,5</sup>	С	USACE	С	С	O	F								
BA-00	67	New Orleans to Venice <sup>2,3</sup>	1	USACE	С	С	C	O	С	С	С	С	С	С	O	C
BA-010	09	HSDRRS Mitigation- WBV <sup>2,3</sup>	2	USACE	В	В	В	В	В	В	С	С	F			
BA-01	54	Previously Authorized Mitigation WBV <sup>2,3</sup>	2	USACE	С	С	С	С	С	F						
BA-01!	58	New Orleans to Venice Mitigation - Plaquemines Non-Federal <sup>2,3</sup>	2	USACE	D	D	D	D	D	С	С	O	С	С	С	С
BA-01!	59	New Orleans to Venice Mitigation - Federal <sup>2,3</sup>	2	USACE	D	D	D	D	D	С	С	О	С	С	С	С
PO-00	57	SELA- Overall <sup>2,3</sup>	С	USACE	С	С	С	С	С	С	С	С	С	С	С	С
PO-00	60	Permanent Canal Closures and Pump Stations <sup>2,3</sup>	1	USACE	С	С	С	F								
PO-01	21	HSDRRS Mitigation- LPV2 <sup>2,3</sup>	2	USACE	С	С	С	С	С	С	С	С	С	F		
Leger	nd		Р	Feasibility & Pl	annin	g			В	Во	th De	sign &	Cons	tructio	on	
1. Se 2.	sponse	Induties are the responsibility of the local or.  Justine 1	D	Engineering &	Desig	ın				Со	nstrud	ction (	Comp	lete		
References 3.	State 6	expenditures may be covered with Surplus tion for HSDRRS LERRDS.		Awaiting Addi Implementatio		Fundi	ng foi	ſ	- 1	Pro	ogram	Imple	emen	tation		
4.		ule does not include HSDRRS Armoring, is anticipated to continue into 2020.	С	Construction					0		eratio onitori		ainter	nance,	&	
5.	upon o	ents for 30-year payback to commence completion of construction activities. ding to the USACE, payback will begin in lar year 2019.														

▶ Table 3-7: Projected Three-Year Schedules for Active and Proposed Oil Spill Projects (FY 2018 - 2020)

			Federal	CY 2				r Yr 2			enda			CY 2	2020
Project ID	Project Name	Tier	Sponsor							3FQ 2019			2FQ 2020	3FQ 2020	
NRDA Early Res	storation Projects														
BA-0202	Queen Bess Island Restoration	1	N/A	D	D	D	D	D	D	W	W	W	W	W	W
BA-0203	Barataria Basin Ridge and Marsh Restoration- Spanish Pass Increment	1	N/A	D	D	D	D	D	D	D	D	D	D	W	W
CS-0080	Rabbit Island Restoration	1	N/A	D	D	D	D	D	D	D	D	W	W	W	W
PO-0180	Lake Borgne Marsh Creation- Increment 1	1	N/A	D	D	D	D	D	D	D	D	D	D	W	W
TE-0100	NRDA Caillou Lake Headlands	1	N/A	С	С	С	O	F							
TE-0139	Terrebonne Basin Ridge and Marsh Creation- Bayou Terrebonne Increment	1	N/A	D	D	D	D	D	D	D	D	D	D	W	W
<b>NFWF Projects</b>															
BA-0153	Mid-Barataria Sediment Diversion	1	N/A	D	D	D	D	D	D	D	D	D	D	W	W
BS-0030	Mid-Breton Sediment Diversion	1	N/A	D	D	D	D	D	D	D	D	D	D	D	D
LA-0276	Sediment Diversion Implementation and Program Management	1	N/A	D	D	D	D	D	D	D	D	D	W	W	W
TE-0110	Increase Atchafalaya Flow to Eastern Terrebonne	1	N/A	D	D	D	О	D	D	D	D	D	D	D	D
TE-0118	East Timbalier Island Restoration	1	N/A	D	D	D	D	D	D	D	D	D	D	W	W
RESTORE Proje	cts (Proposed)														
BA-0197	West Grand Terre Beach Nourishment and Stabilization	1	N/A	D	D	D	О	D	D	D	D	D	W	W	W
CS-0065	Calcasieu Ship Channel Salinity Control Measures	1	N/A	D	D	D	D	D	D	D	D	W	W	W	W
PO-0029	Mississippi River Reintroduction into Maurepas Swamp	1	N/A	D	D	D	D	D	D	D	D	D	D	D	D
PO-0163	Golden Triangle Marsh Creation	1	N/A	D	D	D	D	D	D	D	D	D	D	D	W
PO-0174	Biloxi Marsh Living Shoreline Project	1	N/A	D	D	D	D	D	D	D	D	D	D	W	W
TE-0113	Houma Navigation Canal Lock Complex	1	N/A	D	D	D	D	D	D	D	W	W	W	W	W
N/A	Lower Mississippi River Management	-	N/A	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р	Р
Legend	P	Fe	easibility & Pl	annin	g				Во	th De	sign &	Cons	tructio	on	
	D	Eı	ngineering &	Desig	ın			F	Co	nstrud	ction (	Comp	lete		
	W		waiting Addi nplementatio		Fundi	ing fo	r	ı	Pro	ogram	Imple	ement	tation		
	C	C	onstruction					0		eratio onitori		ainter	nance,	&	

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## Section 4

## Projections: Fiscal Years 2018 – 2019 – 2020

Table 4-1 presents projected state revenues over the next three fiscal years. Tables 4-2 through 4-4 show how the state proposes to spend its coastal budget over the next three fiscal years. Figures 4-1 through 4-3 depict projected expenditures by project phase for FY 2018–FY 2020, respectively.

While the three-year projections provide readers with an informative picture of the state's upcoming activities, the Legislature only reviews and approves expenditures for FY 2018 (July 1, 2017 through June 30, 2018). The implementation plan incorporates projects that have received funding for planning, design, construction, or OM&M. The state is exploring new funding sources, with the intent of obtaining a level of funding consistently from year to year so that new projects can continue to be brought on line. The state acknowledges that new project opportunities may arise as federal funds become available after the approval of the FY 2018 Annual Plan. In this event, any requests for additional expenditures will be submitted for approval by the CPRA Board.

## Sources of Coastal Funding

The state will continue to pursue new possible funding sources while we make the most efficient use of existing funding sources, which include the following:

- The state Coastal Protection and Restoration Trust Fund is largely supported by mineral revenues and severance taxes on oil and gas production on state lands. The Trust Fund provides funding for the coastal program's ongoing operating expenses and for continuing state efforts in coastal restoration and protection.
- The Louisiana Legislature allocated funds from state budget surpluses in 2007, 2008, and 2009 to the coastal program, providing a \$790 million investment in coastal protection and restoration efforts. All surplus funds are currently projected to be expended by the end of FY 2020.
- The Gulf of Mexico Energy Security Act (GOMESA) provides four Gulf Coast states, including Louisiana, with 37.5 percent of federal revenue gained from new OCS drilling leases. Full funding from GOMESA will begin in 2018 and is expected to eventually contribute \$120–140 million to Louisiana each year. No end date has been established for GOMESA funding. The state is considering bonding GOMESA funds based on expected revenue from future oil and gas royalty payments, a strategy that could contribute significant funding to the coastal program over the near-term. The state is also considering borrowing GOMESA funds from the federal government based on expected future royalties. Before bonding or borrowing can take place, however, the U.S. Department of the Interior must publish regulations for allocating funds to the state, and the state must estimate the amount of money that can be expected from oil and gas revenues (both short- and long-term). With these estimates, the potential revenue stream can be evaluated.

- Louisiana received \$1.06 billion in CDBG funding to assist in the recovery from Hurricanes Gustav and Ike. This total includes an allocation of \$27.4 million for state coastal protection and restoration projects. All CDBG funding resulting from Hurricanes Gustav and Ike is currently projected to be expended by FY 2018.
- The Office of the Governor generates a Capital Outlay Budget Proposal with a list of projects to be granted cash and non-cash lines of credit. State and non-state entities may submit Capital Outlay requests for inclusion in the proposal. For FY 2018, the CPRA is requesting Capital Outlay funding to supplement implementation of 13 coastal projects. Additional information about this request is presented in Appendix F. Final decisions on Capital Outlay requests will be announced at the close of the 2017 Regular Legislative Session.

## **Development of Funding Projections**

The budget projections in Tables 4-2 through 4-4 show the amount of state funds that would actually be needed to accomplish the proposed implementation plan for the next three fiscal years. When developing these projections, the planning team worked with the following assumptions:

- Projected Trust Fund revenues are based on the most recent available information; however, this revenue is difficult to estimate in advance because of a complicated formula and funding triggers based largely on fluctuating mineral revenues.
- All remaining funds earmarked for projects from 2007, 2008, and 2009 surplus funds were carried forward and are shown as revenue for the purposes of the FY 2018 Annual Plan.
- Funding projections represent known avenues through which funding will be received. However, many uncertainties persist regarding the percentages and amounts of funding to be provided by the federal government and local sponsors. Should more dollars become available, the state will be able to expand its efforts and allocate these funds under the direction of the CPRA Board.

## Forecasting the Future Funding Picture

The Coastal Master Plan outlines projects for implementation over a 50-year planning horizon. To support this effort, the state is actively pursuing possible sources of funding that may be available over the next 50 years to support future coastal restoration and flood risk reduction projects. The *Deepwater Horizon* oil spill has the potential to be a significant source of funding in the coming years.

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## Flexibility to Respond to Changing Conditions

Revenue and expenditure projections in Tables 4-1 and 4-2 are based on the most recent available information. Tables 4-1 and 4-2 present a forecast based on a snapshot in time. However, as the *Deepwater Horizon* oil spill illustrates, the coastal program needs some degree of funding flexibility to enable the state to respond appropriately to changing conditions on the ground. The CPRA has been granted authority to reprogram dollars from approved funding streams and allocate the dollars to best meet new opportunities or needs. Reprogramming of existing and new funds will likely occur, with approval from the CPRA Board, to ensure that limited coastal program funds are allocated to the areas of greatest need and in a manner that will provide the greatest overall benefit to the coast. Such flexibility allows the coastal program to respond effectively to unforeseen events that take place outside the legislatively mandated planning cycle.

## LaGov

LaGov is a new statewide integrated financial and procurement system that CPRA began using July 1, 2014. This new system integrates financial, human resources, payroll, procurement, and logistics, and brings multiple benefits to CPRA, most notably, system generated project accounting. Other important advantages are better management of federal grants and other funding sources, improvements in managing vendor relationships, improved reporting, and more efficient business processes.

## ▶ Table 4-1: Projected Three-Year Revenues (FY 2018 - FY 2020)

Revenue Sources	FY 2018	FY 2019	FY 2020	Program Total (FY 2018 - FY 2020)
CPR Trust Fund Annual Revenue <sup>1,2</sup>	\$14,600,000	\$15,200,000	\$15,700,000	\$45,500,000
CPR Trust Fund Carried Forward	\$6,751,177	TBD	TBD	\$6,751,177
GOMESA <sup>1,3</sup>	\$140,000,000	\$140,000,000	\$140,000,000	\$420,000,000
GOMESA Carried Forward⁴	\$1,600,000	\$119,750,000	TBD	\$121,350,000
DOTD Interagency Transfer <sup>1</sup>	\$4,000,000	\$4,000,000	\$4,000,000	\$12,000,000
DOTD Interagency Transfer- Projects	\$73,600	\$0	\$0	\$73,600
CWPPRA Federal Funds⁵	\$96,384,103	\$75,904,989	\$76,500,081	\$248,789,173
Surplus '07, '08, '09 Carried Forward	\$161,284,403	\$26,000,310	\$7,054,375	\$194,339,088
Community Development Block Grants	\$9,806,680	\$11,680	\$0	\$9,818,360
Capital Outlay Funds	\$15,560,000	TBD	TBD	\$15,560,000
NRDA Revenues (Deepwater Horizon)	\$140,820,491	\$38,940,922	\$150,855,241	\$330,616,653
NFWF Revenues (Deepwater Horizon)	\$54,410,295	\$65,827,227	\$519,239,290	\$639,476,812
Proposed RESTORE Revenues (Deepwater Horizon)	\$61,718,000	\$48,206,637	\$132,798,175	\$242,722,812
LDNR Mitigation Funds <sup>6</sup>	\$500,000	\$500,000	\$500,000	\$1,500,000
LDNR Beneficial Use Funds <sup>6</sup>	\$250,000	\$250,000	\$250,000	\$750,000
LDWF Interagency Transfer <sup>7</sup>	\$1,000,000	\$0	\$0	\$1,000,000
MOEX Settlement <sup>8</sup>	\$704,687	\$131,250	\$704,687	\$1,540,624
Berm to Barrier <sup>9</sup>	\$98,972	\$14,600	\$21,680	\$135,252
OM&M Federal Funds <sup>10</sup>	\$29,048,815	\$17,423,395	\$15,467,305	\$61,939,515
FEMA Reimbursement for OM&M <sup>11,12</sup>	\$1,510,886	\$0	\$0	\$1,510,886
LOSCO Funding <sup>13</sup>	\$112,272	\$102,272	\$102,272	\$316,816
NAS Research Practice Grant <sup>14</sup>	\$200,000	\$200,000	\$200,000	\$600,000
Project Billing <sup>15</sup>	\$23,380,757	\$24,701,841	\$25,689,914	\$73,772,512
Capital Outlay Request Submitted for HSDRRS 30-Year Payback	\$0	\$0	\$98,000,000	\$98,000,000
Total Projected Revenue	\$763,815,138	\$577,165,122	\$1,187,083,020	\$2,528,063,280

## Notes

- 1. Annually recurring revenue source to be spent in accordance with the Louisiana Constitution, specifically State Law Section 214.5.4(E) and the provisions within paragraph (3).
- 2. Estimate tied to mineral revenue.
- 3. GOMESA funds must be disbursed to the applicable states by the end of the federal fiscal year. FY 2018 GOMESA funds are anticipated to be received between April 2018 (4Q18) and September 2018 (1Q19). Because the funds would arrive no earlier than the final quarter of FY 2018, nearly all 2018 GOMESA funding would be expended no earlier than FY 2019. Projects to receive GOMESA funding will be provided in the FY 2019 Annual Plan to ensure that proper clarity is available regarding the exact amount of available GOMESA funding, and also to ensure consistency with the 2017 Master Plan (which will be in effect at the time of receipt of GOMESA funding).
- 4. Represents carry-forward of unexpended funds from prior-year GOMESA payments.
- 5. Represents anticipated Federal reimbursement for CWPPRA projects led by CPRA in which the State is initially incurring more than its 15% cost share during project implementation.
- 6. Supplemental funding to augment construction of eligible projects (specific projects to be determined at a later date).
- 7. Supplemental funding to augment construction of project ME-0018.
- 8. Represents anticipated balance as of FY 2018 of an initial deposit of \$6.75 million of funds from the MOEX settlement.
- 9. Used to fund monitoring of constructed Berm to Barrier projects.
- 10. Represents anticipated Federal reimbursement for CWPPRA and WRDA OM&M activities led by CPRA in which the State is initially incurring more than its cost share during project implementation.
- 11. Represents anticipated reimbursement associated with recovery from past distasters which has been obligated by FEMA.
- 12. CPRA is pursuing FEMA recovery funding through the FEMA appeals process to restore the form and function of the Coastal Barrier Island Resource System (CBRS) units S01-S08 which were lost as a result of Hurricane Katrina. The cumulative cost of this restoration is estimated to be on the order of \$500 million.
- 13. Represents reimbursement of expenditures for CPRA (non-DWH) oil spill response activities.
- 14. Represents funding applied for in December 2016 to fund select Monitoring Data and Interpretations tasks (see Table 4-3).
- 15. Represents salary and other work-in-kind reimbursements for services performed on projects in funding programs listed in the table above.

## ▶ Table 4-2: Projected Three-Year Expenditures¹ (FY 2018 - FY 2020)

Program / Funding Source	FY 2018	FY 2019	FY 2020	Program Total (FY 2018 - FY 2020)
CWPPRA State Expenditures (not including Surplus expenditures) <sup>2</sup>	\$8,509,289	\$14,095,011	\$13,499,919	\$36,104,219
CWPPRA Federal Expenditures <sup>3</sup>	\$96,384,103	\$75,904,989	\$76,500,081	\$248,789,173
WRDA Project Expenditures (not including Surplus expenditures)	\$0	\$0	\$0	\$0
Surplus Projects and Program Expenditures	\$161,284,403	\$26,000,310	\$7,054,375	\$194,339,088
Community Development Block Grants	\$9,806,680	\$11,680	\$0	\$9,818,360
HSDRRS 30-Year Payback⁴	\$0	\$0	\$98,000,000	\$98,000,000
MOEX Project Expenditures	\$704,687	\$131,250	\$704,687	\$1,540,624
DOTD Interagency Transfer- HNC Deepening Expenditures	\$73,600	\$0	\$0	\$73,600
Capital Outlay Project Expenditures	\$15,560,000	TBD	TBD	\$15,560,000
State-Only Project Expenditures (Non-Surplus)	\$188,184	\$199,864	\$199,864	\$587,912
NRDA Expenditures (Deepwater Horizon)	\$140,820,491	\$38,940,922	\$150,855,241	\$330,616,653
NFWF Expenditures (Deepwater Horizon)	\$54,410,295	\$65,827,227	\$519,239,290	\$639,476,812
Proposed RESTORE Expenditures ( <i>Deepwater Horizon</i> ) (not including Surplus Expenditures)	\$61,718,000	\$48,206,637	\$132,798,175	\$242,722,812
LDNR Mitigation Expenditures <sup>5</sup>	\$500,000	\$500,000	\$500,000	\$1,500,000
LDNR Beneficial Use Expenditures <sup>5</sup>	\$250,000	\$250,000	\$250,000	\$750,000
LDWF Interagency Transfer Expenditures <sup>6</sup>	\$1,000,000	\$0	\$0	\$1,000,000
OM&M- State Expenditures (not including Surplus expenditures)	\$9,126,372	\$8,673,455	\$6,083,374	\$23,883,201
OM&M- Federal Expenditures <sup>7</sup>	\$29,048,815	\$17,423,395	\$15,467,305	\$61,939,515
OM&M- Marine Debris Removal (Partially Reimbused by FEMA) <sup>8</sup>	\$1,640,130	\$0	\$0	\$1,640,130
GOMESA Expenditures <sup>9</sup>	\$21,850,000	TBD	TBD	\$21,850,000
NAS Research Practice Grant Expenditures	\$200,000	\$200,000	\$200,000	\$600,000
Operating Costs (see Tables 4-3 and 4-4)	\$30,990,089	\$36,800,160	\$39,790,392	\$107,580,641
Total Planned Expenditures	\$644,065,138	\$333,164,899	\$1,061,142,703	\$2,038,372,740

## Notes

- 1. Represents proposed expenditures provided that commensurate level of funding is received.
- 2. Because CWPPRA projects compete for funding annually, CWPPRA expenditures as presented in Appendix B (which include projected expenditures for approved projects only) do not adequately capture likely CWPPRA expenditures in outlying years. The State's estimated CWPPRA expenditures for FY 2019 FY 2020 are therefore based on prior years' expenditures.
- 3. Represents anticipated Federal reimbursement for CWPPRA projects led by CPRA in which the State is initially incurring more than its 15% cost share during project implementation.
- 4. Payback is based on current HSDRRS construction schedule; payback will not commence until completion of HSDRRS construction activities. According to current USACE estimates, payback will commence in September 2019 with an estimated annual payment of \$98 million.
- 5. Supplemental funding to augment construction of eligible projects (specific projects to be determined at a later date).
- 6. Supplemental funding to augment construction of project ME-0018.
- 7. Represents anticipated Federal reimbursement for CWPPRA and WRDA OM&M activities led by CPRA in which the State is initially incurring more than its cost share during project implementation.
- 8. Represents anticipated reimbursement associated with recovery from past distasters which has been obligated by FEMA.
- 9. FY 2018 GOMESA expenditures include the GOMESA Infrastructure Program (\$14 million) and Adaptive Management expenditures (see Table 4-3). Projects to receive GOMESA funding will be provided in the FY 2019 Annual Plan to ensure that proper clarity is available regarding the exact amount of available funding and also to ensure consistency with the 2017 Master Plan (which will be in effect at the time of receipt of GOMESA funding).

▶ Table 4-3: Programmatic Projected Three-Year Expenditures (FY 2018 - FY 2020)

	s. Programmatic Projected Timee-16	ar Experier	tares (1 1 20		
Program ID	Program Name	FY 2018	FY 2019	FY 2020	Program Total (FY 2018 - FY 2020)
Ongoing Prog	gram Expenditures <sup>1</sup>				
N/A	Beneficial Use Program <sup>2</sup>	\$1,709,653	\$2,000,000	\$2,000,000	\$5,709,653
LA-0251	Barrier Island Maintenance Program <sup>2</sup>	\$2,644,359	TBD	TBD	\$2,644,359
N/A	Vegetative Plantings	\$400,000	\$400,000	\$400,000	\$1,200,000
PO-0162	Assistance to Levee Authorities	\$0	\$1,000,000	\$1,000,000	\$2,000,000
LA-0028	Restoration Partnerships	\$0	\$1,000,000	\$1,000,000	\$2,000,000
N/A	Project Support	\$2,700,000	\$3,000,000	\$3,000,000	\$8,700,000
Total Ongoing	Programs Expenditures	\$7,454,012	\$7,400,000	\$7,400,000	\$22,254,012
Adaptive Man	agement Expenditures				
Future Project	Development				
LA-0255	Project Development and Implementation Program	\$250,000	\$250,000	\$250,000	\$750,000
LA-0025	Innovative Programs	\$0	\$150,000	\$150,000	\$300,000
LA-0261	Non-structural Program Development <sup>2,3</sup>	\$500,000	TBD	TBD	\$500,000
Focused Appli	ed Research				
LA-0257	Louisiana Coastal Engineering, Research and Education⁴	\$40,000	\$0	\$0	\$40,000
LA-0158	Coastal Science Assistantship Program	\$200,000	\$385,000	\$385,000	\$970,000
N/A	Coastal Innovation Partnership Program	\$0	\$225,000	\$0	\$225,000
Science and Te	echnical Advisory Boards				
LA-0260	Master Plan Advisory Committees	\$0	\$0	\$300,000	\$300,000
Model Develo	pment and Refinement				
LA-0250	Master Plan Predictive Models <sup>5</sup>	\$1,650,000	\$2,500,000	\$4,000,000	\$8,150,000
MR-0016- SSPM	Small Scale Physical Model <sup>6</sup>	\$500,000	\$500,000	\$500,000	\$1,500,000
System Wide A	Assessment and Monitoring Program (SWAMP)				
LA-0252	SWAMP Development <sup>4</sup>	\$600,000	\$0	\$0	\$600,000
N/A	Fisheries <sup>6,7</sup>	\$5,800,000	\$6,000,000	\$6,300,000	\$18,100,000
N/A	SWAMP Implementation <sup>4,6,7</sup>	\$17,095,000	\$17,800,000	\$22,580,000	\$57,475,000
LA-0226	Barrier Island Comprehensive Monitoring <sup>5</sup>	\$1,405,300	\$735,300	\$1,927,159	\$4,067,759
LA-0030	CRMS-Wetlands	\$1,250,000	\$1,250,000	\$1,250,000	\$3,750,000
LA-0253	Flood Protection Inspections/Analysis <sup>5</sup>	\$1,800,000	\$2,700,000	\$2,800,000	\$7,300,000
N/A	Regional Geology and Sediment Management <sup>4</sup>	\$400,000	\$400,000	\$400,000	\$1,200,000
Data Manager	ment and Analysis				
LA-0258	Data Management <sup>4</sup>	\$2,400,000	\$2,400,000	\$2,400,000	\$7,200,000
LA-0254	Monitoring Data Interpretations <sup>4,6,7,8</sup>	\$1,200,000	\$1,050,000	\$1,050,000	\$3,300,000

## ▶ Table 4-3: Programmatic Projected Three-Year Expenditures (FY 2018 - FY 2020)

Program ID	Program Name	FY 2018	FY 2019	FY 2020	Program Total (FY 2018 - FY 2020)
Communicati	on and Messaging				
N/A	Workshop and Conference Development	\$150,000	\$150,000	\$150,000	\$450,000
LA-0249	Coastal Education⁴	\$600,000	\$600,000	\$600,000	\$1,800,000
<b>Total Adaptiv</b>	e Management Expenditures	\$35,840,300	\$37,095,300	\$45,042,159	\$117,977,759
TOTAL Progra	ammatic Expenditures	\$43,294,312	\$44,495,300	\$52,442,159	\$140,231,771
Programmati	c Surplus Expenditures (See Table B-5)	\$4,854,012	\$0	\$0	\$4,854,012
Programmati	ic NRDA Expenditures (See Table B-14)	\$11,550,000	\$13,387,579	\$16,479,325	\$41,416,904
Programmati	c NFWF Expenditures (See Table B-14)	\$7,650,300	\$5,780,300	\$4,795,000	\$18,225,600
Programmati	ic RESTORE Expenditures (See Table B-14)	\$10,040,000	\$9,517,421	\$11,755,675	\$31,313,096
Programmati	ic GOMESA Expenditures	\$6,250,000	\$8,000,000	\$9,600,000	\$23,850,000
Programmati	ic NAS Expenditures	\$200,000	\$200,000	\$200,000	\$600,000
Programmati	c Operations Expenditures	\$2,750,000	\$7,610,000	\$9,612,159	\$19,972,159

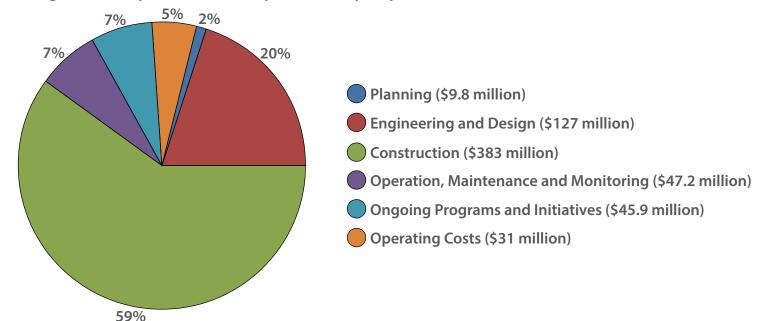
### Notes

- 1. FY 2018 expenditures for Ongoing Programs are significantly reduced because of lower incoming Trust Fund revenues relative to prior years. Future expenditures are anticipated to return to typical levels as additional funding becomes available.
- 2. FY 2018 expenditures funded by surplus funds.
- 3. FY 2018 expenditures will be used to develop a coordinated strategy for implementing nonstructural projects identified in the Master Plan for coastal communities. This may also include the development of pilot projects in coastal parishes with high levels of risk and vulnerability.
- 4. FY 2018 expenditures funded by RESTORE Adaptive Management Funds.
- $5. \hspace{0.5cm} \hbox{FY 2018 expenditures funded by GOMESA funds (provided funding is procured within the fiscal year)}. \\$
- 6. FY 2018 expenditures funded by NFWF Adaptive Management Funds.
- 7. FY 2018 expenditures funded by NRDA Adaptive Management Funds.
- 8. FY 2018 expenditures funded by NAS Research Practice Grant (see Table 4-1).

## ▶ Table 4-4: State Protection and Restoration Projected Three-Year Operating Expenditures (FY 2018 - FY 2020)

Program	FY 2018	FY 2019	FY 2020	Program Total (FY 2018 - FY 2020)
CPRA	\$23,751,770	\$24,701,841	\$25,689,914	\$74,143,525
OCM	\$2,827,134	\$2,827,134	\$2,827,134	\$8,481,402
Office of the Governor - Coastal Activities	\$1,476,185	\$1,476,185	\$1,476,185	\$4,428,555
DNR Secretary (OMF Back Office Support)	\$0	\$0	\$0	\$0
Office of the Attorney General	\$185,000	\$185,000	\$185,000	\$555,000
Total Operating Costs	\$28,240,089	\$29,190,160	\$30,178,233	\$87,608,482

## ▶ Figure 4-1: Projected FY 2018 Expenditures by Project Phase

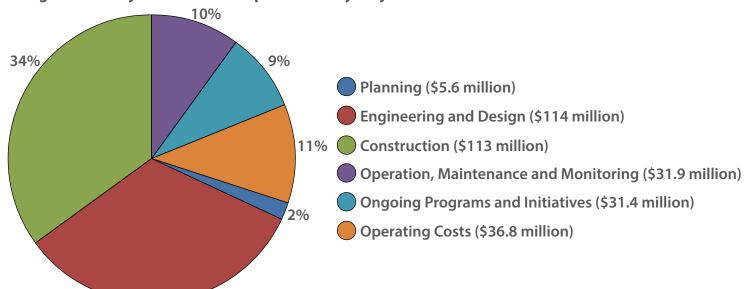


## **Notes**

- Construction includes Beneficial Use (\$1.7 million)
- OM&M includes BIMP (\$2.6 million), Repair/Rehabilitation of Projects (\$759,739), Marine Debris Removal (\$1.6 million)

## **\$644 million**

## Figure 4-2: Projected FY 2019 Expenditures by Project Phase



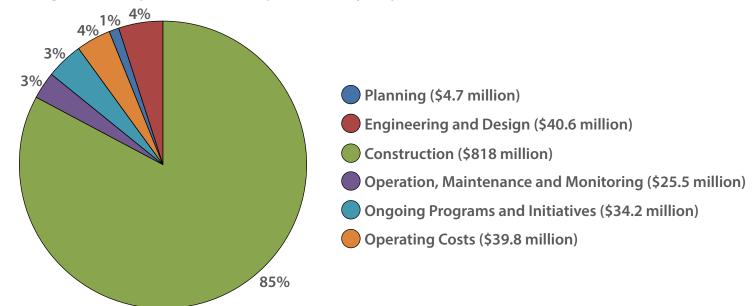
## **Notes**

- Construction includes Beneficial Use (\$2 million)
- Engineering and Design and Construction include CWPPRA adjustment for outlying years (see Table 4-2 for explanation)
- Expenditures do not include GOMESA funding (GOMESA expenditure forecast to be developed following receipt of funding)

34%

## **\$333 million**

## ▶ Figure 4-3: Projected FY 2020 Expenditures by Project Phase



## **Notes**

- Construction includes Beneficial Use (\$2 million)
- Engineering and Design and Construction include CWPPRA adjustment for outlying years (see Table 4-2 for explanation)
- Total excludes HSDRRS payback (\$98 million)
- Expenditures do not include GOMESA funding (GOMESA expenditure forecast to be developed following receipt of funding)









## Appendix A Ongoing Protection and Restoration Project Summaries

			-		ŀ					
	Number	Type	Sponsor		Benefited	Levee	Completion	2.5		,
Riverine Sand Mining/Scoffeld Island Restoration	BA-0040	НВ	NVA	PLAQUEMINES	909	N/A	2013	\$60,839,484	The goal of this project is to transport sediments from the Mississippi River to restore dune and marsh habitat on Scofield Island. Project was designed under CW PPRA but constructed using Berm to Barrier funds.	2
Shell Island East	BA-0110	НВ	N/A	PLAQUEMINES	626	NIA	2014	\$47,679,580	The purpose of the project is to restore the integrity of Shell Island, reduce wave energies within the bay area and reestabilish productive habbat to be safeting by an expension of the state of the service are surrounding area. She island east was constructed to a finght opportunately 2.8 miles, a dune behadion of *80 fiet NAVD88 a rinastic language, a marsic language, each of the NAVD88 and a total if area of 526 acres.	2
Emergency Barrier Berms	N/A	то	N/A	PLAQUEMINES, SAINT BERNARD	1417	NIA	2011	\$251,000,000	In response to the Debywaker-Horzon of spil of (2010), the State of Louisians constructed approximately. To most the same of search between several se	1,2
Lafitte A rea Levee Repair	BA-0082	£	HUD	JEFFERSON	N/A	4	Pending	\$500,000	This project will repar damages to the existing levees in the Fisher Basin Area. This damage was caused by heavy equipment and wyshite eused for the levee for flood fighting activities during the and Gustav. This project will provide for a 4 inch lift on approximately a final archery in levee.	2
Rosethorne Wetland Assimilation Project	BA-0083	¥	DOH	JEFFERSON	334	N/A	Inactive	\$1,093,769	The Rosethome treatment far thy currently discharges treated municipal effluent into Bayou Barataria. This project was intended to unlike secondarily treated municipal effluent diverted from the Rosethome treatment far lift, to restore and sustain coastal wetland habitats.	2
Bayou Lafourche Fresh Water District - Walter S. Lemann Memorial Pump Station Removations	BA-0084	FD	HUD	ASCENSION	NA	NIA	2014	\$3,194,355	This project will replace two of the existing purrys and motors at the Walter S. Lemann Pump Station. This project will also histall an emergency generator to operate the pump station during power outsages.	2, 3A
Madisonville Bulkhead	PO-0087	SP	DUH	STTAMMANY	N/A	0.1	2014	\$2,144,266	This project will provide construction of improvements to the existing bulkhead along the shore of Lake Pontchartrain and the Tchefunde Rher at the Madisonylle Marina.	-
St. Tammany Parish Watershed Management Study	PO-0151	¥	DUH	STTAMMANY	NA	NVA	NA	\$1,363,233	This project involves a planning study to evaluate the feasibility of watershed management measures in St. Tammary Parish.	-
Falgout Canal Road Levee	TE-0063	FD	ДЛН	TERREBONNE	N/A	4.4	2017	\$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 frestwater to flow under the existing roadway and proposed levee. The goal of the project is to restore project are assainfairles to besit that are standable for fresh and intermediate marshes and to ingrove the efficiency of freshwater flow within the hash area by readstalking the behavior and mornth-soult flow.	3,4
Cut-Off/Pointe Aux Chene Levee	TE-0078	£	DOH	LAFOURCHE	N/A	8	Pending	\$8,468,857	This project will fill in the missing gap that is currently in the existing levee system. The 2.5-mile levee will be constructed along Grand Barou and lie into the existing levee systems on each end.	3,4
Franklin Floodgate Sinkable Barge and Pump Station (Phase 1)	TV-0052-1	¥	ДЛН	STMARY	N/A	0.2	2012	\$4,591,380	This project involves the construction of a sinkable barge structure on Frankin Canal to prevent storm surge from hundating the town of Frankin.	88
Franklin Floodgate Sinkable Barge and Pump Station (Phase 2)	TV-0052-2	dН	ДЛН	STMARY	N/A	0.2	2015	\$2,148,866	This project will construct a pump station adjacent to the sankable bage structure on Frankin Canal (constructed in Phase 1 of the project) to prevent storm surge from hundaling the town of Frankin.	38
Flood Control Structure at Boston Canal (Deauthorized)	TV-0058	£	DOH	VERMILION	N/A	NVA	Deauthorized	\$5,800,000	This project invokes a flood control structure at the intersection of Boston Canal and the GWW, which could be closed in the event of a furnishment or tropic at storm intersection of Boston Canal and the GWW, that could be closed in the event of a humane or tropical storm.	88
Front Ridge Chenier Terracing/Protection	0900-AL	TE	ДЛН	VERMILION	40	NVA	Pending	\$2,078,162	This project will construct approximately 85,000 linear feet of marsh terraces south east of Pecan Island in Vermilion Parish.	4
Bayou Tigre Flood Control Project	TV-0067	윺	HUD	VERMILION	N/A	0.1	Pending	\$6,343,862	This project involves the implementation of flood control measures in Bayou Tigne.	4
Morgan City Industrial Road	AT-0005	OT	USFWS	STMARY	N/A	N/A	2015	\$1,247,000	The project is a road alignment that begins at the First Street floodgate in Morgan Cbr, LA. The alignment will proceed along the unprodected begins to the foreign the processor and the street of the foreign of the foreign and the foreign of the foreign of the foreign and the foreign of the	38
Atchafalaya Long Distance Sediment Pipeline	AT-0015	OT, MC	USFWS	TERREBONNE	N/A	NIA	N/A	\$1,500,000	CIAP funds allocated to this project are for the purpose of advancing the design of a sediment pipeline which will be used to restore marsh in lower Terrebonne Parish.	3A
Salvador Shoreline ction (Phase III)	BA-0015-X2	SP	USFWS	ST CHARLES	844	N/A	2009	\$2,300,000	This project involved the construction of approximately 7,000 linear feet of shoreline protection near the northwest shore of Lake Salvador.	2
East Grand Terre	BA-0030	нв	USFWS	PLAQUEMINES	683	NIA	2010	\$25,426,247	The project goals to restore 2.8 miles and 620 acres of barrier shoreline and 450 acres of marsh by dredging 3.3 million tubic yards of offstore material and rebuilding the island. The project was designed under the CMP PRA Program and constituted under the CMP program.	2
aria Land Bridge ated Dredqing (CIAP)	BA-0036	OM	USFWS	JEFFERSON	363	N/A	2010	\$18,000,000	The objective of this project is to create and or nourish 1200 acres of marsh in conjunction with CWPPRA project BA-36.	2
Long Distance Mississippi River Sediment Pipeline	BA-0043-EB	OM TO	USFWS	JEFFERSON,	371	NVA	2016	\$66,094,073	The goal of this project is to use material dredged from the Mississippi River and transported via new permanent pipeline across the Barataria Basin to create marsh and/or a dige.	2
Caminada Headlands	BA-0045	Н	USFWS	LAFOURCHE	730	NA	2014	\$70,679,580	The proposed project will restore and protect beach and dune habitat across the Caminada Headland through the direct placement of sediment (sandy material for the beach and dune habitat) from offshore borrow areas.	2
LA 1 Improvements - Fourchon to Leeville Bridge (CIAP)	BA-0055	10	USFWS	LAFOURCHE	N/A	N/A	2010	\$33,000,000	This project is totaled 60 miles south of New O'fears in lower Lafourche Paists between Leeville and Port Fourchon. The project inwolves the construction of a mile long, two lane besingth of public (two. 17 if a lanes and two, 18 if shoulders). The Phase IA project connects to the Phase IB and Phase IC projects (in Leeville) by relocation LA 1 on a new administry.	2
Fringe Marsh Repair	BA-0058	ЭМС	USFWS	PLAQUEMINES	300	N/A	2014	\$8,756,605	This program involves the reestablishment of approximately 300 acres of critical areas of fragile marsh in lower Plaquemines Parish to help minimize the continued fragmentation of wetlands system throughout the coast.	2
Mississippi River Water Reintroduction into Bayou Lafourche - BLFWD	BA-0161	FD	USFWS	ASSUMPTION, LAFOURCHE	Not A vallable	N/A	2016	\$20,000,000	This project estimated to about for the confluend electing of a 1.00 Cit channel for an additional -1.2 limits of Beyou Lafourche.  Overal project features identified for imprementation hickups a a receiving interaction to the Mississipin River a purmpisphon system with a contained dischange capacity of 1,000 cfs, a dischange settling pond/sediment basin in Bayou Lafourche at Donaldszeimie, mondification of viers structures; and safeting and page and cutture, immensing affaince, and relecting areas in the Personnel and Basinate Basin strongly reductions in the safinities and/or nouristiment of wetlands with the introduction and distribution of sediment and runtinest from the first.	2, 34
Shoreline Protection Cat Island	BA-0162-CAT	dS	SWJSO	PLAQUEMINES	40	NIA	Inactive	\$1,200,000	The special series of the section of the standard. The project was designed in the caregination of design activities in the careginate in order to standard the order of the standard standard series of the standard to order or the careginate in order to standard the order of the standard to order order or the careginate in order to standard the order of the standard order orde	2
Shoreline Protection Emergency Restoration	BA-0162-SPER	SP	USFWS	PLAQUEMINES	40	N/A	2013	\$355,780	This project consist of a series of submerged wave breaks surrounding shoreline segments in Lower Plaquemines Parish to profect the old damaged brinces along the settling stand remmants from further wave damage white also collecting seatment in order to naturally rebuild he degraded infrastructive of the seasons.	2
Bayou Lamoque Floodgate Removal (Inactive)	BS-0013-EB	FD	USFWS	PLAQUEMINES	099	N/A	Inactive	\$2,070,559	This project involves the removal of floodgates to allow unimpeded flow of fleshwater through the water control structures.	-
FIFilsland Restoration	CIAPFIFI	SP	USFWS	JEFFERSON	126	NIA	2003	\$751,406	This project worders protecting rapproximately 100 acres of existing island halt at (crand lase, 8 fit island) by the installation of approximately 10,000 linear feet of rock store protection. An additional \$999,500 was contributed from the CAP of 2001 for the construction and design of this project.	2
Marsh Creation via Bevefical Use (Phase 10 (Black Lake)	CS-0035-EB	WO	USFWS	CAMERON	300	NVA	2010	\$10,000,000	This project involves the creation of approximately 200 acres marsh through beneficial use of dredged material from the Calcasieu Ship Channel.	4
Trosclair Road Repairs	CS-0047	TO	USFWS	CAMERON	N/A	N/A	2009	\$2,039,592	This project involves construction an overlay on Trosclair Road, a parish road that is heavily used by oilfield traffic. The project is annowing about any connects state Liebway 2702 from Connects Related Historian 2702 from Connects Related Historian 2007 from Connects	4

			- 1								
CPRA Program	Name	State Project Number	Project Type	Federal	Parish	Acres Benefited	Miles of Levee	Construction	Total Budget	Project Description	Planning Unit
CIAP	Bush Canal and Bayou Terrebonne Bank Stabilization	DNR 2513- 0311	SP	USFWS	TERREBONNE	4300	N/A	2007	\$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 opeicalis fast and among with some fights. The rebuil bank-line will help to drinish storm surge as well as reduce salwater intrusion. This project was funded by the CARP of 2001.	3A
CIAP	Performance Evaluation - Barataria Land Bridge Biological Monitoring	LA-0012-2	TO	USFWS	JEFFERSON	N/A	NVA	NIA	\$432,618	n study will be conc iment application o	2
CIAP	Performance Evaluation - Freshwater Bayou	LA-0012-3	10	USFWS	VERMILION	N/A	N/A	NVA	\$286,029	This study fictures on the expected ventral elevation change of the decide stury iff due to immediate and brong term safiltenent and consolidation. Viol the promote treatment and consolidation, researching previous analyses perinoused to help improve our ability to predix safiltenent and consolidation; researching the method strongs and techniques that could improve now. PCRA design teams predix safiltenent and consolidation researching researching treatment and consolidation analyses performed during preparation to monitoring shall be performed to verify the accuracy of the settlement and consolidation analyses performed during project design.	3A
CIAP	CIAP Performance Evaluation - Barrier Island Studies	LA-0012-5	T0	USFWS	JEFFERSON, LAFOURCHE	N/A	N/A	N/A	\$558,606	Evaluation of Tidal Pass Morphology Post-Restoration at East Grand Terre and Development of Barrier Island Comprehensive Monitoring Program vegetation sampling protocols.	2
CIAP	CIAP Performance Evaluation - Caminada Moreau Subsidence Study	LA-0012-6	ТО	USFWS	JEFFERSON, LAFOURCHE	N/A	N/A	NIA		Research to be conducted on the Caminada Headiand in order to quantify the amount of consoldation in the substrate underlying barrier islands resulting from placement of sand for island restoration.	2
CIAP	CIAP Performance Evaluation - Borrow Area Management and Monitoring	LA-0012-7	10	USFWS	COASTWIDE	N/A	N/A	NA	\$813,512	The Borrow Area M ontoring and Management (BA MM) was intiated to understand the evolution of borrow pits for restoration projects (richstone, reastrone) and officine) were time, with a particular force on the finding diges and types of seaffrend, and gradent of fits pit-slopes as well as potential dredge impacts. The study involves the collection of geophysical, gottechnical and water quality data from several borrow areas to understand not only the above ovjectives but also the hypoxic conditions vise-àvis depth of cut of borrow area.	COASTWIDE
CIAP	Coastal Forest Conservation Initiative	LA-0013	PP, OT	USFWS	COASTWIDE	40000	NA	N/A	\$20,166,136	A program to preserve existing coastal forest via purchase of fee title or conservation servitudes from willing land owners.	COASTWIDE
CIAP	Rockefeller Shoreline Protection Demo (CIAP)	ME-0018-EB	SP	USFWS	CAMERON	23	NVA	2009	000'009'8\$	The project involves the construction of three types of shoreline protection structures as a demonstration to determine which type(s) of structures are successful in protecting the shoreline. Successful structure(s) are intended for use in a larger CWPPRA Project.	4
CIAP	Grand Lake Shoreline Protection (CIAP)	ME-0021-EB	SP	USFWS	CAMERON	495	N/A	2010	\$9,129,919	This project involves the construction of approximately 37,800 linear feet of shoreline protection on the south shore of Grand Lake from Superior Canal to Tebo Point.	m 4
CIAP	Mississippi River Delta Strategic Planning - SSPM Expansion	MR-16-SSPM	ОТ	USFWS	EAST BATON ROUGE	NA	NIA	2017	\$13,520,000	This project whoves the construction of a new exampled Small Sche Physis and Model (SSPM). The puriet whoves the construction of a new example of the project will also include the construction of a new facility to nouse the model as well as facilitate the use of the model for public outfracth the educational enforts. The project will be a valuable be usually and research forto providing insight and qualathee understanding of critical aspects of the impacts of major diversions of water and seafments, future conditions, and navigation impacts.	1, 2, 3A
CIAP	Violet Diversion	PO-0035-EB	FD	USFWS	ST BERNARD	13200	N/A	NIA	\$1,170,982	This project investigates the diversion of freshwater from the Mississippi River into Lake Borgne to freshen Mississippi Sound, Central Wetlands, and Bloxi Marsh areas. The Feasibility Study for this project is being done as part of the MROO Ecosystem Restoration FS.	- T
CIAP	Orleans Land Bridge SP & M arsh Creation	PO-0036-EB	SP	USFWS	ORLEANS	140	NA	2013	\$20,860,000	This project provides shoreline protection on the northwest rim of Lake Borgne west of Aligator Point.	1
CIAP	East LaBranche Shoreline Protection	PO-0043	SP	USFWS	STCHARLES	Not Available	N/A	2016	\$3,753,816	Through various funding mechanisms, including CWPPRA and OAP, at but approximately 18,000 linear feet of the East LaBranche shoreline label more than the East LaBranche shoreline label more than the East LaBranche Shoreline Protection). The State has contributed additional \$2,000,000 in CAP funding to construct shoreline protection, the State has contributed additional \$2,000,000 in CAP funding to construct shoreline protection for the most official aleas.	e ct
CIAP	Central Wetlands Demonstration	PO-0073	HR	USFWS	ST BERNARD	10-20	N/A	2016	\$3,500,000	This demonstration project investigates the beneficial use of Ferrate as an atternative to chlorine to treat effluent at the SWBNO's East Bank Sewer Treatment Plant.	1
CIAP	Central Wetlands - Riverbend	P O-0073-1	HR	USFWS	ST BERNARD	346	N/A	2015	\$2,000,000	This project involves the discharge of effluent from a CWBNO oxidation plant to be discharged into the Central Wellands. This would also save St. Bernard Farish the cost of running a sewer the from the Disdation plant to the Munster Plant.	-
CIAP	Central Wetlands - EBSTP to A 2	P 0-0073-2	HR	USFWS	ST BERNARD, ORLEANS	473	N/A	Inactive	\$4,500,000	This project involves the introduction of freshwater from the SWBNO's East Bank Sewer Treatment Plant to combat sait water intrusion from MRO and thus attent to replicate the introduction the form the project involves piping treated efficient from the EBRFT to St. Bernard pasts and vergetable palmics to notifies and sustain marsh.	п -
CIAP	Central Wetlands Demonstration Expansion	PO-0073-3	H	USFWS	ORLEANS	17.2	NIA	2016	\$4,500,000	The Central wellands Demonstration Expansion project would refer to the 15 person of the wellands in sea designated A-1 using wellands assemishing in or friesde well-welland in the 15 person to the 15 person of the 15 person to the 15 person of the 15 person o	1
CIAP	Living Shoreline	PO-0148	SP	USFWS	ST BERNARD, JEFFERSON, ORLEANS	5340	N/A	2017	\$26,500,000	The primary project twokes the construction of bioenphaseed oyster reds abong coastal frings marsh in St. Bernard Parish. The installation will take place from Elb Point to the mouth of Bayou La Loute around Lydia Point and Paulina Point eleterfing around the southen shore of Treasure Bay. Other related Lining Shrowthie projects are in Plaquemies 5 arish and Jefferson Fairsh.	1,2
CIAP	Rainey Audubon Wildlife Sanctuary Earthen Terraces	RAINEY	OWIC	USFWS	VERMILION	640	NVA	2005	\$951,869	The project consists of constructing approximately 35,000 linear feet of terraces. The terraces were created by dredging in shallow open water areas and pilling the spoil on one side of the borrow area. An additional \$391,763 was confibrited from the CAR of 2001.	38
CIAP	GIWW Bank Restoration of Critical Areas of Terrebonne (CIAP)	TE-0043-EB	SP	USFWS	TERREBONNE	1,180	N/A	2011	\$7,274,676	The project objective is to restore critical lengths of deterrorated channel banks and stabilize/armor selected critical lengths of deteriorated channel banks with hard shoreline stabilization materials.	38
CIAP	Freshwater Bayou Bank Stabilization	TV-0011-B-EB	SP	USFWS	VERMILION	223	N/A	2014	\$13,568,804	The goal of this project is to stop encison along the bank of Freshward Bayou Caral and to protect the interior wetlands from safwader intrustom, measoed that extenge and wake induced encison. This will be achieved by constructing a rock dike along critical areas of the eastern and weeken failts of the castle.	38
CIAP	Port of Iberia Bridge Replacement - Port Road over Commercial Canal	TV-0028	ОТ	USFWS	IBERIA	NA	N/A	2013	\$625,792	This project involves the replacement of the bridge on Port Road over Commercial Canal at the Port of lastia. The Port of theris handes standard and nound of OCS produced products and the large equipment used in transporting these products lake a major toll on the ports bridges and address.	38
CIAP	Port of Iberia Bridge Replacement - David Dubois Road over Commercial Canal	TV-0030	то	USFWS	IBERIA	N/A	N/A	2013	\$1,058,013	This project who wees the replacement of the bridge on David Dubois Road over Commencial Canal at the Port of there. The Port of Iteria handles a substantial amount of OCS produced products and the large equipment used in transporting these products takes a major from the port's bridges and tradeways.	38
CIAP	Acadiana Regional Airport Street Improvements - Admiral Doyle Drive	TV-0031	ОТ	USFWS	IBERIA	N/A	N/A	2016	\$1,114,942	This project involves patching and overlaving 5.310 feet (about 1 mile) of Admiral Doyle Road around the Acadana Regional Arport in liberia Parish from its intersoriou with L4 5.312 to the end of the four hier section. The project provides improved access to both the arrord and the Port of liberia, both of Whitel, support OCS fastilines and commerce.	38

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CPKA Plogiam	Name	Number Number	Type	Sponsor	Fallsii	Benefited	Levee Immoved	Completion	i otal buaget	Project Description	Flaming Offic
CWPPRA	Atchafalaya Sediment Delivery	AT-0002	OS .	NMFS	STMARY	2232	N/A	1998	\$2,532,147	The objective of this project is to enhance natural delta growth by re-opening Matal Channel and Castille Pass. Natal Channel was re- established with a 120-foot wide, 10-foot deep, 8,800-foot fong channel and Castille Pass with a 190-foot wide, 10-foot deep, 2,000- foot bing channel. Material dredged (700,925 cubic yards) as a result of construction was strategically placed at elevations mimicking natural defait botes.	99
CWPPRA	Big Island Mining	AT-0003	DM	NMFS	STMARY	1560	NIA	1998	\$7,077,404	The project includes creating a new western detail obe behind Big island to enhance the accretion of land beyond the west bank of the Atchafajay Barker. Construction included dredging of a nain stem and five branch channels designed to minic natural channel burrations. Dredged material was strategically placed at elevations minicking natural data lobes. Re-opening the channels is allowing continued returnal sediment franciog and marsh growth.	3B
CWPPRA	Castille Pass Channel Sediment Delivery (Deauthorized)	AT-0004	SD	NMFS	ST MARY	589	N/A	Deauthorized	\$1,717,883	This project investigates dredging a system of distributary channels to create 589 acres of marsh through sediment placement and natural deposition.	38
CWPPRA	GIWW (Gulf Intracoastal Waterway) to Clovelly Hydrologic Restoration	BA-0002	Ŧ	NRCS	LAFOURCHE	175	NVA	2000	\$12,896,358	The project includes the construction of features (including canal plugs, rock weirs, fixed crest weirs with boat bays, one variable crest weirs with boat bays, one variable crest weirs with boat bays. The trave ended way) in eastern Lafourche Parish to restore the area to the hydrologic conditions that prevaled chistorically.	2
CWPPRA	Naomi Outfall Management	BA-0003-C	WO	NRCS	JEFFERSON	634	N/A	2002	\$2,285,972	The project manages the outfail of the existing eight sphons by controlling the movement of the diverted waters. The siphons diverted seafment against a seafment-laten water from the Mississipp River into the west bank weltands to retard saltwater intrusion and enhance weltand nonductivity.	2
CWPPRA	West Pointe a la Hache Outfall Management (Deauthorized)	BA-0004-C	£	NRCS	PLAQUEMINES	646	NVA	Deauthorized	\$6,620,516	The project goal is to optimize use of fresh water and sediment supplied by existing siphon by reducing channelized flow and routing the diverted flow to nourish marshes. Project was deauthorized in 2015.	2
CWPPRA	Lake Salvador Shore Protection Demonstration	BA-0015	SP	NMFS	STCHARLES	NA	N/A	1998	\$5,856,506	The oblestive of this project is no marken the shortene about a servin or Class of Sadarot and their oversibility the natural involvious or interferomens. Plasse for the project was conducted to demonstrate the effectiveness of four separate kypes of segmented to the project was conducted to demonstrate the effectiveness of four separate kypes of segmented the included the installation of 8,000 feet of continuous nock structure along the western serfain of the late.	2
CWPPRA	Fourchon Hydrologic Restoration (Deauthorized)	BA-0018	H		LAFOURCHE	NA	N/A	Deauthorized	\$7,703	The post of this project was to restore tidal exchange to 2,400 acres of impounded wetlands. The project was officially deauthorized by the CWPPRA Task Force in July of 1994 at the request of the landowner.	2
CWPPRA	Barataria Bay Waterway Wetland Restoration	BA-0019	MC	USACE	JEFFERSON	510	NVA	1996	\$1,170,000	The project beneficially used dredge material to enlarge Queen Bess Island.	2
CWPPRA	Jonathan Davis Wetland Protection	BA-0020	HR, SP	NRCS	JEFFERSON	510	N/A	2003, 2012	\$28,886,616	The goal of this project is to restore the natural hydrobogic conditions of the area and reduce shoretine eroston. The goal was partly accomplished through constructing a series of water control structures. Construction unit 4 consists of 4,180 if of rock the rap resement, 15,110 if of concrete streetile wall, plugs and marsh creation.	2
CWPPRA	Bayou Perot/Bayou Rigolettes M arsh Restoration (Deauthorized)	BA-0021	Σ Ω	NMFS	JEFFERSON	1065	N/A	Deauthorized	\$20,964	This project was authorized to protect deteriorated intermediate-to-brackish marsh located between Lake Sakador and Little Lake by using deagaged markation breastolist the storetine. Due to au unstable and spidy eroding site, the project was deemed unfeasible and was officially deathorized by the CWFPRAT ask force in Januar or 1998.	2
CWPPRA	Bayou L'Ours Ridge Hydrologic Restoration (Deauthorized)	BA-0022	Ŧ	NRCS	LAFOURCHE	737	NVA	Deauthorized	\$371,232	This project was proposed to restore natural hydrologic flow to the marsh by reinforcing breached areas of the Bayou L'Ours Ridge infrincing nations of crain flow was the control structures. The project was officially deauthorized by the CWP PRA Task force in Anni 2003 because of landmist issues.	2
CWPPRA	Barataria Bay Waterway West Side Shoreline Protection	BA-0023	SP	NRCS	JEFFERSON	1789	NVA	2000	\$3,304,787	The project bejective is to rebuild the west bank of the Dupree Cut to profect the adjacent marsh from unnatural water exchange and subsequent erosion. A rock dike was constructed along 9,400 linear feet of the west bank of the Barataria Bay Waterway.	2
CWPPRA	Myrtle Grove Siphon (Deauthorized)	BA-0024	FD	NMFS	PLAQUEMINES	NIA	NVA	Deauthorized	\$481,802	The goal of the project is to reduce salwater intrusion and to nourish existing marsh. This will be accomplished by diverting water through a spacin front his flower by alderer wellands. The project was officially deauthorized by the CWPFPRA Task Force in orbote-2007 because a larger diversion was authorized at the same location (see BA-33).	2
CWPPRA	Bayou Lafourche Siphon (Deauthorized)	BA-0025-A	FD	EPA	LAFOURCHE	428	NVA	Deauthorized	\$45,922	The goal of the project is to reduce marsh loss adjacent to Bayou Lafourche by introducing nutrient and sediment laden river water through large sighon pipes. This project was reauthorized on the 11th PPL as BA-25b.	2
CWPPRA	M Ississippi River Reintroduction Into Bayou Lafourche (Deauthorized)	n BA-0025-B	FD	EPA	ASCENSION, ASSUMPTION, LAFOURCHE, TERREBONNE	85000	N/A	Deauthorized	\$9,619,586	The goal of the project is to restore and protect the health of marshes in the Barataria and Terrebonne basins through reintroduction of sediment and nuttient laden Mississipp River water via Bayou Lafourche. This project was outlied the or the Sin PPL as BA-25. This project was outlied by deadthorted by the Breaux Act Task Force in October 2007; however, engineering and design will be continued by the CPRA using after funds.	2
CWPPRA	Barataria Bay Waterway East Side Shoreline Protection	BA-0026	S.	NRCS	JEFFERSON	217	NVA	2001	\$5,224,477	The objective of this project is to rebuild the banks of the BBWW to protect the adjacent marsh from excessive tida action and assawaer influsion. The project consists of 17,000 (3.3 males) of levee constructed with dredged material from the BBWW; and 17,000 (3.3 males) of rock armor.	2
CWPPRA	Barataria Basin Landbridge Shoreline Protection, Phases 1 and 2	BA-0027	S P	NRCS	JEFFERSON	1304	N/A	2009	\$31,288,623	The objective of the project is to select a cost-effective erosion control technique to stop the erosion on the southwestern shoretine of Bayou Rigolattes. The length of protection is estimated to be approximately 71,000 feet.	2
CWPPRA	Barataria Basin Landbridge Shoreline Protection, Phase 3	BA-0027-C	SP	NRCS	JEFFERSON, LAFOURCHE	5587	N/A	1999, 2008, 2017	\$46,231,597	The project tested sections of different shoreline protection types, such as, concrete panel wal, rock and ight rock. These projects have constructed over 41,000 feet of shoreline protection.	2
CWPPRA	Barataria Basin Landbridge Shoreline Protection Phase 4	BA-0027-D	SP	NRCS	JEFFERSON	589	N/A	2006	\$17,709,216	This project consists sof 31,500 feet of foreshore not; dike with a lightweight aggregate core or concrete sheepile and will incorporate Yish dips" and openings at historic natural channels to eliminate shoreline erosion and deterioration of the Baralaria landoridge.	2
CWPPRA	Vegetative Plantings of a Dredged Material Disposal Site on Grand Terre Island	BA-0028	٧٨	NMFS	JEFFERSON	127	NVA	2001	\$526,314	This project invoked the installation of vegetablive plantings on previously constructed marsh and dune platform.	2
CWPPRA	LA Highway 1 M arsh Creation (Deauthorized)	BA-0029	MC	EPA	LAFOURCHE	146	N/A	Deauthorized	\$250,257	The objective of this project was to create marsh habital in a large open water area adjacent to Louisana Highway 1 using dredged material fail from the proposed formow areas. This project was officially deauthorized by the CWPPRA Task Force in February of 2005 because it was determined to be fifested.	2
CWPPRA	EastM est Grand Terre Islands Restoration (Transferred)	BA-0030	MC	NMFS	JEFFERSON	403	N/A	Transferred	\$2,211,739	The goal of this project is to stabilize and benefit 1,575 acres of barrier island hald at and extend the island's file expectancy. Dredged making his bread to reade dune and marsh habitat on East Grand Terre island. This project was constructed using CMP 2007 funds.	2
CWPPRA	Detta Building Diversion at Myrtle Grove (Transferred)	BA-0033	SD	USACE	JEFFERSON, PLAQUEMINES	8891	NIA	Transferred	\$327,422	The objective of this project is to divert Mississippil River water and sediment for the creation of new emergent wetlands. The project will provide installation of gated box cubrefts on the west bank of the Mississippi River in the vicinity of Myrille Grove, dediciated diedging from the Mississippi River to create marsh in the vicinity of Bayou Dupont, the Bardaria Bay Waterway, and the Wikinson Canat, or a combination of these actions. This project was transferred to the LCA Program.	2
CWPPRA	Mississippi River Reintroduction Into Northwest Barataria Basin (Transferred)	n BA-0034	FD	EPA	ST JOHN THE BAPTIST, ST JAMES, LAFOURCHE	5134	N/A	Transferred	\$17,098,769	The goal of this project is to restore the natural hydrobgic regime and add nutrients to adjacent swamp areas. The project would utilize a freshwater detersion/spinor from the Mississippi Rivert o northwest Barafana Basin wetlands with gapping of spol banks and placement of culverts under LA Highway 20. The scope of the project was changed and the revised project was re-numbered BA-34-24. 2.	2
CWPPRA	Hydrologic Restoration and Vegetative Plantins in the Lac des Allemands Swamp	BA-0034-2	HR, VP	USFWS	ST JOHN THE BAPTIST, ST JAMES, LAFOURCHE	5134	N/A	Pending	\$14,355,710	The goal of this project is to restore the natural hydrologic regime and add nutrients to adjacent swamp; areas via hydrologic restoration. Project features include the implementation of spoil bank gaps, culverts, and other hydrologic improvements for the impounded swamps to reverse the impoundrent effects that are currently serious impediments to swamp health	2
CWPPRA	Pass Chaland to Grand Bayou Pass	BA-0035	НВ	NMFS	PLAQUEMINES	359	N/A	2009	\$46,414,530	This project involved the creation of a dune and marsh platform on the north side of the Gulf of Mexico adjacent to Bay Joe Wise. Sand fencing and vegetation were installed.	2
CWPPRA	Dedicated Dredging on the Barataria Basin Landbridge	BA-0036	O W	USFWS	JEFFERSON	2800	N/A	2010	\$36,281,893	Approvimate, 258B,000 cubic yards of material was placed in two contained mash creation areas to construct approximately 1.2/11 acres of intentidal mash at a final elevation of 4.2.5 NAVD 88. Approximately 3,901,000 cubic yards of material was placed in adjoining flares to noutifal approximately 1,578 acres of marsh.	2
CWPPRA	Little Lake Shoreline Protection/Dedicated Dredging Near Round Lake	BA-0037	MM, SP	NMFS	LAFOURCHE	713	N/A	2007	\$44,931,412	This project is designed to protect area wetlands, which currently experience high rates of shoreline erosan. This project protects approximately 21,000 feet of Little Lake shoreline, create 488 acres of intentidal wetlands, and nourish an additional 532 acres of fragmented, subsiding man.	2
CWPPRA	Pelican Island and Pass La Mer to Chaland Pass Restoration	r BA-0038	BH, VP	NMFS	PLAQUEMINES	1117	NA	2012	\$52,893,695	The objectives of this project are to create barrier island habitat, enhance storm-telated surge and wave protection, prevent overtopping during storms, and increase the volume of sand within the active barrier system. This project was first authorized on the 9th PPL as Barrier island Restoration Grande Terre to SW Pass (BA-32). Construction of the Pass La Merto Chaland Pass Restoration segment was completed in 2010;	2

	State Project	Project	Federal	Parish	Acres	Miles of	Construction	Total Budget	Miles of Construction Total Budget Project Description	Planning Unit
	Number		Sponsor		Benefited	Levee	Completion			
M ississippi River Sediment Delivery System - Bayou Dupont	BA-0039	W W	EPA	JEFFERSON, PLAQUEMINES	577	NIA	2010	\$31,631,908	The goal of this project is to createrrestore 493 acres of brackish marsh by delivering via pipeline, dredged material from the Mississippi River to an adjacent area within the Barataria Bash, and planting marsh vegetation.	2
Rivering Sand Mining/Scoffeld Island Restoration Cransferred)	1 BA-0040	ä	NMFS	PLAQUEMINES	234	NIA	Transferred	\$40,851,272	The goals of this project are to repair breaches and tidal inlets int eh storeline, reinforce the wisting shoreline with sand, and increases the sand with with back barrier marsh creation to increase longerly. This project was transferred to the Berm to Barrier Program for constitution.	2
South Shore of the Pen Shoreline Protection and Marsh Creation	sh BA-0041	SP, MC	NRCS	JEFFERSON	211	NVA	2012	\$21,639,575	This project involves the construction of approximately 1,000 feet of concrete pile and panel wall and 10,900 feet of rock revetment along the south stone of The Pen and Bayou Duport. Delic after dredging was used to create approximately 14 acres of marsh, and nourish an additional 1013 excess of marsh, within the triangular area bounded by the south shore of The Pen, the Barataia Bay Waterway (Dupor Cut) and the Creote 6s Preferinc Canal.	2
Lake Hermitage Marsh Creation	BA-0042	TE, SP. MC	USFWS	PLAQUEMINES	438	NVA	2015	\$40,538,484	The goals of this project are to create approximately 438 acres of wetlands, reduce tidal exchange in marshes surrounding Lake Hermitage using material dredged from the Mississippi River.	2
West Pointe a la Hache Marsh Creation	h BA-0047	MC	NRCS	PLAQUEMINES	203	NIA	2015, Transferred	\$15,671,708	The goal of this project is to creaternourish marsh using sediment hydraulically dredged from the Mississippi River and pumped via openine to the project area. The project was constructed as part of BA-0042.	2
Bayou Dupont Marsh and Ridge Creation Project	BA-0048	MC	NMFS	JEFFERSON	317	NIA	2016	\$38,324,646	This marsh and ridge creation project will nourish approximately 118 acres of marsh and create 15 acres of maritine ridge by long distance pumping of Mississippi River sediment.	2
and Ridge	BA-0068	HB	NMFS	PLAQUEMINES	502	NA	2015	\$41,872,785	This project will create 328 about acres of marsh, nourish about 140 acres of marsh and build about 20,000 if of ridge.	2
Cheniere Ronquille Barrier Island Restoration (Transferred)	BA-0076	Ħ	NMFS	PLAQUEMINES	398	NVA	Transferred	\$51,145,769	The project goal is to maintain shoreline integrity and create and restore saline marsh on Chemier Ronquile. The project hvolves described decidence of the project hvolves described of the measistore Guif deposits to creat saline marsh in open water areas and nountish 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.	2
Northwest Turtle Bay Marsh Creation	BA-0125	MC	USFWS	JEFFERSON	407	NIA	Pending	\$24,448,757	This project involves the creation of approximately 423 acres and nourish approximately 337 acres of marsh using sediment dredged from Turtle Bay or Liftle Lake. Existing canal spoil banks, emergent marsh, and limited segments of containment offices will be used to guide the distribution of the dredged material. Containment dikes will be degraded as necessary to resistalish hydrologic connectivity with advancement welfants.	2
Bayou Dupont Sediment Delivery- Marsh Creation 3	BA-0164	OW	EPA	PLAQUEMINES, JEFFERSON	302	NIA	Pending	\$39,529,163	This project involves dedicated dredging from the Mississippi River to create and nourish 415 acres of marsh.	1
ands Back	BA-0171	OM	EPA	LAFOURCHE	430	NIA	Pending	\$32,284,094	This project involves the creation of approximately 300 acres of back barrier intertidal marsh and nourishment of 130 acres of emergent marsh behind 3.5 miles of the Caminada beach using material dreduct from the Guiff of Mexico.	2
Bayou Grande Cheniere Marsh and Ridge Restoration	sh BA-0173	MC	USFWS	PLAQUEMINES	264	NIA	Pending	\$30,311,402	The goal of this project is to re-create approximately 342 acres of marsh habitat in the open water areas and nounsh marsh along the eastern side of the Bavou Grande Chenier indoe, as well as create 12 acres of forested coastain doe habitat.	2
Carrinada Headlands Back Barrier Marsh Creation Increment 2	BA-0193	Ħ	EPA	JEFFERSON, LAFOURCHE	444	N/A	Pending	\$25,977,605	In addition to having one of the highest shoeline retreat raies in Louisana, Carrinada Headand has suffered significant shoreline losses due to benefit hurshames. As the beach and outer continue for mirgular advanct, overwards admirately advit no newly formed open waters areas. Carrinada Headand defenciation threatens flourands of acres of wetlands and critical infrastructure to the north, including Port Fourchon, LA Highwy 1, and the lower Lafourche levee system. This project will create and/or nounish 444 acres of back barner intellar marsh and extend a platform upon which the basch and dune can migrate. This project will work synergistic ally with esisting Carrinada Headand Louis and back barner masts projects.	2
East Leeville Marsh Creation and Nourishment	BA-0194	MC	NOAA	LAFOURCHE	482	N/A	Pending	\$34,880,876	The project goal is to create approximately 358 acres and nourish 124 acres of saline marsh east of Leeville.	2
Barataria Bay Rim Marsh Creation and Nourishment	BA-0195	MC	NRCS	PLAQUEMINES, JEFFERSON	517	N/A	Pending	\$23,545,026	The goal of the project isto create approximately 251 acres of marsh and nourish approximately 266 acres of marsh (517 acres total) with decided material from Barahaia Bar.	2
rsion Outfall	BS-0003-A	MO	NRCS	PLAQUEMINES	802	NIA	2002	\$4,536,000	The primary objective of this project is to enhance marsh by increasing the utilization of freshwater, nutrients, and sediments provided by the Missission River Inhough the Caemaron Freshwater Diversion Structure.	-
White's Ditch Ouffall Management (Deauthorized)	BS-0004-A	MO	NRCS	PLAQUEMINES	N/A	N/A	Deauthorized	\$32,862	This project was designed to direct the flow of Mississippi River nutrients and sediment into the deteriorating wetlands in the Breton Sound Basin that are not directly benefited by the Caernarvon Freshwater Diversion project. Because of the failure to secure landingths after project was officially deauthorized by the CWPPRA Task Force in January of 1999. This project was reauthorized on the 14th PPL AS BEST.	Ţ
Grand Bay Crevasse (Deauthorized)	BS-0007	gs	USACE	PLAQUEMINES	NA	N/A	Deauthorized	\$65,747	Project goas included construction of a rock-lined opening through the rocks at the head of the Jurjevich Caral in order to establish a pathways and extracting the construction of an order of several insolvers and enterine verticates in the area. The project was unknown because understance verticates in the area. The project was unknown because of radional parts are as a few and a few and a several parts.	-
Upper Oak River Freshwater Siphon (Deauthorized) Phase	1 BS-0009	FD	NRCS	PLAQUEMINES	NA	NVA	Deauthorized	\$56,476	The primary goal of his project was to reverse the trend of intentor marsh detendration in the project area due to salwater intrusion through installation of a freshwater sphon and outfall channel. These strategies would have provided freshwater, nutrients, and sediment to enhance marsh health. The project was officially deauthorized by the CWPPRA Task Force in January of 2003 because of landingities issues.	1
Delta Building Diversion North of Fort St. Philip (Deauthorized)	bS-0010	GS	USACE	PLAQUEMINES	543	NVA	Deauthorized	\$1,178,640	A diversion channel will be constructed along the left descending bank of the Mississippi River up stream from Fort St. Philip. The channel will be constructed mainly through shallow open water and will te into the Mississippi River.	-
Delta Management at Fort St. Philip	BS-0011	SNT	USFWS	PLAQUEMINES	267	NVA	2006	\$3,199,948	The objective of the project is to enhance the deta-building process occurring due to the crevasse at Ford St. Philip. Six artificial reversesse water constructed to whether tenswater and sediment into a assest currently bushis or material rigges and linear vegatated tenses were constructed to attain each annear sediment tension and enduce wave energy in one of the freedwing bays.	÷
White Ditch Resurrection and Outfall Management (Deauthorized)	BS-0012	OM, FD	NRCS	PLAQUEMINES	189	NIA	Deauthorized	\$1,595,677	The goal of this project was to promote utilization of reshwater, sediments, and nutrients from Mississippi River by renewing operation of existing siphon and adding another. The project was deauthorized by the CWPPRA Task Force in 2013.	-
Bayou Lamoque Freshwater Diversion (Transferred)	BS-0013	FD	EPA	PLAQUEMINES	620	NIA	Transferred	809'8\$	The goal of this project was to create approximately 620 acres of new marsh, increase the percent cover of aquatic vegetation, increase the area of allow open water habitat, and decrease mean salintly in the project area. This CWP PPA project was transferred to the CIAP Promann.	-
Bohemia Mississippi River Reintroduction Project (Deauthorized)	BS-0015	FD	EPA	PLAQUEMINES	640	N/A	Deauthorized	\$556,703	The goal of the project was to reintroduce Mississipp River water into adjacent wetlands through an uncontrolled diversion with a capacity of project was deauthorized by the CWPPRA Task Frone in 2013.	-
South Lake Lery Shoreline and Marsh Restoration	d BS-0016	VP, MC	USFWS	PLAQUEMINES	652	NIA	Pending	\$33,716,987	This project involves dredging sediment to create 396 acres of marsh and restone approximately 32,000 feet of the southern Lake Lery shoreline.	-
Bertrandville Siphon (Deauthorized)	BS-0018	FD	EPA	PLAQUEMINES	1613	NVA	Deauthorized	\$22,578,208	The goal of the project was to create and sustain marsh through a MS River reintroduction (2,000 cfs maximum siphon) into the open water near Bertrandville. The project was deauthorized by the CWPPRA Task Force in 2013.	1
Terracing and Marsh Creation South of Big Mar	BS-0024	MC, TE	USFWS	PLAQUEMINES	383	NJA	Pending	\$22,774,368	This project involves the construction of approximately 65,000 linear feet of teraces (37 acres) with in-atu material to reduce fetch and throtody and explure suspended seathernt. Seatherns will be thy dradically dredged from Lake Lery and pumped van pipeline to create and restore accommented 334 acres of marsh in the profest area.	2
Cameron-Creole Maintenance	cs-0004-A	£	NRCS	CAMERON	2602	NIA	1997, 2011	\$4,644,371	The project area falls within the Cameron-Creole watershed management area, which has been adversely impacted by sativater intrusion and loss of sediments to be to channet about and water western of the Casaleut Mew. The project provides maintenance for the existing 19 miles of bees and five maint studies which make up the Cameron-Creole Watershed Project.	4
Brown Lake Hydrologic Restoration (Deauthorized)	CS-0009	MM	NRCS	CALCASIEU, CAMERON	916	NIA	Deauthorized	\$1,097,828	The project investigated the restoration of the natural hydrology of the Brown Lake area. The project was deauthorized by the CWPPRA Task Force.	4
Sweet Lake/Willow Lake Hydrologic Restoration	CS-0011-B	SP	NRCS	CAMERON	247	NVA	2002	\$3,929,152	The project objectives are to re-establish the shoreline (find/obogic boundary) between Sweet Lake and the Gulf intercoasally whatevery (GWWY), to reduce lake building and total exchange, and to half accordant dispersability and total exchange, and to half accordant dispersability to reduce lake building and total exchange, and to half and ordinary and northwestern shoreline of Sweet Lees. This project includes constitution of rock entrainments on the GWWY to close off the lakes, regelation plantings to reduce encoding, and construction of earthen terraces combined with vegetation plantings in open water areas to promote regelation.	4
Cameron Creole Plugs	CS-0017	H	USFWS	CAMERON	985	NIA	1997	\$418,539	The project goal is to restore historic wafer circulation patterns within the Cameron-Creole Watershed. This objective will be accomplished by Slowing has applicationered for sitem watershed from Cakraseu Lake. The project consisted of the installation of two sheetine bulbs in the lesselone burnow, can all.	4

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CTNA Tingian	alle	Number	Type	Sponsor	IS ID	Benefited	Levee	Completion	nafinna pini	ri ujet. Desa ipiuon	
CWPPRA	Sabine National Wildlife Refuge Erosion Protection	CS-0018	SP	USFWS	CAMERON	5542	N/A	1995	\$1,602,656	The goal of his project is to protect 13,000 acres of feeth mareh from deteroration associated with the anticpated fallure of the existing west lees. The original designed to include 1,000 feet of leves. The original designed for include 1,000 feet of leves reconstruction and 5.5 miles of rock arms of rock arms. ** ** ** ** ** ** ** ** ** ** ** ** **	4
CWPPRA	West Hackberry Vegetative Planting Demonstration	CS-0019	٧P	NRCS	CAMERON	N/A	NIA	1994	\$256,250	The goal of this demonstration project is to reduce marsh erosion from interior open water wave energy using vegetation plantings consisting of California bullush (Schoenoplectus californius). In addition, wave-silling hay bae femes were utilized to protect the exercision plantings.	4
CWPPRA	East Mud Lake Marsh Management	CS-0020	MM	NRCS	CAMERON	1520	NVA	1996	\$6,036,741	The project involves the creation of a hydrologic regime conducte to restoration, protection, and enhancement of the M ud Lake area susing various types of water ording structures and vegetable perfairings. Structures components include culvents with flag galles, two available creativers is three earthern busines, overflow bank and repair of easting lives.	4
CWPPRA	Highway 384 Hydrologic Restoration	CS-0021	MM	NRCS	CAMERON	099	NIA	2000	\$1,586,228	The project purpose is to restore the natural hydrology of the project area and eliminate undesirably high salinities and severe water fluctuations, tremendously reduce the potential for future marsh losses.	4
CWPPRA	Clear Marais Bank Protection	CS-0022	SP	USACE	CALCASIEU	1067	N/A	1997	\$3,696,088	The project is oct and north rin to Gulf infracoastal Waterway (1914/V) approximately 10 mise notwees of Headersh in Cast select. Parish, Louisiana. The goal of this project is to detend the rock armored shoreline stabilization by one mite adjacent to the GWWY to prevent continued erosion of the GWWW levee and to prevent the encroachment of the GWW into the marshes north of the project	4
CWPPRA	Replace Sabine Refuge Water Control Structures at Headquarters Canal, West Cove Canal, and Hog Island Gully	CS-0023	MM	USFWS	CAMERON	953	N/A	2001	\$5,709,299	ness. This project involved the replacement of existing structures at Sabine National Wildlife Refuge with structures that have substantially greater discharge potential and greater management flexibility.	ঘ
CWPPRA	Perry Ridge Shore Protection	CS-0024	g.	NRCS	CALCASIEU	1203	NVA	1999	\$2,289,090	The project reduces Idaal so our, wave action from boads, and other excessive energy impacts on interior marshes and the possibility of salwater intrusion by placing rep-rap along low areas on the northern spoil bank of the GWWW from Perry Rigge to Vinton Drainage Canada.	4
CWPPRA	Plowed Terraces Demonstration	CS-0025	NS FNS	NRCS	CAMERON	N/A	NA	2000	\$325,641	This objective of this demonstration project is to develop and demonstrate a non-traditional procedure for constructing earthen terraces in shallow power water areas. Think-bigh earthen terraces served as wave-stilling, sedfirent-trapping structures and provided a medium base for the establishment of emergent-vegation.	4
CWPPRA	Compost Demonstration (Deauthorized)	CS-0026	MC	EPA	CAMERON	NA	N/A	Deauthorized	\$255,390	This project was authorized to evaluate the effectiveness of using tree trimmings as compostable material, using compost amended markets and external readilm for emergent vegation, and determining settlement rase of the compost amended materials and tree trimmings. The project was officially desultorized by the CVM PPRAT ask force in January 2002.	4
CWPPRA	Black Bayou Hydrologic Restoration	CS-0027	HR	NMFS	CALCASIEU, CAMERON	3594	N/A.	2003	\$6,170,284	The project goals are to reduce wetland loss resulting from hydrobapic changes including reduced freshwater inflow, increased respirate and dutation for ideal fluctuations, increased stainties, inplier water leters, and excesses weater exchange. This project to blood the constitution of soul banks, wells guigs, and cuberts designed to allow freshwater from the out influcts costal waterway (OWWW) into the wetlands and to create a hydrologic head that increases freshwater retention time and reduces saftwater intrusion.	4
CWPPRA	Sabine Refuge Marsh Creation, Cycles 4-5	CS-0028-4-5	MC	USACE	CAMERON	460	NIA	2015	\$11,838,649	The Sabine Refuge Marsh Creation Oycles 4-5 Project consists of the placement of dredged material from routine maintenance of the Cakasieu River Ship Channelvia temporary pipeline into a marsh creation site within the Sabine National Wildire Refuge.	4
CWPPRA	Sabine Refuge Marsh Creation, Cycles 1-3	CS-0028-1	MC	USACE	CAMERON	662	N/A	2002, 2010	\$24,627,399	The Sabine Refuge Marsh Creation Oycles 1-3 Project consists of the placement of dredged materiaffrom routine maintenance of the Cakasieu River Ship Channelvia temporary pipeline into a marsh creation site within the Sabine National Wildfre Refuge.	4
CWPPRA	Black Bayou Culverts Hydrologic Restoration	CS-0029	또	NRCS	CALCASIEU	540	NIA	2007	\$16,899,059	This project involved the construction of 10 box culverts (10 ftx 10 ft) with flap gates in the embankment of Highway 384 in Cameron Parish.	4
CWPPRA	GIWW - Perry Ridge West Bank Stabilization	CS-0030	SP	NRCS	CALCASIEU	1132	NVA	2001	\$2,256,216	The project consists of installing rock along the bank of the GIWWV to prevent further erosion.	4
CWPPRA	Holly Beach Sand Management	CS-0031	g.	NRCS	CAMERON	330	NA	2003	\$14,130,233	The purpose of the protest is to protect existing costs whethous the reactions and extractionally of the remaining the enterthean of the costs whether the remaining the enterthean of sand fencing, vegetation planting, the enterthean of sand fencing, vegetation planting, and montaining of the shoreher ersponse. This project was originally authorized on the 9th PPL as the complex project thorty repetation planting or the shoreher ersponse. This project was originally authorized on the 9th PPL as the complex project Holy Beach Project. CS-01.	4 4
CWPPRA	East Sabine Lake Hydrologic Restoration CU1	CS-0032-CU1	TE, HR	USFWS	CAMERON	281	N/A	2009	\$4,944,870	The objectives of this project are to protect and restone area marsh, and restone the historical hydrologic regime to the Sabine National Wildlife Reluga. This was to be accomplished using shoreline protection, terraces, vegetation plantings, and water control structures to reduce tidal scour, shoreline enosion, tubildey, and salitities. However, design of the water control structures has been discontinued and the remaining construction funds was used to build additional terraces.	4
CWPPRA	Cameron-Creole Freshwater Introduction	CS-0049	VP, FD	NRCS	CAMERON	473	NIA	Pending	\$14,037,045	The purpose of the project is to restore the function, value and sustainability to approximately 22,247 acres of marsh and open water by improving hydrologic conditions via frestwater input and increasing organic productivity.	4
CWPPRA	Kelso Bayou Marsh Creation and Hydrologic Restoration	CS-0053	MC,SP	NRCS	CAMERON	274	N/A	Transferred	\$17,882,765	The goal of this project is to restore and protect approximately 319 acres of critically important marsh and the numerous functions provided by those acres. The proposed project will restore a protion of the historic meandering channel of Kelso Bayou and provide direct protection to Louisians State Highway 27, the region's open worth worthward fourits are evacuation route. The project has been transferred to the Chenter Plan Coastar Protection and Restoration Authority.	4
CWPPRA	Cameron-Creole Watershed Grand Bayou Marsh Creation	CS-0054	MC	USFWS	CAMERON	534	NIA	Pending	\$22,918,987	Project goals include creating 609 acres of bracksts marsh and nourishing 7 acres of trackets marsh with delicated diedeped material from Cabasio Lake to bracef fish and whillife resources in the Cameron Praire National Wildlife Refuge and adjacent brackish marshee of the Catasiou Lake estuar.	ħ
CWPPRA	Oyster Bayou Marsh Creation and Terracing	CS-0059	MC SNT	NMFS	CAMERON	489	N/A	Pending	\$31,031,354	The project consists of creating/nourishing marsh and associated edge habital and creating terraces in order to reduce wave/wake errosion.	4
CWPPRA	Cameron Meadows Marsh Creation and Terracing	9900-SO	MC, TE	NMFS	CAMERON	401	N/A	Pending	\$28,935,820	This project involves the construction of 334 arres of marsh and the reestablishment of Old North Bayou via dredged material from the cold of Michigan. The project also Involves the construction of 35,000 linear feet of terraces (18 acres) to reduce wind generated wave fieth.	4
CWPPRA	No Name Bayou Marsh Creation and Nourishment	CS-0078	MC	NMFS	CAMERON	497	NVA	Pending	\$28,090,745	The project goal is to create and/or nourish approximately 533 acres of emergent saline marsh within the Cameron-Creacle watershed along the Calcasieu Lake i'm using sediment from upland disposal sites of the Calcasieu River.	4
CWPPRA	Oyster Lake Marsh Creation and Nourishment	CS-0079	MC	NOAA	CALCASIEU	661	NIA	Pending	\$37,542,910	The primary goals of the project are to create and nountist approximately 561 acres of saline marsh. Sediment would be mined from the offstone disposal area used for CS-58 and placed in the project area to create approximately 476 acres and nourish approximately 185 acres and nourish approximately 185 acres of saline marsh. Hat of the createl acres will be planted with smooth condrass-vegetation.	Ą
CWPPRA	Nutria Harvest for Wetland Restoration Demonstration	LA-0003-A	ОТ	USFWS	COASTWIDE	N/A	NVA	2003	\$806,220	This project enables the Louisiana Department of Wildiffe and Fisheries to establish an economic incentive program to trap and control multina which are contributing to coast welland loss, by promoting the consumption of nutria mreat.	COASTWIDE
	Coastwide Nutria Control Program	LA-0003-B	MM	NRCS	COASTWIDE	14963	NiA	N/A	\$68,738,156	is to harvest approximately 400,000 nutria tall d areas to reduce by 25,000 to 49,000 acres.	COASTWIDE
CWPPRA	Floating Marsh Creation Demonstration	LA-0005	TO	NRCS	TERREBONNE	N/A	NIA	2006	\$1,080,891	I he purpose of this demonstration project was to develop and test unique and previously untested technologies for creating floating marsh made of buoyant vegetated mats or artificial islands.	38
CWPPRA	Shoreline Protection Foundation Improvements Demonstration	LA-0006	G.	USACE	VERMILION	0	NA	2006	\$1,055,000	The purpose of the project is to irrestigate the potential to improve the foundation of rock dikes. The project was paired with the South White Lake Shoreine Protection (ME-22) project.	4
CWPPRA	Bioengineered Oyster Reef Demonstration	LA-0008	SP	NMFS	CAMERON	4.5	NVA	2012	\$2,316,692	This project is intended to evaluate the Oysterbreak structure to prevent beach erosion and increase habitat diversity associated with natural cyster reefs.	4
CWPPRA	Sediment Containment System for Marsh Creation Demonstration	LA-0009	M	NRCS	ST CHARLES	N/A	N/A	2013	\$2,323,073	This demonstration project utilizes an uncoventional sediment containment system for marsh creation.	3A
CWPPRA	Non-rock Alternatives to Shoreline Protection Demo	LA-0016	SP	NRCS	IBERIA, JEFFERSON, LAFOURCHE	N/A	N/A	2015	\$6,108,699	Project goals are to demonstrate different atematives to rock shoreline protection methods by testing several different products along highly erosive storelines in areas that are not conductive to construction with rock.	2, 3B
CWPPRA	Coastwide Planting	LA-0039	VP	NRCS	COASTWIDE	779	NIA	NA	\$12,689,725	The goads of the project are to facilitate a consistent and responsive planting effort in coastal Louisians that is flexible enough to cudinely plant on a large scale and be able to rapidly especint to "hot spots" following stimms or other larinaging events.	COASTWIDE
CWPPRA	Shoreline Protection, Preservation, and Restoration (SPPR) Panel	LA-0280	SP	NOAA	COASTWIDE	NIA	NIA	NIA	\$2,669,829	The proposed demonstration project would stabilities existing shoreline features and attenuate shoreline retreat and potentially enhance interior mensions patrom behind the structure. The goal of this project is to provide a cost effective construction attenuates to ring or shoreline projective.	COASTWIDE

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CPKA Plogram	Name	Number	Type	Sponsor	Parisin	Benefited	Levee	Completion	otal Budget	Project Description	Planning Unit
CWPPRA	Salvinia Weevil Propagation Facility	LA-0284	10	USFWS	COASTWIDE	26	N/A	NIA	\$5,052,748	The goal of this project is to operate a weewlipropagation facility in Jeanerette, like that previously operated by LSU in Houma, to make weevits available free of charge to landowners in coastal Louisiana	COASTWIDE
CWPPRA	Freshwater Bayou Wetland Protection	ME-0004	SP	NRCS	VERMILION	14381	N/A	1998	\$9,871,230	The project features include the installation of 10,000 linear feet of rock breakwater (rip-rap) along the west shoreline of Freshwater Bayou Canal, where needed, to protect this shoreline from further encision, and the installation of gated water control structures on the Acadiana Marina Canal to reduce ponding in the area known as the Freshwater Bayou Wetlands. The project has been extended for another, 20 years.	4
CWPPRA	Dewit-Rollover Vegetative Plantings Demonstration (Deauthorized)	ME-0008	۸۸	NRCS	VERMILLION	102	NVA	1994; Deauthorized	\$92,147	This demonstration project's purpose was to investigate the ability of vegetation plantings of smooth condgrass (Spartina alternfora) to colonie a newly accreted mudfat, thereby setablishing a vegetation buffer between the Out of Mexico and coastal wellands. This project was officially deauthorized by the OWPPRA Task Force in February 1996 because no plants remained.	4
CWPPRA	Cameron Prairie National Wildlife Refuge Shoreline Protection	ME-0009	SP	USFWS	CAMERON	640	NIA	1994	\$1,227,123	This project protects the emergent wetlands of the Cameron Pranie National Wildlife Refuge adjacent to the GWWy, enhances the emergent washinds protecting approximately 2.5 miles of rock dike parallel to the existing spoil bank, and terminates the encroachment of the GWWW into the refuge.	4
CWPPRA	Humble Canal Hydrologic Restoration	ME-0011	H	NRCS	CAMERON	378	N/A	2003	\$1,530,812	The project consists of replacing the existing Humble Canal structure to restore water management capabilities to the area.	4
CWPPRA	Southwest Shore White Lake Demonstration (Deauthorized)	ME-0012	S.	NRCS	IBERIA	NA	NVA	1996; Deauthorized	\$41,777	The objective of this demonstration project was to stabilize one mile of the White Lake shoreline and prevent breaching into Deep Lake. The project was initiated to determine it California bulicati (Schoenoplectus californicus) is effective at damping high energy wave action. The project was officially deauthorized by the CWFPRA Task Force in October of 1998 and is no longer monitored.	4
CWPPRA	Freshwater Bayou Bank Stabilization	ME-0013	SP	NRCS	VERMILION	511	NIA	1998	\$8,913,357	The goal of this project is to stop eroston along the bank of Freshwater Bayou Caral and to protect the interior wetlands from sathwater intuition, increased that leavage and wake-housed eroston. This was achieved by constructing a rock dike along critical areas of the asstern and western banks of the canal. The project was extended for another 20 years.	4
CWPPRA	Pecan Island Terracing	ME-0014	12	NMFS	VERMILION	437	NVA	2003	\$2,390,984	The goal of this project is to convert areas of open water back to vegetated marsh. Project features included the construction of a safther terrase so to beduce water a action. I brace awer construction in a staggered gap formation and planted with smooth contigrass. Goadma alternificial and caffornia buther Scheenonectus caffornicus).	4
CWPPRA	Freshwater Introduction South of Highway 82	ME-0016	H	USFWS	IBERIA	296	NVA	2006	\$6,342,505	The purpose of the project was to move freshwater from White Lake across LA Hw 82 to target marshes and marsh restoration through earthen terraces.	4
CWPPRA	Little Pecan Bayou Hydrologic Restoration (Deauthorized)	ME-0017	HR	NRCS	CAMERON	144	NIA	Deauthorized	\$1,303,713	The purpose of the project was to introduce fresh water into brackish marsh habitat south of La. Highway 82 through use of water control structures and convey arce channels. The project was subsequently deauthorzed by the CWPPRA Task Force.	4
CWPPRA	Rockefeller Refuge Gulf Shoreline Stabilization	ME-0018	SP	NMFS	CAMERON	863	N/A	Pending	\$26,776,463	The purpose of the project is to construct a continuous near shore breakwater along the Gulf of Mexico shoreline, approximately 50,891 feet from Beach Prong to Joseph Harbor.	4
CWPPRA	Grand-White Lakes Landbridge Protection	ME-0019	SP	USFWS	CAMERON	213	NVA	2004	\$3,536,830	The purpose of the project was to prevent the coalesence of Grand and White Lakes through the installation of 11,000 feet of hard shoreline stabilization and construction of terraces.	4
CWPPRA	South Grand Chenier Hydrologic Restoration	ME-0020	HR,MC	USFWS	VERMILION	440	NIA	Pending	\$23,873,346	The objective of this project is a reduction in salinky in target marshes via fresh water introduction from Upper Mud Lake via the Dr. Miller Canal and culvers under Hwy 82. Restoration of 402 acres of brackfish mash from shallow open water and noutrishment of 51 acres of the area of the mash (pital 453 acres) in two cells (176 and 277 acres) via 1.55 M cubic yards of dredged material from a Gulf of Mexico porrow site.	4
CWPPRA	Grand Lake Shoreline Protection, Tebo Point	ME-0021	SP	NRCS	CAMERON	495	NIA	Pending	\$11,305,616	This project invokes the construction of a rock dike to protect the south shoreline of Grand Lake from Caffish Lake to Teba P ont and perform bing-term O&M on this dike as well as a separate portion from Superior Canal to Caffish Lake (constructed using CAP 2007 Unids).	4
CWPPRA	South White Lake Shoreline Protection	ME-0022	SP	USACE	VERMILION	844	N/A	2006	\$19,673,961	This project involved the construction of a rock dike along the south shoreline of White Lake to reduce erosion and maintain shoreline integrity.	4
CWPPRA	South Pecan Island Freshwater Introduction (Deauthorized)	ME-0023	FD	NMFS	CAMERON	86	NA	Deauthorized	\$4,438,693	The purpose of the project was to introduce freshwater from the lakes subbasin north, under Hwy, 82 and into the lakes subbasin south of Hwy. 82. The project was officially deauthorized by the CWPPRA Task Force in January of 2011.	4
CWPPRA	Southwest Louislana Gulf Shoreline Nourishment and Protection	ME-0024	TO	USACE	IBERIA	888	NIA	Pending/On Hold	\$17,144,234	The goal of the project is to nounish 47,800 linear feet of guif shoreline with sediment between Dewitt Canal and Big Constance Lake, and restal approximately 384 feet seaward. The project is on hould until the Phase ICAS transities in Sinaized with the USACE.	4
CWPPRA	Freshwater Bayou Marsh Creation	ME-0031	MC	NRCS	VERMILION	401	N/A	Pending	\$26,756,528	The purpose of the project is to create and/or nourish about 400 acres of marsh near Freshwater Bayou north of intersection with Humble Canal.	4
CWPPRA	South Grand Chenier Marsh Creation - Baker Tract	ME-0032	MC	NRCS	CAMERON	393	NIA	Pending	\$26,691,833	The purpose of this project is to create new welfand habital, restore degraded marsh, and reduce wave erosion. Material dredged from the Cut of order to reteate during any expension that is defined to weak with the degraded and approximately 11,356 frear feet of tilds creak will be constructed by tracking marsh buggies on the marsh patform for estuarine fisheries access. Smooth cordgrass plugs will be planted on 20-foot centers throughout the area (datal 49,268 plants).	n 4
CWPPRA	West Bay Sediment Diversion	MR-0003	SD	USACE	PLAQUEMINES	9831	NVA	2003	\$50,863,503	The project consists of a connegarance channel for large-scaled unconfibiled thereiston of freshwelter and sediments from the Missessippi Five. The diversion channel was designed to be constituted in two phases. (1) inflat construction of an intermir channel to accommodate a dischagate of 70,000 cube foet per second (cits) at the 50% duration stages in the River and marsh bevelopment areas, and (2) Modification of the intermir decision channel design to accommodate full-scale deversion of 50,000 cts at the 50% duration stage on the River after a period of inferense emotivating of theresion operations.	s, 2
CWPPRA	Channel Armor Gap Crevasse	MR-0006	SD	USACE	PLAQUEMINES	2097	N/A	1997	\$888,985	The project consists of deepening the invert of the existing 150 foot wide gap in the Mississippi River channel bank armor. The existing inverted to -4.0 feet following. In addition, an existing sarther channel leading from the armored gap to the open water area beyond the bank were enlarged. Approximately 15.00 to ubb's prost of material were excerated from the outfall channel and cast addisertly the channel in a manner contriver be to marsh noutsthrent.	1
CWPPRA	Pass-a-Loutre Crevasse (Deauthorized)	MR-0007	OS .	USACE	PLAQUEMINES	1043	NIA	Deauthorized	\$119,835	The objective of this project wasts to reasts and restore marsh in the Missispip Pher Delts. This was b be accomplished through construction of a creases on the left descending bank of the Missispip Pher between Pass-s-Loute and Raphtael Pass. The project was officially deauthorized by the CWPEPEAT ask Force in July of 1996 due to high costs attributed to relocating underground utilities in the area.	- T
CWPPRA	Beneficial Use of Hopper Dredged Material Demonstration (Deauthorized)	MR-0008	DM	USACE	PLAQUEMINES	NIA	NIA	Deauthorized	\$58,309	The goal of this project was to utilize dredged material from a hopper dredge to create emergent vegetated marsh in an area that is ournafily a station open-water point. Due to design problems, the project was officially deathorized by the CWFPRA Task Force in November of 2000.	2
CWPPRA	Detta Wide Crevasses	MR-0009	OS.	NMFS	PLAQUEMINES	2386	NIA	1999	\$4,728,318	The objective of this project is to promode the formation of emergent freshwater and intermediate marsh in shallow, open water areas of the Pass-a-Loutre Wildire Management Area and the Defa National Wildire Refuge by either cleaning susking spays or creating new order.	of 1
CWPPRA	Dustpan Maintenance Dredging Operations for Marsh Creation in the Mississippi River Delta Demonstration	MR-0010	DM	USACE	PLAQUEMINES	N/A	N/A	2002	\$1,909,020	This project demonstrated the beneficial uses of dredged material from routine maintenance of the Mississippi Rwer Navigation Channel by using a dustpan hydratilic diedge to create and restore adjacent marsh. Approximately 40 acres of detenorated marsh that had commerced to shallow open water were restored with approximately 222,000 cubic yards of dredged material.	2
CWPPRA	Periodic Introduction of Sediment and Nutrients at Selected Diversion Sites Demonstration (Deauthorzed)	MR-0011	FD	USACE	ST BERNARD	NIA	N/A	Deauthorized	\$83,556	This demonstration project was intended to show the effectiveness of using a hydraulic pipeline dredge to provide increased sediment finough a diversion stucture or sighton. Moriforing of the project will determine not only the characteristics of the sediment input concentrations, but also the subsequent effects in the outfall area. The project was subsequently deauthorized by the CWPPRA Task Force.	1
CWPPRA	Mississippi River Sediment Trap (Deauthorized)	MR-0012	M	USACE	PLAQUEMINES	1190	N/A	Deauthorized	\$354,790	This project was reauthorized on the 12th PPL to create emergent wetlands through the beneficial use of material dredged from a seofment than miles 5 and 1 above head of Passes in the Mississippi River. The proposed sediment trap will consist of an area dereiged out of the member that will rione sediment deposition. The project was officially deauthorized by the CWPPRA Task Force in 2009 due to the high cost to implement the project.	1,2
CWPPRA	Benneys Bay Diversion (Deauthorized)	MR-0013	SD	USACE	PLAQUEMINES	4580	NVA	Deauthorized	\$976,580	The objective of the project vac to create vegated wethands in a daulow open water areas in Benneys Bay. The project would dwent seafment in an effort to create, noutifs, and maintain approximately 16,982 acres of fresh to intermediate marsh over the 20-year project file. The project was deauthorized by the CWPFRA Task Force in 2013.	1

Nome	Ctato Droi			Darleh	0 cmc	Adilos of	Construction	T-45 Dudwet	Distance   Desirable Description	Diamine IInit
	Number	r Type	Sponsor	7.01	Benefited	Levee	Completion	oral bunger	riojek Deskipuni	5
Spanish Pass Diversion (Deauthorized)	MR-0014	4 SD	USACE	PLAQUEMINES	433	NVA	Deauthorized	\$310,151	The goal of this project was to create emergent marsh by diverting Mississippi River water and sedment from Grand Pass into open water receiving areas. The project was deauthorized by the CWPPRA Task Force in 2013.	2
Venice Ponds Marsh Creation and Crevasses (Inactive)	tion MR-0015	MC	EPA	PLAQUEMINES	511	N/A	Inactive	\$23,442,176	The goals of the project are to create, maintain, nourish, and replenish earsing deteriorating wetlands through dedic ated dredging, hydrologic readioding, crevasse construction, and crevasse enhancement. The project was designated as hactive by the CWPPRA Task Force in 2013.	2
Fritchie Marsh Restoration	PO-0006	8 H	NRCS	STTAMMANY	1040	N/A	2001	\$2,201,674	The most received to achieve remediation of the causes of wetland loss in the area and to improve habitat for whitlife and its britisheries by increasing the flow of fresh water into the marsh and managing the outfall.	1
Violet Freshwater Distribution (Deauthorized)	on PO-0009-A	H.HR	NRCS	ST BERNARD	247	N/A	Deauthorized	\$128,626		₩.
Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1	PO-0016	e H	USFWS	ORLEANS	3800	N/A	1996	\$1,680,193	The Lease Portchart and Hums are Protection levee isolates units 3 and 4 of the Bayou Sauvage Wildlife Refuge from the surrounding masts congress and establishes a large freshwater impoundment. This project established a means for removing the excess water during the spring and surriner.	-
Bayou LaBranche Wetland Creation	PO-0017	7 MC	USACE	STCHARLES	487	N/A	1994	\$3,934,000	The project involved dredging sediments from Lake Pontcharitain to create vegetated wetlands in an area roughly bounded by H10, Lake Pontcharitain, Bayou Labranche.	1
Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 2	PO-0018	8 HH	USFWS	ORLEANS	1280	N/A	1997	\$1,692,552	The construction of U.S. Highway 90, canals, railroad lines, and Lake Ponct hartrain hunt are protection levess has impounded the marsh in the longiest area. Protection there consists from 56-first	-
sissippi River Gulf Outlet 160) Disposal Area Mar. tection	it irsh PO-0019	M M	USACE	ST BERNARD	755	N/A	1999	\$318,445	The objective of this project is to preserve vegetated wetlands by repaining the lateral and rear dikes of the Mississipp iRiver Oulf Outlet MRNO Objects are as Repairs for a 25,000 inneathood tike, in compilitation with installation of metal box werts with a single 40-inch pine, were used to control and divert water flow to prevent the perched marshes from draining.	1
Red M ud Demonstration (Deauthorized)	PO-0020	W W	EPA	ST JOHN THE BAPTIST	NIA	NA	Deauthorized	\$520,129	This project was authorized to determine whether red mud, produced as a by-product of removing alumina from baudie, could be tublized as marsh-reation material in combination with compost and marsh sediment. Construction of experimental units was initiated in 1997, however, due to unspeciated problems with fill material, liners, and contaminants in the water source, the project was officially deauthorized by the CWPPPA Task Force in Ausus 2001.	÷
Eden Isles East Marsh Restoration (Deauthorized)	PO-0021	# #	NMFS	CAMERON	1453	NA	Deauthorized	\$39,025	The project intended to restore 2,536 acres of drained fastlands by actively managing water levels to manimize marsh creation. There was a change is anotherwise to first project area curring the planing phase of this project. Consequently, the project was orthic laby deauthorized by the CWPPRA Task Force in January 1999.	-
Bayou Chevee Shoreline Protection	PO-0022	2 SP	USACE	ORLEANS	212	NVA	2001	\$2,589,403	The project consists of constructing a 5,000-foot earthen, erodible dike to contain dredged material from Lake Pontchartrain. The project created about 150 acres of marsh.	-
Hopedale Hydrologic Restoration	PO-0024	4 H	NMFS	ST BERNARD	106	N/A	2005	\$2,281,287	This project is designed to abate site specific wetland loss by replacing colapsed culverts installed in the 1950s near Yschoskey, Loudistan Septement of these situations wetland allow more rapid drainage of the area, improve fisheries access, reduce wetland loss rakes, and project approximately 3,086 arts of masts.	-
Bayou Bienvenue Pump Station Diversion and Terracing (Deauthorized)	acing PO-0025	5 MC	NMFS	TERREBONNE	442	N/A	Deauthorized	\$212,152	This project intended to combine the use of existing purry stations with the construction of a diversion channel, water control structures, and earther terresceptiented with smooth congrass (Spartma attending). This would fonce the flow off treshwater and nutrients through a detendrated march area to abde a tel-specific march loss. The project was officially deauthorized by the CMPPRA, Task Force in April 2002 because construction was determined to be too costly.	1
Opportunistic Use of the Bonnet Carre Spilway (Deauthorized)	PO-0026	6 FD	USACE	PLAQUEMINES	177	NIA	Deauthorized	\$83,932	This project intended to abate high salenty stress on the vegetated wetlands surrounding Lake Pontchartrain. This objective was to be accomplished frough the removal of prior from the Bonnet Care? Soliway surcular during high frow periors in the Misssessop Rher to allow no more than 4,000 cubic feet her second of water to how from the river into Lake Pontchartrain. This project was officially desuthorized by the CWPPRA Task Force in October of 2007 due to uncertainty of benefits and lack of landowner support.	V
Chandeleur Islands Marsh Restoration	PO-0027	7 VP	NMFS	ST BERNARD	88	N/A	2001	\$839,927	The objective of this project was to accelerate the recovery period of barrier Island areas overwashed by Hurrisane Georges in 1998 through vegitation partings. The overwash areas, which encountess 594 acre are bocated at 22 sites along the Chrandeleur Sound siste of the island chain and were planted with smooth conditionas Cistartina allermingal.	-
LaBranche Wetlands Terracing, Planting, and Shoreline Protection (Deauthorized)	PO-0028	8 VP	NMFS	ST CHARLES	489	N/A	Deauthorized	\$306,836	t intended to reduce protection, and veg	1
Lake Borgne Shoreline Protection	PO-0030	0 SP	EPA	ST BERNARD	229	N/A	2008	\$28,908,775	The goal of this project is to maintain the integrity of the narrow strip of marsh that separates Lake Borgne from the Mississippi River Gulf Outlet (MRGO). This land halps probect the communities of Shell Beach, Yschoskey, and Hopedale from direct exposure to lake wave energy and storm surges. The goal was accomplished through construction of a continuous nearshore rock breakwater.	<b>+</b>
Lake Borgne and MRGO Shoreline Protection (Deauthorized)	PO-0032	2 SP	USACE	ST BERNARD	93	N/A	Deauthorized	\$1,089,193	The objective of this project was to preserve the marsh between Lake Borgne and the Mississippi River Gulf Outlet (MROO) by constructing a rork (alk a song fine Lake Borgne shoreline and the northern bank of the MROO. The Lake Borgne sagment of this project was constructed by the USACE with funds from the 3th supplemental, and the remaining portion of the project was beautionized by the CMPPRAT Task from the 3th supplemental.	1
Goose Point/Point Platte Marsh Creation	larsh PO-0033	3 MC	USFWS	ST TAMMANY	436	N/A	2009	\$15,979,442	The goal of this project is to create about 437 acres of marsh and nourish about 114 acres of degraded marsh along the northem shoreline of Lake Pontchartrain.	-
Alligator Bend M arsh Restoration and Shoreline Protection	PO-0034	4 TE VP. SP	NRCS	ORLEANS	121	N/A	Pending	\$29,716,052	The goal of this project is to provide shoreline protection in Lake Borgne, starting at Aligator Point, using rock dikes and vegetable plantings.	1
LaBranche East Marsh Creation	PO-0075	5 MC	NRCS	STCHARLES	715	NVA	Pending	\$33,555,033	Project features consist of the creation of 729 acres of marsh and the nourishment of 202 acres of existing marsh using dedicated dredging from Lake Pontchartrain.	1
Bayou Bonfouca Marsh Creation	PO-0104	4 MC	USFWS	ST TAMMANY	424	NA	Pending	\$29,273,984	The primary goal of the project is to create 533 acres and nourish 42 acres of low salinity brackish marsh in open water areas adjacent to Bavou Bonfouca with sediment pumped from Lake Pontchatriain.	1
aBranche Central Marsh Sreation	PO-0133	3 MC	NRCS	ST CHARLES	731	NVA	Pending	\$43,409,208	Project features include the creation of 762 acres of marsh and the nourishment of 240 acres of existing marsh using dedicated dredging from Lake Pontchartrain.	-
hell Beach South Marsh reation	PO-0168	© ₩ 8	EPA	ST BERNARD	634	N/A	Pending	\$27,946,159	The project would create and/or nourish 634 acres (ac) of emergent brackish marsh to stabilize the landform seperating Lake Borgne from the MROO. 343 ac of new marsh would be created and 291 ac nourished using fill material from Lake Borgne.	-
New Orleans Landbridge Shoreline Stabilization and Marsh Creation	PO-0169	9 MC, BS	USFWS	ORLEANS	271	NA	Pending	\$17,778,172	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.	1
Fritchie Marsh Creation and Terracing	d PO-0173	3 MC	NOAA	STTAMMANY	398	N/A	Pending	\$27,020,763	The project goal is to create and/or mountsh approximately 340 acres of emergent brackish marsh and create 36,610 feet of earthen terraces (56 emergent acres) in the Fitchie Marsh area between the city of Sideli and the Rigolets using sediment from Lake Pontchatran.	F
Bayou La Loutre Ridge Restoration and Marsh Creation	PO-0178	8 MC	NRCS	ST BERNARD	167	N/A	NVA	\$31,012,138	The goal of the project is to create an approximate 31.7 acre ridge feature with material from bucket dredging Bayou La Loutre. Additionally dredged material from Lake Borgne will create 163 acres of marsh and nourish approx. 258 acres along Lena Lagoon	~
St. Catherine Island Marsh Creation and Shoreline Protection	PO-0179	9 MC	USFWS	ORLEANS	219	N/A	NVA	\$25,324,715	The primary goals of this project are to protect a portion of the Lake Pontchartrain shoreline and restorefordect interior marsh habitat with the placement of dresged material	2
Grand Bayou Hydrologic Restoration (Deauthorized)	TE-0010	H	USFWS	LAFOURCHE	199	N/A	Deauthorized	\$1,452,357	The objective of the project was to maintain emengent welfands in this area by providing supplemental freshwater, nutrients, and escentent from the Actualisativa River via the Out intacoasal Wasteway (plWW). Project features included a water control structure on Bayou Pointe au Chien just south of its junction what St. Louis Canat, the refer structure on Grand Bayou, and the pipeline structure on Grand Bayou, and the pipeline structure on Grand Bayou.	3A
Falgout Canal Planting Demonstration	TE-0017	7 VP	NRCS	TERREBONNE	NA	NVA	1996	\$206,522	For this demonstration project, smooth condgrass (Spartina alternifora) suited to the sainity and habitat type of the Falgout Canal area was planted along the canal and protected by six types of wave-stilling devices.	3A
Timbalier Island Planting Demonstration	TE-0018	8 VP	NRCS	TERREBONNE	NIA	NVA	1996	\$300,492	For this demonstration project, approximately 7,390 linear feet of sand fences were installed and vegetation suited to the sainity and habitat type of Timbalier Island was planted in several areas on the island to trap sand and buffer wind and wave energy.	3A

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	Name	Number	Type	Sponsor	E E	Benefited	Levee	Completion	i oral bunger	ri ujeci. Deskriptuori	B B B B B B B B B B B B B B B B B B B
CWPPRA	Lower Bayou LaCache Hydrologic Restoration (Deauthorized)	TE-0019	MM	NMFS	TERREBONNE	NIA	NIA	Deauthorized	\$99,625	The project would have reduced mash loss rates and improved first and wildlife habitat quality by restoring natural north-south water each angree must be successful to the access of problems with another less that of the control of the whough the numerous dredged carals in the area. Because of problems with landinghis and navigation, the project was officially deauthorized by the CVMPPAT, Task Force in 1996.	3A
CWPPRA	Isles Demieres Restoration East Island	TE-0020	HB	EPA	TERREBONNE	449	N/A	1999	\$8,762,416	The protect bletche is in castor the costal durines and wettings of the Estatus fisse Demines arrait island chan. Approximately 3 given it island cubic yasts of sand wave direpted from Lake Pete and used to build a retaining durine which was then involvaturially first to creat an elevated marsh platform. Sand fences and vegetation were also installed to stabilize the sand and minimize wind-driven manasond.	3A
CWPPRA	Point Au Fer Canal Plugs	TE-0022	VP. MC	N N N N	TERREBONNE	375	N/A	1997	\$5,544,367	This project is intended to reduce satiwater intrusion into the Point au Fer marshes without reducing frestwater back flooding from the Atchafalaya stee. Phase for this project, completed in 1997, involved the plugging of two major natural gasfol pipeline canals on the eastern that of the island. Under Phase II, a nock shoreline stabilization structure was constructed in 2000 along a thin strept of beach separation the Gulf of Mexico from the Modo Canal.	BB
CWPPRA	West Belle Pass Headland Restoration	TE-0023	SP	USACE	LAFOURCHE	474	N.A.	1998	\$6,826,754	The project reduces the encroachment of Timbaler Bay into the marshes on the west side of Bayou Lafourche with the use of bedicated drouged materials to reade 184 acres of marsh on the west side of Belle Pass. A water control structure was placed in the Eyans, Canal, and pulso on other canals.	3A
CWPPRA	Isles Dernieres Restoration Trinity Island	TE-0024	вн, мс	EPA	TERREBONNE	776	N/A	1999	\$10,774,974	The project objectives are to restore the Trinity Island (dunes and marsh) wetlands of the Islas Demieres chain, enhance the physical integrity of the Island, and protect the lower Terrebonne estuan.	3A
CWPPRA	East Timballer Island Sediment Restoration	TE-0025	НВ	NMFS	TERREBONNE	1913	N/A	2001	\$3,720,721	The objective of this project is to strengthen and thus increase the life expectancy of East Timbalier Island. The project called for the rinning of 2.7 million cubic yads of sediment and placement of the material in three embayments along the landward shoreline of East "Tribalier Island. The project also included aerial seeding of the dune platform, installation of sand fencing, and dune vegetation plantings.	3A
CWPPRA	Lake Chapeau Sediment Input and Hydrologic Restoration, Point Au Fer Island	TE-0026	MC	NMFS	TERREBONNE	609	N/A	1999	\$6,810,133	The objectives of this project are to restore the manates, west of Lake Chapeau, re-establish the hydrotopic separation of the Locust beyou and Allipator Bayou watersheds, and re-establish the natural chanage patients within the Lake Chapeau area. To accomplish this material dredged from Anthodiaday a Bay was used to restell mark), of field access cands were plugged, and spot banks were apapered. An earling and both of the control of the properties of the properties of a second and spread to a thickness of appropriate Area (10) cubit yards of marking were hydrautically dedicated from Alchafaay Bay and spread to a thickness of appropriate Chapear (10) area of the control of the contr	38
CWPPRA	Whiskey Island Restoration	TE-0027	BH, MC	EPA	TERREBONNE	657	N/A	2000	\$7,106,586	The project created and restored beaches and back island marstes on Whiskey island. The project created 523 acres of back island marst he for further than the repetation plantly with mornor broadsasse (Sparlma and externing and for further than the respectation plantly with mornor broadsasse (Sparlma and externing and the area for the contract of the project of th	3A
CWPPRA	Brady Canal Hydrologic Restoration	TE-0028	¥	NRCS	TERREBONNE	297	NIA	2000	\$7,593,752	The objective of the project isto maintain the fragile, highly-fragmented transitional marshes between the fresh and estuarine zones by enhancing freshwater, sediment, and nutrient delivery into the area.	98
CWPPRA	Raccoon Island Breakwaters Demonstration	TE-0029	Н	NRCS	TERREBONNE	NA	NA	1997	\$1,795,388	This projet, projets the newy relucismed beatries and welfarbs of Raty Durisand and projet toack darner and manifard maisties. With sk eggmented breakwaters.	3.4
CWPPRA	East Timbalier Island Sediment Restoration	TE-0030	H	NMFS	TERREBONNE	215	NVA	2000	\$7,600,150	The project goal is to strengthen and increase the life expectancy of East Timbaler island by placing dredged material along its anawkar storeline. Additional rock has been placed on the existing breakwater in front of the island, which will neep profect the created area from a control.	34
CWPPRA	Flotant Marsh Fencing Demonstration (Deauthorized)	TE-0031	SP	NRCS	TERREBONNE	N/A	N/A	Deauthorized	\$106,960	The purpose of this demonstration project was to determine the effectiveness of different fencing techniques used to conserve and restore floating massles. There was difficulty in locating an appropriate site for demonstration and in addressing engineering constraints. The restoration techniques that were originally suggested for this project were not feasible. The project was office lay deauthorized by the CXYPPRAT ask Force in 2001.	3A
CWPPRA	North Lake Boudreaux Basin Freshwater Introduction and Hydrologic Management	TE-0032-A	FD	USFWS	TERREBONNE	603	NVA	Pending	\$26,875,959	The project aims to introduce freshwater from the HNC through an enlarged Bayou Pelton channel across Bayou Grand Callou and through a gated channel.	3A
CWPPRA	Bayou Boeuf Pump Station (Deauthorized)	TE-0033	£	EPA	TERREBONNE	NA	N/A	Deauthorized	\$3,452	The purpose of this project was to link the wetlands protection/restoration objectives of the CWPPRA with flood protection and nanigation needs generally covered by WRDA. The project to imposents consisted of implementing a long-term water management stategy for the Vernet Basin, and evaluating a long-term were water delivery stategy from Atchadaya River to Terebonne wetlands. The protectives of finish deauthorized by the CWPPRA Task force in 1989.	3A
CWPPRA	Penchant Basin Natural Resources Plan, Increment 1	TE-0034	FD, HR, SP	NRCS	TERREBONNE	675	NIA	2011	\$17,628,814	The objective of the project is to divert frestwater 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.	38
CWPPRA	M arsh Creation East of the Atchafalaya River - Avoca Island (Deauthorized)	TE-0035	MC	USACE	STMARY	434	NIA	Deauthorized	698'99\$	The project consisted of the beneficial use of dredged material from the "Crew Boat Chule" and plas ing it in the Avora Island area Affinough the project would have benefied 434 acres at a cost of \$6,438,400, the cost of the project was estimated to be considerably higher than originally planned, making it economically unjustifiable. The project was officially deauthorized by the CWFPRA Task Force in 1998.	38
CWPPRA	Thin Mat Floating Marsh Enhancement Demonstration	TE-0036	MC	NRCS	TERREBONNE	NA	N/A	2000	\$538,101	The objective of this project is to induce the development of thick-mat, confinuousy floating marsh from a thin-mat floatin using various combinations of treatments including fertilization, herbivory reduction, and transplanting healthy, thick-mat marsh plugs into the thin-mat floatin. Project monitoring is intended to determine the effects of water movement and sediment availability on these marshes.	38
CWPPRA	New Cut Dune and Marsh Restoration	TE-0037	вн, мс	EPA	TERREBONNE	386	N/A	2008	\$12,869,325	The objective of this project was to close the breach between East and Trinity Islands that was originally created by Hurricane Carmen (1987) and subsequently enhaged by Hurricane Juan (1985) and Hurricane Andrew (1992). The project involved the creation of harries island dunes and marsh habitat and lengthering the structural integrity of the eastern Islae Demieres by restoring the littoral drift and and adding sectional into the near-store system.	3A
CWPPRA	South Lake Decade Freshwater Introduction	TE-0039	SP	NRCS	TERREBONNE	202	NIA	2011	\$5,223,806	This project involves the construction of a valer control structure in the southern bank of Lake DeCade. The structure in reasses the amount of Activatalesia? River water and sediment introduced in the marsless south of the lake. In addition, stroneline protection was importented adjacent to the proposed structure, and a were in Laberroused Bayou was removed.	3A
CWPPRA	Timbalier Island Dune and Marsh Restoration	TE-0040	BH, MC	EPA	TERREBONNE	663	N/A	2004	\$16,662,199	Timbaler Island is migrating rapidly to the west/northwest, therefore, the western end of Timbaler Island is undergoing lateral migration by spc. building processes aftite expense of tendons along the asstern end. The objective of this project is to restore the eastern end of Timbaler Island by the direct treation (cleach, durines, and mass).	3A
CWPPRA	M andalay Bank Protection Demonstration	TE-0041	SP	USFWS	TERREBONNE	NIA	NVA	2003	\$1,732,498	This demonstration project is intended to develop new techniques for protecting and restoring organic soils, which can be easily ended. It is the condended to breakfind upon sweet betted to determine the code differeness of demonstated asports excited. The project allows for several low-rots allowing for restoring table to be everal into the knostin.	3A, 3B
CWPPRA	Move Existing Atchafalaya Water to Central Terrebonne (Transferred)	TE-0042	H	USFWS	STMARY	N/A	NVA	Transferred	N/A	This project is intended to deduce marsh loss through the improved distribution of excess frestweler seasonally available in the Gulf Infractorably Maternay (MWW). The project MW benefit deletionaling marshes in central and/or eastern portions of the Terrebornne Beat. This project was transferred to the LCA program.	3A
CWPPRA	GIWW Bank Restoration of Critical Areas in Terrebonne	TE-0043	S.	NRCS	TERREBONNE	345	NA	2014	\$13,022,245	The project objective is to restore critical lengths of deteriorated channel banks and stabilize/armor selected critical lengths of deteriorated channel banks shawn banks and sometime stabilized markers. A portion of this project was constructed using CMP 2007 funds and the remainent of the protect was constructed under CMPPRA.	3A
CWPPRA	North Lake Mechant Landbridge Restoration	TE-0044	SP, MC	USFWS	TERREBONNE	604	N/A	2009	\$39,004,428	The project is intended to help maintain and restore the landbridge (Lake Mechant north shoreline and the Small Bayou La Pointe Kflagb, which provides a hydrologic barrier between brackish and low-sainty habitats. Project features include marsh creation, the planting of smooth cordigrass (Spartina alterniflora) on the shoreline, the construction of various plugs, and repairing a fixed-crest weir along Bayou Raccourt:	3A
CWPPRA	Terrebonne Bay Shore Protection Demonstration	TE-0045	SP	USFWS	TERREBONNE	0	N/A	2007	\$2,718,768	This project is intended to evaluate several different shoreline protection methods, including concrete mats, artificial oyster reefs and A-Jacks.	3A
CWPPRA	West Lake Boudreaux Shoreline Protection and Marsh Creation	n TE-0046	SP	USFWS	TERREBONNE	145	NIA	2008	\$17,893,813	The purpose of this project is to create and nourish about 200 acres of marsh along the western stroreine of Lake Boudreaux to protect the storeithe from erosion due to direct exposure to lake wave energy and to restore interior marsh lost to subsidence and salwager intuison.	3A
CWPPRA	Ship Shoal: Whiskey West Flank Restoration (Inactive)	TE-0047	H	EPA	TERREBONNE	900	N/A	Inactive	\$1,599,810	The objective of this project is to rebuild dunes and a marsh platform on the west flank of Whitskey Island through the deposition of dredged material transported from Shp Shoal. This project would provide a barrier to reduce wave and tidal energy, thereby protecting mainland shoreline from continued erosion. The project was designated as inactive by the CWPPPA. Task Force in 2013.	3A
CWPPRA	Raccoon Island Shoreline Protection and Marsh Creation	TE-0048	BH, MC	NRCS	TERREBONNE	16	N/A	2007, 2013	\$23,163,393	The purpose of the project is to protect the existing southern shoreline of the island by constructing 8 more rock breakwaters. Phase B utilized dredged sedment from the Gulf of Metic to create marsh on the land side of the island.	3A

CPRA Program Name		State Project	Project	Federal	Parish	Acres	Miles of	Construction	Total Budget	Project Description	Planning Unit
		Number	Type	Sponsor		Benefited	Levee	Completion			
Avo Lan	Avoca Island Diversion and Land Building (Deauthorized)	TE-0049	FD, MC	USACE	STMARY	NVA	NVA	Deauthorized	\$19,157,200	Project features include a small diversion from Bayou Shaffer into Avoca Lake paired with marsh creation through dedicated dredging. The project was subsequently deauthorized by the CWPPRA Task Force.	3A
CWPPRA Whi	Whiskey Island Back Barrier Marsh Creation	TE-0050	Н	EPA	TERREBONNE	270	N/A	2010	\$30,414,083	I of this project is to recreate a back barrier marsh platf of the previously restored and natural portions of the included construction of 316 acres of back barrier mart of sand dune on the quif side beach store.	0 3A
CWPPRA and	Madison Bay Marsh Creation and Terracing	TE-0051	MC, TE	NMFS	TERREBONNE	1019	NIA	Pending	\$39,821,438	The goals of this project are to create and nourish marsh and associated edge habitat and to promote conditions conductive to the growth of submerged aqualic vegetation. The proposed terraces will reduce the wave enoson of existing marshes along the fringes of Madison Bay. The project would benefit approximately 1,019 acres of fresh marsh and open water over the 20-year project iffe.	38
We	West Belle Pass Barrier Headland Restoration	TE-0052	НВ	NMFS	LAFOURCHE	389	NVA	2012	\$39,422,093	This project involves the reestablishment of the West Belle headiand by rebuilding a large portion of the beach, dune, and back barrier marsh that once existed. Approximately 9,300 feet of beach and dune were rebuilt.	3A
Ent	Enhancement of Barrier Island Vegetation Demo	TE-0053	٧٨	EPA	TERREBONNE	N/A	N/A	2011	\$919,264	The goal of this project is to test several technologies or products to enhance the establishment and growth of key barrier island and as aft mast yelastion. The project flocuses specifically on enhancing the establishment and growth of transplains of both dune vegetation plater pankum (Panicum amarum) and sea odas (Uniola paniculata) and march vegetation [smooth cordgrass (Spartina alternificat) and black ranagrove (Avventra germinans).	3A
Cer	Central Terrebonne Freshwater Enhancement	TE-0066	MC, HR	NRCS	TERREBONNE	456	N/A	Pending	\$17,890,120	The project will restablish historic hydrologic, and salinity conditions by reducing the artificial intuision of Gulf marine waters via the Grand Pass into the Central Terrebonne marshes while enhancing the influence of the Atchadalaya River waters into the area.	38
Los	Lost Lake Marsh Creation and Hydrologic Restoration	TE-0072	HR, MC	USFWS	TERREBONNE	749	NVA	Pending	\$35,873,728	Project goals include 1) restore an important feature of structural framework between Lake Pagie and Bayou Decade to prevent the coalescence of those two waster booles. 3) increase the alebeng tritten waster, sediments, and nutherits into marshes north and west of Lost Lake, 3) reduce fetch in open water areas vie construction of a brrace field.	3A, 3B
Terr	Terrebonne Bay Marsh Creation - Nourishment	TE-0083	O W	USFWS	TERREBONNE	353	N/A	Pending	\$28,664,401	Project goals are to create 365 acres of intended marsh in shallow open water and nourish 299 acres of fragmented marsh within the project are acutering between thereformed and to reduce project are acutering to between thereformed and to reduce encoun along 16,000 ft of the northern Terreborne Bay storietine.	3A
CWPPRA Nort	North Catfish Lake Marsh Creation	TE-0112	MC	NRCS	LAFOURCHE	265	N/A	Pending	\$30,325,016	Sediments will be hydraulically dredged from Caffish Lake and pumped via pipeline to create approximately 415 acres of marsh habitat and nourish an additional 251 acres of marsh habitat.	38
CWPPRA Islam	Island Road Marsh Creation & Nourishment	TE-0117	Σ Ω	NMFS	TERREBONNE	312	N/A	Pending	\$40,435,267	The proposed project's primary feature is 364 acres of created saline marsh and 19 acres of nourished saline marsh adjacent to island Road. Sediment will be higherlash pumped from a borrow source near Lake Felicity. Haif of the newly constructed marsh (182 acres) will be planted following construction to stabilize the platform and reduce time for full vegetation. The project would result in an approximate net increase of 312 acres over the 20-year project file.	98 98
CWPPRA Cres	West Fourchon Marsh Creation	TE-0134	MC	NMFS	LAFOURCHE	304	N/A	Pending	\$29,037,768	The goals of this project are to create and nourish 614 acres of marsh, by pumping habital. The project will also help protect the Markor. This project will create new mash habital and increase the brigenty of existing habital. The project will also help protect the habital and increase the briggenty of existing habital. The project the	of 3A
Bay Mar	Bayou DeCade Ridge and Marsh Creation	TE-0138	MC	NOAA	TERREBONNE	382	N/A	N/A	\$31,352,831	The project goals are to construct 11,728 linear feet of ridge along the northern bank of Bayou Decade and create and/or nourish approximately 501 acres of intermediate marsh along the northern bank of Bayou Decade	3A
CWPPRA Prot	Vermillon River Cutoff Bank Protection	TV-0003	SP	USACE	VERMILION	202	NIA	1996	\$2,047,479	The project design includes protecting the east side of the Vermition River Cutoff with rock to prevent further ensienry, hardening the points on existing land bridges on the west bank of the Cutoff with rock, and constructing sediment trapping fences on the Vermition 18ay side to help stabilize and protect the and though from wave action in the Bay.	38
CWPPRA Cots	Cote Blanche Hydrologic Restoration	TV-0004	Ħ	NRCS	STMARY	2223	N/A	1998	\$10,093,902	. Не везарува и объекта в повы объекта с повы объекта в повы объекта в повы объекта в повы объекта в повы объе На повы объекта в повы объект	ec 3B
Ban	Boston CanalV ermilion Bay Bank Protection	TV-0009	SP	NRCS	VERMILION	378	N/A	1995	\$1,043,748	The project involves stabilizing 15 miles of Vermillon Bay shoraline and preventing further regression of the Boston Canal banks. A strip of Vermillon Bay shoreline approximately, 25 feet wide by 15 miles bing was planted with single stems of Spartina alternation at 3 foot milesvals. There is no shore the strip of the project of the project of the strip of the project of the pro	р ЗВ
Fre. Stal to L	Freshwater Bayou Bank Stabilization - Belle Isle Canal to Lock (Inactive)	TV-0011-B	SP	USACE	VERMILION	N/A	N/A	Inactive	\$1,101,738	The project was intended to construct a rock dike to protect the east shoreline of Frestwater Bayou Canal. The project was subsequently designated as inactive by the CWPFRA Task Force.	38
Trag	Little Vermilion Bay Sediment Trapping	TV-0012	正	NMFS	VERMILION, IBERIA	441	N/A	1999	080'988\$	This project is designed to optimize the retention of sediment from the Atchafalaya River to create new marsh areas in Litle Vermition. Bay. Dredged material was placed to create emergent marsh, thereby protecting the existing shoreline from wind-induced wave erosion.	n. 3B
Oak	Oaks/Avery Canal Hydrologic Restoration, Increment 1	TV-0013-A	HR	NRCS	VERMILION, IBERIA	160	N/A	2002	\$2,925,216	The objective of the project is to improve hydrology, reduce tidal fluctuation to minimize marsh loss, and provide protection to critically eroding bankline and shoreline area.	38
Res	Marsh Island Hydrologic Restoration	TV-0014	Ħ	USACE	IBERIA	408	NVA	2001	\$5,143,323	The objective of the project is to stabilize the northeastern shoreline of Marsh Island, including the northem shoreline of Lake Sand, and to help to restore the historical hydrology. The project included construction of nine plugs in oil and gas canals at the northeast end of Marsh Island, protection of the northeast shoreline with rock, and isolation of Lake Sand from Vermiton Bay with a rock dike.	3B
Sed	Sediment Trapping at "The Jaws"	TV-0015	TE, VP	NMFS	STMARY	1999	N/A	2005	\$1,653,792	The objective of the project is to induce sedimentation to create emergent vegetated wetlands. This was achieved by constructing wetland terrares, thereby reducing wave fetch. Distributary channels were dredged to deliver water and sediment to the project area,	38
Che	Cheniere Au Tigre Sediment Trapping Demonstration	TV-0016	SNT	NRCS	VERMILION	N/A	NVA	2001	\$624,999	The objective of the project is to field test a conceptual device designed to trap sediment from the gulf tides, stabilize the on-going erosion on Cheniere au Tigre and build up portions of the coastline that have already eroded away.	38
Lak	Lake Portage Land Bridge	TV-0017	SP	NRCS	VERMILION	1496	NVA	2004	\$1,181,129	The objective of this project is to prevent the shoreline south of Lake Portage from breaching and creating another pass from Vermilion Bay to the Gulf. The project consists of backfilling a canal and armoring the beach with rock.	л 3B
Fou	Four Mile Canal Terracing and Sediment Trapping	TV-0018	TE	NMFS	IBERIA	52	N/A	2004	\$2,667,186	This project in fudes construction and planting of terraces with smooth condigrass (Spantina alternifiors), within Lifle White Lake and Lifle Verminion Bay, along Four Mie Canal, to abate wave-induced shoreline erosion and facilitate sedimentation in the open water rases between the traces.	38
We Con Red	W eeks Bay Marsh Creation and Shore Protection/ Commercial Canal Frestwater Redirection (Transferred)	TV-0019	e S	USACE	IBERIA	N/A	N/A	Transferred	\$30,227	The goal of the project is to create marsh to restore land-bridge separating Wieeks Bay and GWWW. In 2013, the CWPPRA Task Force transferred implementation of the project to parish stakeholders.	38
CWPPRA Bay	Bayou Sale Shoreline Protection (Deauthorized)	TV-0020	SP	NRCS	STMARY	131	NVA	Deauthorized	\$32,103,020	The goal of the project was to protect an enoding shoreline with approx 35,776 feet of rock dike shoreline protection. The project was deauthorized by the CWPPRA Task Force in 2014.	38
Eas Cre:	East Marsh Island Marsh Creation	TV-0021	O W	NRCS	IBERIA	1159	N/A	2010	\$21,215,936	The objective of the project was to reale approximately 302 acres of sustainable marsh. The majority of the project area has been converted to per water, principle and provided to 1 (2002). Through the use of approximately \$5 million in unused construction funds, over 500 acres of additional marsh was created throughed. The sediment for marsh creation was dredged from East Cote Blanche Bay and pumped a marrhum of 6 miles.	3B
Colt	Cole's Bayou Marsh Creation	TV-0063	MC	NMFS	VERMILION	398	NVA	Pending	\$27,881,223	The project consists of creatinghourishing marsh habital and increasing freshwater and sediment inflow into interior wetlands by improving project area hydrobogy.	38

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CTNA Flogram	Name	Number	Type	Sponsor	IGIID	Benefited	Levee	Completion	i otal buayet	rioject bescription	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
HSDRRS	Lake Pontchartrain & Vicinity, Lake Borgne Surge Barrier LPV-IHNC-02	PO-0055	윺	USACE	ST BERNARD, ORLEANS	N/A	2	2013	\$1,134,000,000	This project involves the construction of a Hurricane Surge Barner across the tip of Lake Borgne connecting the MROO levees south of Bayou Blenvenue with the GIWWI levees East of Michoud Canal with floodgates at Bayou Bernerue and GIWW.	-
HSDRRS	SELA	PO-0057	ОТ	USACE	JEFFERSON, ORLEANS	N/A	N/A	Pending	\$1,170,974,586	This project consists of drainage and pump station projects within Jefferson Parish and Orleans Parish, on both the east bank and west bank of the Mississippi River.	1,2
HSDRRS	Permanent Closure of Canals and Pumps	PO-0060	ᇁ	USACE	ORLEANS, JEFFERSON	NA	0.34	Pending	\$614,800,000	This project, authorized under Public Law 109-234, twolves the design and construction of a permanent protection system for the outfall canals along 17th Street, Orieans Avenue, and London Avenue and install pumps and closure structures at or near the laxefront.	-
HSDRRS	West Shore Lake Pontchartrain	PO-0062	윺	USACE	ST JOHNTHE BAPTIST, ST CHARLES, ST JAMES, ASCENSION	N/A	27	Pending	\$898,584,586	This project involves the assessment of hums are and storm reduction measures in a study area bounded by the Bonnet Carre Spliway to the east, The Missassippi Kwarto the south, Lakes Pontchartain and Maurepas to the north, and the St. James Panish Assension Pansh line to the west.	-
HSDRRS	Lake Pontchartrain and Vicinity	PO-0063	롸	USACE	ST CHARLES, JEFFERSON	N/A	128	2010	\$3,852,000,000	Lake Pontchartan and Viciniy (LPV) is the hurricane protection program that involves approximately 30 hurricane protection projects in East Jefferson and St. Charles Parishes.	-
HSDRRS	Lake Pontchartain & Vicinity, Seabrook Lock LPV-IHNC-01	PO-0064	윺	USACE	ORLEANS	N/A	0.5	2012	\$157,156,414	This project consists of a gate closure structure across the industrial Canal approximately 500 if South of the Ted Hickey Bridge at Lake Pontcharitrain to work in conjunction with the IHNC Borgne Surge Barrier.	٢
HSDRRS	HSDRRS Mitigation- LPV	PO-0121	MC	USACE	ST TAMMANY, ORLEANS	1089	N/A	Pending	\$85,000,000	This USACE project involves the implementation of various restoration measures to mitigate welland impacts associated with the construction of the Lake Pontchartrain and Vicinity (LPV) project.	-
HSDRRS	LPV Task Force Guardian Mitigation- Bayou Sauvage	PO-0145	MM, VP	USACE	ORLEANS	95	N/A	Pending	\$780,000	"This project is being betty. UsACE and is 100% decelerally funded with approximately \$7 Malm alreaded. This project is migration of approximately 147 acres tule to emergency bees work that fullized 2 bornwy pils of about 57 acres, it provides for the elimination of manhale breaks with sprawing and rechanical cleaning, and then the replanting of up to 89,000 frees and simuls of mative species, including buffering, appreciately and gales.	-
HSDRRS	Previously Authorized Mitigation LPV-Manchac	PO-0146	MC,SP	USACE	ST JOHN THE BAPTIST	1329	N/A	7/8/1905	\$22,985,958	This project is being jed by USACE and is 100% federally funded with approximately \$21.3 Million allocated. It provides for containment doles with rock and fill areas with dredge material to match the CPRA Turtle Cove project success). The project is intended to create marsh and reduce prosion.	<i>8</i> ←
LOUISIANA COASTALAREA	LCA Small Bayou Lafourche Reintroduction	BA-0070	PD	USACE	ASSUMPTION, LAFOURCHE	NA	N/A	Pending/On Hold	\$133,500,000	The project will use a small diversion (less than 5000 cfs) to reintroduce flow from the Mississippi Rever into Bayou Lafourche. Project goals include providing freshwater, sediment and nutrients needed to reduce salmly, simulating plant productivity, and reducing welland loss between Bayous Lafourche and Terebonne. Eurols from the budget surplus of 2008 will be used for the state's costanare acquirement. "Constitution rost latern from WRDA 2007 legislation.	3A
LOUISIANA COASTALAREA	LCA Medium Diversion with Dedicated Dredging at Myrtle Grove	BA-0071	FD	USACE	PLAQUEMINES	NIA	N/A	Pending/On Hold	\$278,300,000	Authorized by WRDA 2007 as a sediment diversion between 2,500 and 15,000 cts. Orgoing modeling effort to examine potential for modification from WRDA and a larger sediment diversion to portional infilling of stallow open water areas through deposition and marst expansion. "Fully funded Phase 2, cost staken from WRDA, 2007 begistlen."	2
	LCA Modification of Davis Pond Diversion	BA-0072	FD	USACE	ST CHARLES, JEFFERSON, PLAQUEMINES, LAFOURCHE	NA	N/A	Pending/On Hold	\$68,277,885	This modification project is authorized to study and design the modification of the structure and or outfall of the diversion to increase wetland restoration outputs within the Bardaria Basin.	2
LOUISIANA COASTAL AREA	LCA Modification of Caernarvon Diversion	BS-0019	FD	USACE	ST BERNARD, PLAQUEMINES	NIA	N/A	Pending/On Hold	\$21,000,000	This modification project is authorized to study and design the modification of the diversion structure and/or outfall of the diversion to increase wetland restoration outputs south of Caemarvon, west of the Mississippi River.	1
	LCA Medium Diversion at White's Ditch	BS-0020	FD	USACE	PLAQUEMINES	N/A	N/A	Pending/On Hold	\$126,686,400	A medium diversion from the Mississippi River into the central River aux Chenes area using a controlled structure to provide additional (frestwater, nutrients, and fine sediment to the area between the Mississippi River and River aux Chenes ridges.	1
LOUISIANA COASTALAREA	LCA Barataria Basin Barrier Shoreline - 2007	LA-0010	MC, BH	USACE	JEFFERSON, PLAQUEMINES, LAFOURCHE	NA	N/A	Pending/On Hold	\$363,900,000	The purpose of this project is to provide beachidune restoration and marsh creation on Caminada Headiands and Shell Island.	2
LOUISIANA COASTAL AREA	LCA Beneficial Use Feasibility Study	LA-0019	MO	USACE	COASTWIDE	NIA	N/A	Pending/On Hold	\$100,000,000	This Feasibility Study will examine increased beneficial use of dredged material from Federally authorized navigation channels.	COASTWIDE
LOUISIANA COASTALAREA	LCA Mississippi River Delta Management Study	MR-0016	ТО	USACE	PLAQUEMINES	NA	N/A	Pending/On Hold	\$25,358,136	This project involves the development of a strategic framework for feasability evaluation of improved management of fresh water, undirents, and sediment resources of the Lower Mississippi River, from the Old River Control Structure to Head of Passes, to better usustain its Deltais-Plain.	1, 2
LOUISIANA COASTALAREA	Small Diversion at Hope Canal	PO-0067	FD	USACE	ST JOHN THE BAPTIST	NA	N/A	Pending/On Hold	\$150,000,000	This project evaluates a small freshwater diversion (less than 5000 cfs) to introduce sediment and nutrients into Maurepas Swamp in corder to relative urgant. Gendomin, intervor biological parhoutibute, and prevent intervier broads a loss suggestions or the research. The state is using suppus funds as part of the required coast-saire for this project. "Tuply funded Phase 2 cost provided as the the projected cost seamake."	-
LOUISIANA COASTAL AREA	LCA Small Diversion at Convent / Blind River	PO-0068	FD	USACE	ST JAMES, ASCENSION	NA	N/A	Pending/On Hold	\$123,140,000	This project evaluates a small diversion of up to 5,000 cfs from the Mississippi River into the Blind River through a new control structure to introduce freshwater, sediments, and nutrients into the southeast portion of the Maurepas swamp.	1
LOUISIANA COASTALAREA	LCA Amite River Diversion Canal M odification (Transferred)	PO-0069	VP, HR	USACE	LIVINGSTON, ASCENSION	N/A	N/A	Transferred	\$10,760,000	The goal of this project is to reestablish hydrologic connectivity between Maurepas Swamps and natural waterbodies. The project was transferred from the LCA program and its being implemented as State project PO-142.	1
LOUISIANA COASTALAREA	LCA Maintain Land Bridge Between Caillou Lake and Gulf of Mexico	TE-0067	MC	USACE	TERREBONNE	N/A	N/A	Pending/On Hold	\$62,600,000	The goals of this project are to prevent connection between the gulf and callou. Lake by constructing shoretine protection on the gulf and cleand begun oil Large, marsh resultion, and recurson and formal begun oil Large, marsh resultion, and recurson and increase freelywater influence on marshes in project area.	38
LOUISIANA COASTAL AREA	LCA PointAu Fer	TE-0068	SP	USACE	TERREBONNE	N/A	N/A	Pending/On Hold	\$48,300,000	The goal of the project is to stabilize guif shoreline of Point Au Fer Island to prevent direct connection between guif and intenor water bodies thereby preventing conversion of existing wetlands to marine habitat.	3A
LOUISIANA COASTALAREA	LCA Terrebonne Basin Barrier Shoreline Restoration	TE-0070	Ħ	USACE	TERREBONNE	NIA	NIA	Pending/On Hold	\$133,300,000	This project provides for the restoration of the Timaher and Isless Deminers barner island chains. This would simulate historical conditions by reducing the current humber of breaches, enlaging (which and dune creat) of the Isles Deminers (Faccoon Island, East Island, Finthe Island, When Island, and Whitekey Island), Timaher Island, and Whitekey Island), Timaher Island, and Best Timaher Island.	3A
LOUISIANA COASTALAREA	LCA Convey Atchafalaya River Water to Northern Terrebonne Marshes	TE-0071	Ħ	USACE	TERREBONNE	NA	N/A	Pending/On Hold	\$349,995,500	The project would increase existing Alchafalaya River influence to central (Lake Boudreaux) and eastern (orand Bayou) Terrebonne marshes via the Gulf intracoastal Waterway (GWWW).	3A
NFWF	Carninada Headland Beach and Dune Restoration Increment 2	BA-0143	Н	N/A	JEFFERSON, LAFOURCHE	532	NIA	2016	\$147,063,587	This project will restore and protect beach and dune habital across the Caminada Headiand through the direct placement of approximately 5.4 million cubic yards of sandy material from Ship Shoal (an offshore borrow source). The project footparin begins near Bayou Mareau and extends approximately 9 miles east towards Caminada Pass. A total of 489 acres of beach and dune habital will be restored.	2
NFWF	M id-Barataria Diversion	BA-0153	QS	N/A	PLAQUEMINES	000'89	NA	Pending	In Development	The NBSO is a page and connective ckelworks and restoration profits. M BSO, when in operation would practice registrient-belan weter from the Mississip River intrough a self-connected named roughly. If smels from before outlang past the back were into nide. Beratana Brain The project hell restorate to a natural details and sedimentation processes along the Mississippi River near River Mile 80.7 its storation. The Mississippi River near River Mile 80.7 its storation of the District Connection of the Dis	2
AWH	Lower Barataria Diversion	BA-0163	SD	NIA	PLAQUEMINES	In Development	N/A	NIA	In Development	The purpose of the project is to constuct a sediment diversion to transport sediment from the Mississipp. River into the Lower Barataria Basin to restablish delise, processes in order to build, sustain, and mannian wellands. The project intends to build a sediment diversion in the lower Baratarian Bay in the when the Trempre around 50, 100 of sepacity.	2
NFWF	Lower Breton Diversion	BS-0023	SD	N/A	PLAQUEMINES	In Development	NVA	N/A	In Development	The purpose of the protect is to construct a sediment diversion to transport sediment front the Mississipp. River into this Lower Breton Sourd Basin to resetablish detail processes in order to build, sustain, and mantain wellands. The project intends to build a sediment design in the lower Breton Sound in the verifine of Black Ra around 50,000 of scapacity.	1

CDRA Druggam Name	_	State Droient		Forteral	Darish	Acres	000	Construction	Total Budget	Droject Description	
		Number	Type	Sponsor		Benefited	Levee	Completion			
NFWF Mid Breton Diversion	rersion	BS-0030	ō	NVA	PLAQUEMINES	In Development	NVA	Pending	In Development	The purpose of this project is to evaluate a sediment diversion located in the vicinity of White Ditch around 75,000 cfs.	1
NFWF Increase Atchafalaya Flow Easter Terrebonne	afalaya F low to onne	TE-0110	SD	N/A	TERREBONNE	In Development	NIA	Pending	In Development	The purpose of the protect is to utile freshwater and sediment from the Activations Preve in order to buils, sustain, and maintain westends within the Terebronne Bash. The protect intends to dregate the Optivity east of the Activations and incast a bipass situative at 8 ayou beaut Lock to increase freshwater and sediment there from Activations the previous members.	3A, 3B
NFWF East Timballer Island Restoration	Island	TE-0118	Н	N/A	LAFOURCHE	In Development	NVA	Pending	\$74,000,000	angineer and de ed island segme tect oil and gas i	3A
NRDA Cheniere Rong	quille Barrier tion	BA-0076	BH, MC	NMFS	PLAQUEMINES	408	NIA	Pending	\$38,883,175	The objective of this project is to prevent breaching of the barrier shoreline by restoring the dune and marsh platform. Project was designed under CWPPRA but will seek NRDA funds for construction.	2
NRDA Shell Island West- NRDA	est- NRDA	BA-0111	Ħ	N/A	PLAQUEMINES	347	NIA	Pending	\$110,524,280	This project aims to restore the integrity of the Shell island West barrier island, reduce wave energies within the bay area, and reestabilish productive habitat to Bastian Bay and the surrounding area. It will create 328 acres of marsh and 372 acres of dune and became the control of the co	2
NRDA Lake Hermitage Marsh Creation Increment 2	ye Marsh ment 2	BA-0141	MC	N/A	PLAQUEMINES	101	NA	2014	\$139,000,000	present. This project will create 101 acres of marsh building off of the BA-42 Lake Hermitage CWPPRA project utilizing NRDA early restoration funds.	2
NRDA Queen Bess Isl	Queen Bess Island Restoration	BA-0202	田	NA	JEFFERSON	36	N/A	N/A	\$20,000,000	This project is designed to restore suitable colonial waterbird nesting and brood rearing habitat on the island from its current size of less than 5 as de need figures 4.6 x 2.5.1 films with a secromishable by instantials directly instantial more in anarby suitable instances and source and disposing off within existing nock ring that outlines the island. The island will be purrised to a post-construction settled elevation of 5.5 NAVD 88. Small inrestone will be deposited on most of the perimeter of the island to create a low maintaintening beach-like feature for nesting terms and sufficient and sufficients. The island will be under our provide optimal nesting suits are created in the sufficient and sufficients. The island will be planted with suitable vegetation to provide optimal nesting suitstate (rivister mass, wite drises, are ratch piler. & black manning.	2
Barataria Basin NRDA Marsh Creation Increment	Barataria Basin Ridge and Marsh Creation - Spanish Pass Increment	BA-0203	O M	N/A	PLAQUEMINES	1254	N/A	NA	\$124,500,000	Spanish Pass is andural historic thoulay of the Mississippli Rere liocated west of Verice, Louislana. The natural channel banks and adjacent marsh have degraded due to natural and manmade causes. The ridge restoration feature of this project will restore 120 acres of earther independent throm the Mississippli River, near Verice LA, to create announce, 134 arrise of marsh.	2
NRDA Rabbit Island Restoration	Restoration	CS-0080	H	N/A	CAMERON	200	NA	NIA	\$27,000,000	The primary goal of the project is to restore bird habitat by dredging material from the Calcasieu Ship Channel and adding fill to the island along with constructing rock dikes and dunes. Approximately 200 acres of bird habitat will be restored.	4
NRDA Lake Borgne M Increment One	Lake Borgne Marsh Creation - Increment One	PO-0180	MC	N/A	ST BERNARD	1548	NA	N/A	\$127,000,000	This project will create approximately 1,548 acres of marsh, extending approximately four miles from Shell Beach on the southern rim of Lake Borgne to Lena Lagoon on the east.	1
NRDA NRDA Caillou I	NRDA Caillou Lake Headlands	TE-0100	Н	NVA	TERREBONNE	1272	NIA	Pending	\$111,309,000	This project aims to restore the Whiskey Island Barner 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.	3A
Terrebonne Basin Ridge and Marsh Creation - Bayou Terrebonne Increment	asin Ridge and n - Bayou crement	TE-0139	S S	N/A	TERREBONNE	1496	NVA	N/A	\$126,000,000	The Bayou Trestorine intervent of the Teneborne Basin Ridge and M sast Creation Project is a doge resturation and masts treation project between the response Parish. The ridge restoration feature of this project will express of earthern ridge, and the mash creation feature of this project will dredge seadment from offshore to create 1,370 acres of masts. This increment is part of its ages scale and solding seadment from offshore to create 1,370 acres of masts. This increment is part of its ages scale and solding statement is part of its part of the Live Livel of spirit of the treatment is part of the Livel of spirit of the Livel of the	3A
OTHER Lake Pontcharl	Lake Pontchartrain Mitigation Project	HPL-MIT	SP	N/A	ST JOHN THE BAPTIST	900	NVA	1996	\$2,222,892	This project consisted of a near-shore, segmented brakwater system in Lake P ontkhartran parallel to a five-mile reach of the Manchack Whalle Managearmer Area. The project specifically mitigated for damages resulting from construction of the Lake P ontkhartrain Hunri and Protection project.	1
OTHER Coastal Wetlands Public Outreach	nds Public	N/A	ОТ	NA	NA	N/A	N/A	NA	\$400,000	The DNR Public Information Office provides a carefy of printed materials, educational vibeos and cits, fact sheets, websites information, and a tavefally walkands solitifor the public. Other begardered tributes and fortis burilders and strong walkands without for paper, workshops, city events, and strong activities. Much of the apency's educational outrach is in partnership with the Breaux Aff 13sk force committees and the America's WEITLAND carmagin. As a result of vorkinging his several moted authors, writers and reporters, the Public information office the sources Public information office on his e	COASTWIDE
West Grand Te Nourishment a	West Grand Terre Beach Nourishment and Stabilization	BA-0197	H	N/A	JEFFERSON	In Development	NVA	N/A	\$65,000,694	The project would complete the engineering and design to build an estimated 12,700 feet of beach and dune, restore up to 66 acres of back barrier marsh and a rock revelment to protect restored marsh.	2
RESTORE Control Measu	Calcasieu Ship Channel Salinity Control Measures	CS-0065	Ŧ	N/A	CAMERON	In Development	NVA	Pending	In Development	The purpose of the project is to manage sainties being introduced into adjacent water booles through the Cak asieu. Ship Channel to reduce the rate of welland loss in the surrounding watlands. The project intends to construct features to prevent salwater from entering wetlands adjacent to Caksasieu Lake through the Calk asieu. Ship Channel. Measures would control salmty spkes and would be constructed in a manner that would allow for the continued functioning and ideally improvement and increased vability of the Caksaseu. Ship Channel and the Port of Lake Charles.	4
River Reintroduction into Maurepas Swamp	fuction into amp	PO-0029	FD	EPA	ST JOHN THE BAPTIST, ST JAMES	36121	NIA	Pending	\$147,028,735	This project intends to restore a natural hydrologic regime and increase nutrient inputs in cypress-tupelo swamp tracts south of Lake Mauereas frought the develor off Mississpin fiver water into a reas of degraded swemp. The project was onighrably proposed under CWPPPAS but underwent subsequent deapprent as a State-only project.	1
RESTORE Golden Triangle Marsh Creation	ile Marsh	PO-0163	MC	NYA	ORLEANS, ST BERNARD	In Development	NIA	NIA	\$54,550,330	This project would complete the engineering and design to create approximately 600 acres of marsh within the Golden Triange Marsh system.	-
Biloxi Marsh Living Shoreline Project	wing Shoreline	PO-0174	S P	N/A	ST BERNARD	In Development	N/A	NA	\$57,719,731	The project would create a fiving breakwater structure by mechanically placing a manufactured structure, or sulte of structures, off the shoreline of Eloi Bay and Eloi Point, near the mouth of Bayou La Loutre.	-
RESTORE Houma Naviga	Houma Navigation Canal Lock Complex	TE-0113	Ħ	N/A	TERREBONNE	In Development	NIA	Pending	In Development	The Hourna Navigation Canal Lock Complex (TE-113) is a part of the Morganza to the Gulf of Mexico Hunricane Protection Project. The Surchure will provide storm surge profestion, increase freelymentar distribution, and provide navigation along the Hourna Navigation Canal. The initial step is to meet with stakeholders to discuss alternative design considerations for optimization of the HNC Lock Complex and determine a preferred design. The next step will be to conduct Engineering and Design of the preferred design.	3A
SECTION 204/1135 MRGO, Breton Island Restoration, Mile-2.3 to 4.0	n Island le -2.3 to 4.0	NA	MO	USACE	PLAQUEMINES	26	N/A	1999	\$1,050,000	This Section 204 project utilized material from maintenance dredging activities along the Mississippi River Gulf Outlet (MRGO) to repair Breton Island.	-
SECTION 204/1135 Mile-2 to -3	n Island Berm,	NA	MO	USACE	PLAQUEMINES	NVA	NIA	1999	\$150,000	This Section 204 project utilized material from maintenance dredging activities along the Mississippi River Gulf Outlet (MRGO) to nourish the littoral system that feeds Breton Island.	1
SECTION 204/1135 Mississippi River Gulf Outlet Berm, Mile 14 to 11	er Gulf Outlet to 11	NIA	DM	USACE	ST BERNARD	90	NIA	1999	\$350,000	This Section 204 rogiest growded for the unconfined placement of 3.458 g01 cubic yands of malerial into shallow-water adiasent to the asouth jetly at about met 15.3. The material was deedged from mittes 14.0 to 1.1 of the Mississippi River Gulf Outlet (MRGO) manigation channel and placed to an elevation conductive to massiv agglation establishment.	-
SECTION 204/1135 Mile 14 to 12 (2002)	ner Gulf Outlet, (2002)	NA	DM	USACE	ST BERNARD	90	NJA	2002	\$290,000	The project involved pumping approximately 1.6 million cubit yards to create some 50 acres of marsh behind the MRGO jetby. This project was fast tracked due to the impact of Hums and Lill and Tropical Storm isdore in 2002.	-
	ner Gulf Outlet, (2003)	NIA	DM	USACE	ST BERNARD	113	NIA	2003	\$580,000	This project involved pumping 4.3 million tubic yards of sediments to create 113 acres of marsh. The material was dredged from miles 14 to 12.0 of the Mississippi River Oulf Outlet (MROO) navigation channel and placed at an elevation conducive to marsh vegetation establishment.	+
SECTION 204/1135 Barataria Bay V	Barataria Bay Waterway, Mile 31 to 24,5	NA	DM	USACE	JEFFERSON	125	N/A	1999	\$140,000	(BBWW) to create marsh habitat.	2

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CPRA Program		State Project Number	Type	Sponsor	Parisin	Benefited	Levee	Completion	l otal Budget	Project Description	Planning Unit
SECTION 204/1135	Barataria Waterway Grand Terre Island Ph 2	N/A	DM	USACE	JEFFERSON	08	N/A	2002	\$100,000	This Section 204 project provided for the beneficial placement of 500,000 cubic yards of material dredged from the Barataria Bay Waterway (BBWW) to create wetlands on the bay side of Grand Terre Island.	2
SECTION 204/1135	Calcasieu River and Pass (Sabine NWR) Phase I, III	NA	MO	USACE	CAMERON	480	NVA	1999	\$1,560,804	This Section 204 project provides for the disposal of dredged material removed from the area between mile 7.5 and 11.5 of the Cabasage (Dip Channel, A boat of 4 million cubic yards of material was deposited in three phases within the Sabine National Wildlife refutore at an elevation, conducte to marst reation.	4
SECTION 204/1135	_	DSR-81558	MO	USACE	TERREBONNE	37	N.A	1991, 2003	\$1,007,000	This Section, 204/1135 project was a cooperative effort with the USACE and included the use of beneficial dredging from a scheduled Hourra Navigational Canal maintenance dredging project to restore Wine Island.	3A
SECTION 204/1135	Barataria Bay Waterway, Grand Terre Island (Phase I)	N/A	DM	USACE	JEFFERSON	115	NVA	1996	\$1,370,000	This Section 704 project provides for the beneficial placement of 500,000 cubic yards of dredged material from the Banataria Bay Waterway (BBWW) to create wetlands on Grand Terre Island.	2
SECTION 204/1135		N.A.	MO	USACE	TERREBONNE	90	N.A.	2002	\$1,000,000	This Section 204/135 project investigated the feasibility of beneficially using the dredged material from the bar channel area in lieu of the Ocean Dredged Material Disposal Site. The project area is approximately 35 miles south of Houma, Louisian as the mouth of the manigation channel in Terebonne Bay. The construction schedule of this project was expedited due to the impact of Hunricane Lill and Troocks Storm Isadore.	38
SECTION 204/1135	Brown Lake	NIA	MC, DM	USACE	CAMERON	315	NIA	1999	\$1,132,435	The project will restore to the extent possible, the natural hydrology of the area, A reduction in marsh loss and incrinoved water conditions are expected to occur, following project implementation. Long-term water management object these will be directed towards mantation at backkes many system.	4
STATE	Alexandria to the Gulf	AT-0012	10	NVA	RAPIDES	NiA	N.A.A.	NWA	\$970,000	This feasibility study is intended to evaluate options and attendes for providing urban drainage and flood reduction to the City of Alexandria and irridation and flood reduction benefits to anricultural areas south and southeast of the city.	38
STATE	Atchafalaya Basin Natural Resources Inventory and A ssessment	AT-0013	TO	N/A	ST MARY, IBERIA, ST MARTIN	NA	NVA	NA	\$1,450,000	This project assesses and inventories the natural resources in the Altchafalaya Swarnp.	38
STATE	Naomi Siphon Diversion	BA-0003	FD	N/A	PLAQUEMINES, JEFFERSON	8200	NVA	1992	\$9,602,381	This project invoked the construction of eight parallel sphons to divert water from the Mississippi River into the adjacent wetlands near Naom', Louislana. The maximum discharge of the sphons is 2,100 cfs.	2
STATE	West Pointe a la Hache Siphon Diversion	BA-0004	FD	N/A	PLAQUEMINES	9200	NIA	1992	\$9,845,693	This project invoked the construction of eight parallel sphons to divert water from the Mississippi River into the adjacent wetlands on the west side of the river near Pointe a la Hache, Louisana. The marimum discharge of the sphons is 2,100 cfs.	2
STATE	Queen Bess	BA-0005-B	SP, DM	N/A	JEFFERSON	145	NVA	1993	\$1,475,176	The purpose of this project is to restore Queen Bess island as a brown pelican (Pelecranus occidentalis) nookery. Dredged material was added to the sland to increase is seten in 1991, and a rock disk was installed and the stored in the organisation in 1992 to armorphism the stored in the organisation in 1992 to armorphism the stored in the stand in creased after project.	2
STATE	Baie de Chactas	BA-0005-C	SP	N/A	STCHARLES	130	NVA	1990	\$175,000	Approximately 300,000 pounds of crushed oyster shell were placed on 7,400 feet of shoreline to restore the physical integray of the march shoreline separating Lake Salvador and Bale de Chactas and Bale du Cabanage.	2
STATE	Lake Salvador Shoreline Protection Extension	BA-0015-X1	SP	N/A	ST CHARLES	2035	NVA	2005	\$4,840,344	The purpose of this project is to build a rock dike that will protect the marsh shoreline along the northeastem portion of Lake Sakvador. The shoreline protection project was built on the land to avoid dredging in an area with cubural resources. This project was designed as an extension of the BA-15 Phase II CWPPRA project.	2
STATE	Bayou Segnette	BA-0016	g 8	NA	JEFFERSON	88	N/A	1994, 1998	\$1,373,151	This project where the construction of a R90-foot imension or our beam to be bank thewen Lake Sahaddor and Bayou Segmete and the installation of almost ping force a cross on abandoned access can affact connects the two water bodies. The fence is disapped to reduce we energies and crowle forces from the lake while still allowing perhange of sedment and aquak organisms. Additional OPFRA funds were appropriated for the design of this stale-tunded project. Manierance of this project was necessary in the 1989-1999 fixe a year at a cost of \$500,000.	2
STATE	Bayou Lafourche Freshwater Introduction	BA-0025	FD	N/A	LAFOURCHE	Not Available	NIA	2011	\$20,000,000	The Mississpot River diversion into Bayou Lafourche will restore coastal masthes and provide drinking water to over 300,000 residents. This project funded the dreuging of the first 6.2 miles of the bayou to accommodate a proposed increased flow of 1,000 cfs.	2
STATE	Plaquemines Parish - Southeast Louisiana Strategic Restoration	BA-0046-SF	MC	N/A	PLAQUEMINES	N/A	NIA	N/A	\$4,500,000	This project provided State funding to supplement a Plaqumines Parish dredging design project.	2
STATE	Jean Laffte Tidal Protection	BA-0075-1	Ħ	N/A	JEFFERSON	NIA	2.9	Pending	\$15,730,000	This project will provide flood protection improvements by raising 15,840 linear feet of existing earthen levee. The project will also include approximately 7600 liner feet of concrete capped, steel sheet pile floodwall and flood gales to 8 0 NAVD.	2
STATE	Rosethorne Tidal Protection	BA-0075-2	H	N/A	JEFFERSON	N/A	5.3	Pending	\$20,500,000	This project will provide flood protection improvements consisting of new earthen levees, approximately 8,010 linear feet of reinforced concrete floodwall and flood gates to 8,0 NAV.D.	2
STATE	St. Charles West Bank Hurricane Protection Levee	BA-0085	НР	N/A	ST CHARLES	N/A	6	Pending	\$14,500,000	This project is a system of levees, drainage structures and pump, stations being constructed to provide flood protection to the communities of St. Charles Parish on the West Bank of the Mississippi River.	2
STATE	Bayou LaFourche Salt Water Control Structure	BA-0091	10	N/A	LAFOURCHE	NIA	N/A	Pending	\$4,890,000	This project will allow salnify levels in Bayou Lafourche to be more effectively managed through operation of the saltwater control structure.	2
STATE	Grand Isle East End Breakwater/ Jetty Design	BA-0092	S	N/A	JEFFERSON	NIA	N/A	NVA	\$1,000,000	This project provided funding for the design of breakwaters/jetties work for Grand Isle State Park.	2
STATE	Donaldsonville to the Gulf of Mexico Hurricane Protection	BA-0115	Ŧ	USACE	ASSUMPTION, JEFFERSON, LAFOURCHE, ST JOHN THE BAPTIST, ST CHARLES, ST JAMES	NA	Not Available	Pending/On Hold	\$10,269,987	The purpose of the project is to reduce the risk of flooding from coastal storm surge and rainfal to prevent further economic losses and environmental damage in the leadstate Beat. The sproject scurumly his list selding study phase during which harons alternates to arecturing storm surge are being examined, the adequacy of the existing drinage system is being assessed, and cultural, environmental assues are being identified. The score is to study valvious alternatives that will provide flood protection from tidal, hurricane surges, and heavy rainfal events, determine the adequacy of the existing thefror drainage systems and evaluate whether additional pumping capacity is required, and analyze recreational, cultural, and environmental needs.	2
STATE	Grand Iste-Fifi Island Breakwaters	BA-0168	SP	NA	JEFFERSON	Not Available	N/A	2015	\$6,000,000	The projectivill construct breakwaters abong the southwestern portion of Fifi Island to reduce erosion on Fifisland and the bay side of Grand Isle in order to protect commercial and residential infrastructure, wetlands, and fisheries. The project includes renourishment of 1,450 feet of existing breakwaters to an elevation of 8 feet and construction of 1,450 feet of new breakwaters to an elevation of 8 feet.	2
STATE	Kraemer Bayou Boeuf Levee Lift	BA-0169	Η	N/A	LAFOURCHE	NIA	9	Pending	\$1,000,000	This project will improve and raise approximately 33,000 feet of ring levees surrounding the Kraemer Community, a forced drainage area. The levees were not sufficient during Hurrican Isaac and overtopped.	2
STATE	Breach Management Plan	BA-0170	H	ΝΆ	JEFFERSON, LAFOURCHE, PLAQUEMINES, TERREBONNE	N/A	NVA	N/A	\$7,106,511	This project whoves the development of a system wide program in handing breaching that curve within the barner island and headland system of the Louisians cosadiar. The project will extend eastward from Reacono Island to Scrided Island within the Terrebonne and Barataria Basins. The project will rectude development of identification, classification, and prioritization methodologies with recommendations for breach prevention and response measures. The project posits are to reverse landloss, increase sustainability of restration projects, reduce operations and maintenance costs, and improve excessfance.	2, 3A
STATE	Barataria Large-Scale Component E-Planning	BA-0192	Ø W	N/A	PLAQUEMINES, JEFFERSON	8070	N/A	N/A	In Development	Creation of approximately 8,070 acres of marsh in the Barataria Basin to address the sites and placement at an elevation of 2,5 feet NAV D88 to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 002 MC, 05). Project invokes components to be constructed in 1st and 2nd implementation periods.	2
STATE	Brannon Oftch	BD	g.	N/A	CALCASIEU	480	NVA	1991	\$12,440	This project included the construction of wooden therewards frence som or 2, 2010 feet of the GWW acrossform dearning thin in Calcaseu Parish. This area has separented strongine enroon in excess of 25 feet/year. The breakwarders reduce wave action from boats and the current from Brannon Dikto during periods of high discharge. Smooth condigrass (Spartina alterniflora) was also planted behind the breakwarders in order to enhance accretion and increase the stability of this site.	4

Parish Acres Miles of Benefited Levee	Acres	Parish Acres Benefited
77	I AFOLIBCHE 44 N/A	N/A LAFOLIRCHE 44 N/A
: 00	ST BERNARD 100	N/A STBERNARD 100
ERMILION 40 N/A	40	VERMILION 40
AMERON 88 N/A 1991, 1992, 1993	N/A	CAMERON 88 N/A
AMERON 6575 N/A		CAMERON 6575
AMERON 2602 N/A		CAMERON 2602
AMERON N/A N/A		CAMERON
AMERON 523 NVA		CAMERON 523
AMERON 440 N/A		CAMERON 440
AMERON 480 NA		CAMERON 480
AMERON 110 N/A		CAMERON 110
FFERSON Not Available N/A		JEFFERSON Not Available
FFERSON 50 N/A		JEFFERSON 50
CHARLES 28 N/A	550	ST CHARLES 28
FFERSON 66 NA	200	JEFFERSON 66
QUEMINES 26 N/A		PLAGUEMINES 26
RREBONNE 40 N/A	8007	TERREBONNE 40
FOURCHE 38 N/A	GA15	LAFOURCHE 38
RREBONNE 67 NJA	19	TERREBONNE 67
ALCASIEU, In Development In Development AMERON	7	CALCASIEU, VERMILION, In Development I CAMERON
AMERON 227 N/A	N/A CAMERON 227 N/A	DM N/A CAMERON 227 N/A
DASTWIDE NIA NIA	N/A	COASTWIDE NIA
FERSON, FOURCHE, NA NA BERNARD		JEFFRSON, LAFOURCHE, PLAQUEMINES, St. BERNARD
ERMILION 39000 N/A	2000	VERMILION 39000
ERMILION 96 N/A		VERMILION 96
QUEMINES 6719 N/A		PLAQUEMINES 6719
FFERSON 50 N/A		JEFFERSON 50
BERNARD 84 N/A		ST BERNARD 84

## ONGOING PROTECTION AND RESTORATION SUMMARIES

	-1		L								
CPKA Program	Name	Number	Type	Sponsor	Parisin	Acres Benefited	Levee	Completion	l otal Budget	Project Description	Planning Unit
STATE	Yellow Bayou	TV-0002-B	SP	N/A	STMARY	126	NA	1992	\$194,500	The objectives of the project were to mantain the inlegify of approximately 2,000 acres of interior marsh between Jackson Bayou and the Bitish-American Center and to stabilize 7,465 feet of the East Cote Benche Bay shoreline. This was achieved by constructing an tyes of the Benche Bench Benche Bench Benche Bench Benche Bench	38
STATE	M arsh Island Control Structures	TV-0006	M	N/A	IBERIA	643	N/A	1993	\$453,500	The objectives of this project were to reduce the rate of land loss, revegetate shallow open-water areas, and increases waterfowl food within the water management units. Flep_gated/stoplog judnets and deather can be publicated to clothood or 1993 at the northeast and southeast units to centrol water exchange between the units and the surrounding water bodies. Within the management units, canal spoil banks were breached and ditches were constructed to facilitate water movement between interior marsh ponds.	æ
STATE	Freshwater Bayou Bank Protection	TV-0011	SP	NIA	VERMILION	241	N/A	1994	\$2,177,025	This project conserves vegetated wetlands by maintaining the physical integrity of marshes that separate Freshwater Bayou and intenor water bodies. The dominant project freature consists of the construction of 24,000 linear feet of rock dike, extending north to the confluence of Bele iste Bayou and Freshwater Bayou. The original project was constructed in 1994, however, repairs were made to the stucture in 1998 and 2001.	38
STATE	Oaks/Avery Structures	TV-0013-B	SP	N/A	VERMILION, IBERIA	160	N/A	2000	\$3,107,735	This project enhanced the adjacent OWPPRA-funded TV-13a project by installing low-sill structures at the outfall of Oaks and Avery Canals to redirect more water flow through the portion of Bayou Pette Anse south of the OWW.	38
STATE	South Central Coastal Plan	TV-0054	TO	USACE	ST MARY, IBERIA, ST MARTIN	In Development	In Development	Pending	\$970,000	The South Central Coastal project was authorized \$970,000 in 2009 surplus funds. The project team, which includes the Office of Coastal Protection and Restortation, SI Mary Penals, SI, Marth Cards and and earlist, have interface a data against my entry. We aminicate competing this prises of the project by the end of 2010. This information will be used fork start the project with the US Army corps of Engineers. Once study authorization is obtained from the US congress the project will progress to the feasibility phase.	æ
STATE	Morgan City/ St Mary Flood Protection	TV-0055	Ħ	N/A	STMARY	N/A	4.5	Pending	\$3,870,000	This project will provide flood protection improvements by raising or improving over seven miles of the current levee system in the Morgan City area.	38
STATE	Delcambre-Avery Canal (E&D)	TV-0057	Ŧ	N/A	IBERIA	N/A	N/A	N/A	\$970,000	This project will design and engineer a flood control stucture for the Delcanche-Avery Canajust south of the intracoastal Wateway. When constructure this project Wijl provide flood protection improvements by allowing the obsure of the Delcanche-Avery Canaju be delicited from an of the Delcanche-Avery Canaju be delicited from surge from Yemfland Bay.	38
STATE	Bayou Tigre Flood Control Complex	TV-0075	生	N/A	IBERIA, VERMILION	N/A	Not Avail	Pending	\$6,280,000	This project will use utilize \$6,280,000 of funds re-allocated from TV-56 to design and construct a pumping station to augment flood control operations as a closure agas across Bayou Tipp, currently under desay as reproject TV-67. This project will relip mitigate prondrigh and flooding on the protected side caused M flood date closure during a lendity rain event.	38
STATE	Surplus Freshwater Bayou Bank Stabilization	TV-0076	SP	N/A	VERMILION	Not Available	AWA	2016	\$1,300,000	300,000 remaining from the ME-0025-	38
STATE	Quintana Canal/Cypremort Point	TV-4355NP1	SP	N/A	STMARY	26	N/A	1998	\$1,316,818	The project features approximately 3,650 linear feet of rock breakwaters along the Vermillon Bay shoreline and approximately 3,375 linear feet of foreshore rock dike along the Vermillon Bay/Duntana Canal intersect and the south bank of the Guintana Canal	38
STATE	Beneficial Use of I-10 Twin Span Debris (Deauthorized)	N/A	TO	NVA	ORLEANS	NA	NVA	Deauthorized	\$1,500,000	This project involves the use of Twin Span Debris as a form of shoreline protection for the Bayou Sauvage area.	-1
STATE	East of Harvey Canal Interim Hurricane Protection - Phasel	NA	윺	N/A	JEFFERSON	N/A	N/A	2009	\$4,000,000	This project involved the installation of a combination of seets pie and seathen flood protection, ultimately to an elevation of 10.0 feet along the cast side of the Harrey Canal from the sector gale at Lapako Boulevard to the existing levee at the west end, to provide inflammunitiante projection during, construction of the HSDRRS system.	2
STATE	Raising of LA 1 at Golden Meadow Floodgate and Completion of Golden Meadow Lock Structure	N.A.	Ħ	N/A	LAFOURCHE	N/A	N/A	2010	\$18,000,000	This project funded the raising of LA-1 to the 100-year flood elevation and to complete the lock in Bayou Lafourche, both critical elements of the Larose to Golden Meadow Hurkane Protection System.	2
STATE	Raising of LA 23 at LaReussite	N/A	H	NVA	PLAQUEMINES	N/A	NVA	2012	\$1,200,000	This project involves raising LA Hw. 2310 the elevation of the adjoining La Reusste Sphon guide lenees, where the highway crosses those guide levees. LDOTD performed the engineering in house and let contracts to complete the project.	2
STATE	Bay Welsh Disposal Site (Houma Navigation Canal)	N/A	MO	NVA	TERREBONNE	NA	NVA	N/A	\$300,000	The purpose of this project is to pre-clear the Bay Weish disposal site adjacent to and east of the Houma Navigation Canal.	3A
STATE	Chabert Ring Levee	NA	Η	N/A	TERREBONNE	NIA	Not Available	2008	\$500,000	The project consists of the design and construction for a segment of levee around the Chabeth Medical Center in Hourna, Louisiana. The proposed mg leve will surround the Chabert Medical Center and will provide flood protection for the facility allowing operation foung possible flood events.	3.8
STATE	Wine Island	N/A	MO	NVA	TERREBONNE	NA	NVA	2007	\$2,000,000	The purpose of this project was to beneficially use material from the dredging of the houma Navigation Canal Bay Channel on Wine Island.	3A
STATE	NRCS Biomass Production Program	NA	ΥP	NRCS	COASTWIDE	N/A	N/A	N/A	\$80,000	The NRCS-LDNR/CRD Blomass Program is a multiyear programmatic initiative to accelerate the collection, lesting, and release of important coasta welland restoration plants. The Blomass Program began in 1999 in conjunction with the LDNRCRD Smalt-Droge Program with emphasis on plant performance and dedicated decided sediment. This program is an important coastal restoration infalling the graph as a program of the program of t	COASTWIDE
STATE	NRCS Biomass Production Program	NÆ	٧٨	NWRC	COASTWIDE	NIA	NIA	N/A	\$1,552,100	This multi-year cooperative agreement funds the study of endemic wetland plant productivity, with the goal of identifying specific reminimation officials or maximum growth of a number of varieties (i.e., cuthars), within four plant species. The information obtained is intended to facilitate matching plant species and varieties to expected environmental conditions at restoration sites, thereby the intended fourcescalar neegation efforts.	COASTWIDE
STATE	NRCS Vegetative Planting	NA	۸	NRCS	COASTWIDE	609	N/A	N/A	\$399,858	This is a coastal vegetative planting program that is implemented annually and involves the installation of vegetative plantings in selected areas where vegetation is needed.	COASTWIDE
WRDA	Davis P ond Freshwater Diversion	BA-0001	6	USACE	ST CHARLES	33000	N/A	2002	\$120,000,000	The purpose of this project is to maintain and enhance the existing ecological framework of the Barataria Basin by providing freshwater untients, and sediment. This will counter safwater influsion and help offset marsh subsidence. This project can divert up to 10,650 ords.	2
WRDA	Caemanon Freshwater Diversion	8000-SB	Ð	USACE	PLAQUEMINES	16000	N/A	1991	\$24,818,800	This project divents freshwater and its accompanying nutrients and sediment from the Mississippi River to coastal bays and marshes in Breton Sound for fish and widdle enhancement. This project can divert up to 8,000 cubic feet per second.	1

#### Notes:

Program CWPPPAG-coast Verlands Planning Protektion and Restoration for State Presentation protects founder primarily by the State of Louisans, SECTION 20411 Sew Water Pressure Development Act Sections 204 and 1135 bendicial use of diregged materials projects, WRDA=W atter Resources Development Act, LCA=Louisana Coastal Area (FEMA = Federal Emergency Management Agenty Undergo projects, CAP 2017 Coastal Impact Assistance Program, Surplus 09, Surplus 08, Surplus 09=State surpus funder projects, Other Enrolled Per programs not ulterwise listed.

Agency/Spousog\_ BOEMRE=Bureau or Ocean Energy Management, Regulation, and Enforcement, EPA=Environmental Protection Agency, FERMA=Fedeat Enrogency Management Agency, HID—Plousbing and Utabla Development, MMFS=Hational Marine Federics Service, INFCS=Hational Resources Conservation Service in MFCS=Hational Wateriors Service, INFCS=Hational Westernos Research Center, USFWS=U, S. Fish and Whitele Service, USACE=US, Army Orgs of Engineers, USOS=U, S. Geological Survey.

Project Trac. BH=Barrier IslandiHeadiand, DM=Benditial Use of Dredged Maerial. FD=Freshwater Diversion, HP=Hurricane Protection, HR=Hydrotogic Restoration, MC=Marsh Creation, Marsh Creation, SNT=Sectivent and Nutrient Trapping. SP=Brocente Protection, SNT=Sectivent and Nutrient Trapping. SP=Brocente Protection, TETET strates, IPP-Peagatann Paming.

PPL: Priority Project List (as authorized each year by the CWPPRA Task Force).



## Appendix B Three-Year Expenditure Projections

Table B-1. Coastal Wetlands Planning, Protection and Restoration Act (CWPPRA) Projected Expenditures

Project ID	Project Name	FY 2018	FY 2019	FY 2020	Project Total (FY 2018 - FY 2020)
Engineeri	ng and Design (P1)				
	Caminada Headlands Back Barrier Marsh Creation				
BA-0193	Increment 2 <sup>1</sup>	\$565,952	\$125,120	\$0	\$691,072
BA-0194	East Leeville Marsh Creation and Nourishment <sup>1</sup>	\$800,000	\$600,000	\$300,000	\$1,700,000
BA-0195	Barataria Bay Rim Marsh Creation and Nourishment	\$250,000	\$175,000	\$75,000	\$500,000
CS-0049	Cameron-Creole Freshwater Introduction	\$100,000	\$0	\$0	\$100,000
CS-0078	No Name Bayou Marsh Creation and Nourishment 1	\$570,507	\$302,362	\$0	\$872,869
CS-0079	Oyster Lake Marsh Creation and Nourishment <sup>1</sup>	\$2,000,000	\$600,000	\$0	\$2,600,000
ME-0031	Freshwater Bayou Marsh Creation	\$23,891	\$11,945	\$0	\$35,836
ME-0032	South Grand Chenier Marsh Creation- Baker Tract	\$93,060	\$39,680	\$0	\$132,740
PO-0075	LaBranche East Marsh Creation	\$48,183	\$24,092	\$0	\$72,275
PO-0133	LaBranche Central Marsh Creation	\$77,393	\$33,169	\$0	\$110,562
PO-0169	New Orleans Landbridge Shoreline Stabilization and Marsh Creation <sup>1</sup>	\$542,286	\$242,172	\$0	\$784,458
PO-0173	Fritchie Marsh Creation and Terracing	\$26,280	\$26,280	\$13,140	\$65,700
PO-0178	Bayou LaLoutre Ridge Restoration and Marsh Creation <sup>1</sup>	\$1,077,905	\$1,077,905	\$1,077,905	\$3,233,715
	St. Catherine Island Marsh Creation and Shoreline				
PO-0179	Protection <sup>1</sup>	\$955,723	\$955,723	\$477,862	\$2,389,308
TE-0112	North Catfish Lake Marsh Creation	\$22,883	\$8,009	\$0	\$30,892
TE-0117	Island Road Marsh Creation and Nourishment <sup>1</sup>	\$1,151,337	\$31,543	\$0	\$1,182,881
TE-0134	West Fourchon Marsh Creation <sup>1</sup>	\$792,890	\$198,223	\$0	\$991,113
TE-0138	Bayou DeCade Ridge and Marsh Creation <sup>1</sup>	\$1,283,254	\$1,283,254	\$641,627	\$3,208,134
Construc	ction (P2)		T		
BA-0034-2	Hydrologic Restoration and Vegetative Planting in the Lac des Allemands Swamp <sup>1</sup>	\$2,008,304	\$217,342	\$0	\$2,225,646
BA-0125	Northwest Turtle Bay Marsh Creation <sup>1</sup>	\$200,000	\$16,487,209	\$10,991,473	\$27,678,682
BS-0016	South Lake Lery Shoreline and Marsh Restoration	\$321,482	\$0	\$0	\$321,482
CS-0054	Cameron-Creole Watershed Grand Bayou Marsh Creation 1	\$16,823,058	\$4,205,765	\$0	\$21,028,823
CS-0059	Oyster Bayou Marsh Creation and Terracing <sup>1</sup>	\$13,376,082	\$0	\$0	\$13,376,082
CS-0066	Cameron Meadows Marsh Creation and Terracing <sup>1</sup>	\$720,000	\$21,243,465	\$8,950,056	\$30,913,521
LA-0284	Salvinia Weevil Propagation Facility <sup>1</sup>	\$94,980	\$339,287	\$0	\$434,267
ME-0018	Rockefeller Refuge Gulf Shoreline Stabilization <sup>1</sup>	\$22,628,242	\$7,542,747	\$0	\$30,170,989
ME-0020	South Grand Chenier Marsh Creation Project	\$30,368	\$7,592	\$0	\$37,960
ME-0021	Grand Lake Shoreline Protection, Tebo Point	\$150,000	\$0	\$0	\$150,000
PO-0104	Bayou Bonfouca Marsh Creation <sup>1</sup>	\$13,607,626	\$0	\$0	\$13,607,626
TE-0072	Lost Lake Marsh Creation and Hydrologic Restoration <sup>1</sup>	\$20,173,768	\$0	\$0	\$20,173,768
TV-0063	Cole's Bayou Marsh Restoration <sup>1</sup>	\$16,434,897	\$4,108,724	\$0	\$20,543,621
Demonstr	ation Projects (P1 & P2)				
LA-0280	Shoreline Protection, Preservation, and Restoration (SPPR) Panel <sup>1</sup>	\$117,835	\$117,835	\$117,835	\$353,504
Subtotal	1	\$117,068,184	\$60,004,442	\$22,644,897	\$199,717,523
	nt for Outlying Years <sup>2</sup>	N/A	\$29,995,558	\$67,355,103	\$97,350,661
Total Expe		\$117,068,184	\$90,000,000	\$90,000,000	\$297,068,184
	xpenditures (See Table B-5)	(\$12,174,792)	\$0,000,000	\$0	(\$12,174,792)
	, , ,	, , ,			, , , , ,
	xpenditures (see Note 1)	\$96,384,103	\$75,904,989	\$76,500,081	\$248,789,173
Notes:	d Expenditures	\$8,509,289	\$14,095,011	\$13,499,919	\$36,104,219

Notes:

<sup>1-</sup> Project is being led by CPRA; projected expenditures include Federal funds; any State expenditures beyond its 15% cost share will be reimbursed by the Federal partner.

<sup>2-</sup> Because CWPPRA projects compete for funding annually, CWPPRA expenditures as presented in Table B-1 (which include projected expenditures for approved projects only) do not adequately capture likely CWPPRA expenditures in outlying years. The State's estimated CWPPRA expenditures for FY 2019 - FY 2020 are therefore based on prior years' expenditures.

Table B-2. Louisiana WRDA Projected Expenditures

Project ID	Project Name	FY 2017	FY 2018	FY 2019	Project Total (FY 2017 - FY 2019)
BA-0191	Spanish Pass Ridge and Marsh Restoration <sup>1</sup>	\$0	\$0	\$0	\$0
LA-0020	Southwest Coastal Louisiana <sup>2</sup>	\$901,048	TBD	TBD	\$901,048
Total Exp	enditures	\$901,048	\$0	\$0	\$901,048
Surplus E	xpenditures for WRDA (see Table B-6)	(\$901,048)	\$0	\$0	(\$901,048)
Trust Fun	d Expenditures for WRDA	\$0	\$0	\$0	\$0

#### Notes

Table B-3. Community Development Block Grant (CDBG) Projected Expenditures

Project ID	Project Name	FY 2018	FY 2019	FY 2020	Project Total (FY 2018 - FY 2020)
BA-0082	Lafitte Area Levee Repair	\$700,000	\$0	\$0	\$700,000
TE-0063	Falgout Canal Road Levee <sup>1</sup>	\$2,000,000	\$0	\$0	\$2,000,000
TE-0078	Cut-Off/Pointe Aux Chene Levee	\$7,095,000	\$0	\$0	\$7,095,000
N/A	CDBG Program Administration	\$11,680	\$11,680	\$0	\$23,360
Total Expen	ditures	\$9,806,680	\$11,680	\$0	\$9,818,360

Notes:

Table B-4. State-Only Project Expenditures (Non-Surplus)

Project ID	Project Name	FY 2018	FY 2019	FY 2020	Project Total (FY 2018 - FY 2020)
<b>MOEX Proj</b>	ects				
	Mississippi River Delta Strategic Planning-				
MR-0016-S	SSPM Expansion <sup>1</sup>	\$0	\$0	\$0	\$0
	Hydrologic Restoration of the Amite River				
PO-0142	Diversion Canal <sup>1</sup>	\$704,687	\$131,250	\$704,687	\$1,540,624
Capital Out	tlay Projects				
BA-0066	West Bank and Vicinity <sup>2</sup>	\$560,000	\$0	\$0	\$560,000
BA-0075-1	Jean Lafitte Tidal Protection <sup>3</sup>	\$0	\$0	\$0	\$0
BA-0075-2	Rosethorne Tidal Protection <sup>3</sup>	\$0	\$0	\$0	\$0
TE-0064	Morganza to the Gulf <sup>2</sup>	\$15,000,000	\$0	\$0	\$15,000,000
LDOTD Into	eragency Transfer Projects				
TE-0108	HNC Deepening Section 203 Study	\$73,600	\$0	\$0	\$73,600
Projects wi	th Trust Fund Expenditures				
BA-0109	HSDRRS Mitigation- WBV <sup>3</sup>	\$50,000	\$50,000	\$50,000	\$150,000
BA-0154	Previously Authorized Mitigation WBV <sup>3</sup>	\$50,000	\$50,000	\$50,000	\$150,000
	New Orleans to Venice Mitigation-				
BA-0158	Plaquemines Non-Fed <sup>3</sup>	\$5,840	\$11,680	\$11,680	\$29,200
BA-0159	New Orleans to Venice Mitigation- Fed <sup>3</sup>	\$5,840	\$11,680	\$11,680	\$29,200
PO-0057	SELA- Overall <sup>3</sup>	\$20,440	\$20,440	\$20,440	\$61,320
PO-0121	HSDRRS Mitigation- LPV <sup>3</sup>	\$56,064	\$56,064	\$56,064	\$168,192
Total State	Expenditures	\$16,526,471	\$331,114	\$904,551	\$17,762,136

#### Note

- 1- Projected expenditures are for post-construction activities including site assessment, nutria control, and vegetative plantings.
- 2- Project receiving supplemental funding from Surplus funds (see Table B-5).
- 3- Project is currently 100% Federal. Projected expenditures are for staff coordination with Federal project team members.

<sup>1-</sup> Project construction is anticipated to continue into FY 2018, but all CPRA expenditures are anticipated to be complete by the end of FY 2017.

<sup>2-</sup> Project expenditures are funded through Surplus revenues (see Table B-5); expenditures in future fiscal years will be covered with accrued credit or Trust Fund dollars.

<sup>1-</sup> Project is anticipated to complete construction in FY 2017; FY 2018 expenditures are for closeout activities.

Table B-5. Surplus Projected Expenditures (2007, 2008, 2009)

Project ID	Project Name	FY 2018	FY 2019	FY 2020	Project Total (FY 2018 - FY 2020)
BA-0025	Bayou Lafourche Freshwater Introduction <sup>1</sup>	\$848,740	\$0	\$0	\$848,740
BA-0043 (EB)	Mississippi River Long Distance Sediment Pipeline <sup>2</sup>	\$10,700,527	\$0	\$0	\$10,700,527
BA-0045	Caminada Headland Beach and Dune Restoration <sup>3</sup>	\$159,016	\$126,508	\$0	\$285,524
	Medium Diversion with Dedicated Dredging at Myrtle				
BA-0071	Grove <sup>4</sup>	\$3,860,892	\$0	\$0	\$3,860,892
BA-0075-1	Jean Lafitte Tidal Protection	\$10,000,000	\$4,500,000	\$0	\$14,500,000
BA-0075-2	Rosethorne Tidal Protection	\$4,500,000	\$5,500,000	\$0	\$10,000,000
BA-0085	St. Charles West Bank Hurricane Levee Protection	\$4,000,000	\$2,116,368	\$0	\$6,116,368
BA-0115	Donaldsonville to the Gulf⁵	\$1,325,833	\$0	\$0	\$1,325,833
BA-0169	Kraemer/Bayou Boeuf Levee Lift	\$1,000,000	\$0	\$0	\$1,000,000
CS-0004	Cameron Creole Levee <sup>6</sup>	\$2,876,528	\$0	\$0	\$2,876,528
LA-0020	Southwest Coastal Louisiana	\$901,048	\$0	\$0	\$901,048
ME-0025 (SF)	Marsh Creation near Freshwater Bayou	\$0	\$0	\$0	\$0
PO-0062	West Shore Lake Pontchartrain	\$3,500,000	\$0	\$0	\$3,500,000
PO-0063	Lake Pontchartrain and Vicinity	\$17,478,316	\$2,922,920	\$1,106,000	\$21,507,236
PO-0072	Biloxi Marsh <sup>6</sup>	\$849,395	\$0	\$0	\$849,395
PO-0167	St. Tammany Parish Coastal Protection Study	\$1,200,000	\$700,000	\$0	\$1,900,000
PO-0170	Violet Canal North Levee Alignment <sup>7</sup>	\$219,874	\$0	\$0	\$219,874
TE-0064	Morganza to the Gulf	\$10,700,000	\$600,000	\$0	\$11,300,000
TE-0065-SP	Larose to Golden Meadow- Larose Sheetpile	\$2,000,000	\$0	\$0	\$2,000,000
TE-0113	Houma Navigation Canal Lock Complex	\$8,000,000	\$0	\$0	\$8,000,000
TE-0116	St. Mary Backwater Flooding	\$2,147,950	\$536,988	\$0	\$2,684,938
TV-0054	South Central Coastal Plan	\$449,420	\$0	\$0	\$449,420
TV-0055	Morgan City/ St Mary Flood Protection	\$5,162,062	\$0	\$0	\$5,162,062
TV-0057	Delcambre-Avery Canal (E&D)	\$103,892	\$0	\$0	\$103,892
TV-0067	Bayou Tigre Flood Control Project	\$500,000	\$2,488,375	\$2,488,375	\$5,476,750
TV-0075	Bayou Tigre Flood Control Complex	\$3,421,200	\$2,280,800	\$0	\$5,702,000
N/A	East of Harvey Canal	\$161,399	\$0	\$0	\$161,399
N/A	Southeast Louisiana Flood Protection/ LERRDS <sup>8</sup>	\$47,161,375	\$3,429,800	\$3,460,000	\$54,051,175
Programma	tic and Non-Project Surplus Expenditures				
	Atchafalaya Basin Natural Resources Inventory and				
AT-0013	Assessment <sup>6</sup>	\$289,120	\$0	\$0	\$289,120
LA-0026	Rehabilitation and Repair of State Restoration Projects <sup>6</sup>	\$759,739	\$0	\$0	\$759,739
LA-0027	Barrier Island Maintenance Program	\$2,644,359	\$0	\$0	\$2,644,359
N/A	Science, Technology, and Education Coastal Wetlands Planning, Protection and Restoration	\$0	\$0	\$0	\$0
N/A	Act (CWPPRA) <sup>6</sup>	\$624,870	\$0	\$0	\$624,870
LA-0025	Innovative Coast-Wide Initiatives	\$0	\$0	\$0	\$0
N/A	Beneficial Use	\$1,709,653	\$0	\$0	\$1,709,653
N/A	Emergency Reserve	\$6,263,645	\$0	\$0	\$6,263,645
N/A	Innovative Programs	\$876,143	\$0	\$0	\$876,143
LA-0259	University Partnerships	\$126,320	\$0	\$0	\$126,320
N/A	Non-Structural Program Development <sup>9</sup>	\$500,000	\$798,551	\$0	\$1,298,551
	Levee Engineering and Design Standards Development				
LA-0265	and Analysis	\$4,263,087	\$0	\$0	\$4,263,087
Total Expendi Notes:	tures	\$161,284,403	\$26,000,310	\$7,054,375	\$194,339,088

#### Notes:

- 1- Expenditures represent contingency funds to cover post-construction activities.
- 2- Includes funding for Large-Scale Barataria Marsh Creation (BA-0192) and CWPPRA projects (see Table B-1).
- 3- Surplus funds include post-construction monitoring expenditures (see Table B-8).
- 4- Includes funding for Diversion Modeling and Model Improvement (LA-0282).
- 5- Expenditures may be used for project closeout and to supplement funding of other coastal projects.
- 6- Expenditures may be used to supplement funding of other coastal projects.
- 7- Project constructed with leftover funds from project PO-0061 (completed in FY 2011).
- 8- Includes funds that may be used for West Bank and Vicinity (BA-0066), HSDRRS Mitigation-West Bank and Vicinity (BA-0109), HSDRRS Mitigation-Lake Pontchartrain and Vicinity (PO-0121), SELA (PO-0057), Permanent Closure of Canals and Pump Stations (PO-0060), LPV Task Force Guardian Mitigation-Bayou Sauvage (PO-0145), Previously Authorized Mitigation LPV-Manchac (PO-0146), Previously Authorized Mitigation-WBV (BA-0154), New Orleans to Venice (BA-0067), New Orleans to Venice Mitigation-Plaquemines Non-Fed (BA-0158), New Orleans to Venice Mitigation-Fed (BA-0159), and/or Plaquemines TFU Mitigation-Braithwaite to Scarsdale (BA-0156).
- 9- Funds will be used to develop a coordinated strategy for implementing nonstructural projects in coastal communities. This may also include development of pilot projects in coastal parishes with high levels of risk and vulnerability.

Table B-6. CWPPRA Monitoring Projected Expenditures

Project No.	WPPRA Monitoring Projected Expenditures  Project Name	FY 2018	FY 2019	FY 2020	Project Total (FY 2018 - FY 2020)
AT-0002	Atchafalaya Sediment Delivery	\$39,760	\$2,920	\$0	\$42,680
AT-0003	Big Island Mining	\$13,760	\$2,920	\$0	\$16,680
BA-0002 BA-0003-C	GIWW (Gulf Intracoastal Waterway) to Clovelly Hydrologic Restoration  Naomi Outfall Management	\$56,617 \$15.090	\$31,797 \$28.004	\$85,817 \$19.094	\$174,230 \$62,188
BA-0003-C	Jonathan Davis Wetland Protection	\$2,920	\$16,936	\$8,760	\$28,616
BA-0027-C	Barataria Landbridge Shoreline Protection (Phase 3)	\$5,840	\$4,380	\$19,272	\$29,492
BA-0034-2	Hydrologic Restoration and Vegetative Planting in the Des Allemands	Ò			
	Swamp	\$114,140	\$45,300	\$47,344	\$206,784
BA-0035 BA-0036	Chaland Pass to Grand Bayou  Dedicated Dredging on the Barataria Basin Landbridge	\$5,840 \$11,680	\$68,760 \$2,920	\$15,840 \$2,920	\$90,440 \$17,520
BA-0037	Little Lake Shoreline Protection/Dedicated Dredging Near Round Lake	\$9,344	\$5,840	\$5,840	\$21,024
BA-0038	Barataria Barrier Island Complex Project: Pelican Island and Pass La Mer to Chaland Pass Restoration	\$14,600	\$4,380	\$15,840	\$34,820
BA-0039	Mississippi River Sediment Delivery (Bayou Dupont)	\$95,180	\$9,670	\$9,920	\$114,770
BA-0042	Lake Hermitage Marsh Creation	\$82,703	\$14,625	\$76,625	\$173,953
BA-0048	Bayou Dupont Marsh and Ridge Creation	\$18,843	\$17,428	\$38,016	\$74,287
BA-0068	Grand Liard Marsh and Ridge Restoration	\$5,840	\$105,680	\$30,520	\$142,040
BA-0164 BA-0173	Bayou Dupont Sediment Delivery Marsh Creation #3 Bayou Grande Chenier Marsh and Ridge Restoration	\$21,255 \$2,336	\$2,920 \$85,070	\$2,920 \$25,112	\$27,095 \$112,518
BS-0003-A	Caernaryon Diversion Outfall Management	\$2,920	\$2,920	\$2,920	\$8,760
BS-0011	Delta Management at Fort St. Philip	\$14,600	\$8,760	\$2,920	\$26,280
BS-0016	South Lake Lery Shoreline and Marsh Restoration	\$8,760	\$15,056	\$2,336	\$26,152
CS-0004-A	Cameron-Creole Maintenance	\$30,368	\$44,384	\$44,384	\$119,136
CS-0011-B	Sweet Lake/Willow Lake Hydrologic Restoration	\$2,920	\$2,920	\$2,920	\$8,760
CS-0017 CS-0020	Cameron Creole Plugs East Mud Lake Marsh Management	\$2,920 \$2,920	\$0 \$2,920	\$0 \$2,920	\$2,920 \$8,760
CS-0020	Highway 384 Hydrologic Restoration	\$2,920	\$26,572	\$19,272	\$48,764
CS-0022	Clear Marais Bank Protection	\$2,920	\$2,920	\$2,920	\$8,760
	Replace Sabine Refuge Water Control Structures at Headquarters Canal,				
CS-0023	West Cove Canal, and Hog Island Gully	\$6,132	\$19,272	\$19,272	\$44,676
CS-0024 CS-0027	Perry Ridge Shore Protection  Black Bayou Hydrologic Restoration	\$16,936 \$33,958	\$2,920 \$31,038	\$2,920 \$18,190	\$22,776 \$83,187
CS-0028-3	Sabine Refuge Marsh Creation, Increment 3	\$37,008	\$12,264	\$8,760	\$58,032
CS-0028-4	Sabine Refuge Marsh Creation, Increment 4	\$37,008	\$12,264	\$8,760	\$58,032
CS-0029	Black Bayou Culverts Hydrologic Restoration	\$2,920	\$2,920	\$16,936	\$22,776
CS-0030	GIWW - Perry Ridge West Bank Stabilization	\$2,920	\$2,920	\$6,132	\$11,972
CS-0031 CS-0032	Holly Beach Sand Management  East Sabine Lake Hydrologic Restoration	\$19,272	\$16,936	\$2,920 \$12,264	\$39,128
CS-0052 CS-0053	Kelso Bayou Marsh Creation	\$2,920 \$0	\$12,264 \$0	\$2,920	\$27,448 \$2,920
CS-0059	Oyster Bayou Marsh Creation & Terracing	\$14,950	\$29,950	\$43,966	\$88,867
LA-0008	Bioengineered Oyster Reef Demonstration	\$21,608	\$2,920	\$0	\$24,528
LA-0016	Non-Rock Alternatives for Shoreline Protection Demonstration Project	\$71,608	\$2,920	\$0	\$74,528
LA-0039	Coastwide Plantings Program	\$76,504	\$63,656	\$63,656	\$203,816
LA-0003-B ME-0004	Coastwide Nutria Control Plan Freshwater Bayou Wetland (Phases 1 & 2)	\$152,920 \$17,236	\$152,920 \$19,856	\$152,920 \$2,920	\$458,760 \$40,012
ME-0011	Humble Canal Hydrologic Restoration	\$17,022	\$31,038	\$31,038	\$79,099
ME-0013	Freshwater Bayou Bank Stabilization	\$16,310	\$12,264	\$0	\$28,574
ME-0014	Pecan Island Terracing	\$4,088	\$2,920	\$2,920	\$9,928
ME-0016	Freshwater Introduction South of Highway 82	\$15,022	\$30,206	\$29,038	\$74,267
ME-0018 ME-0019	Rockefeller Refuge Gulf Shoreline Stabilization Grand-White Lakes Landbridge Protection	\$0 \$2,920	\$11,680 \$2,920	\$65,844 \$2,920	\$77,524 \$8,760
ME-0019	South Grand Chenier Hydrologic Restoration Project	\$7,008	\$16,936	\$16,936	\$40,880
ME-0022	South White Lake Shoreline Protection	\$2,920	\$2,920	\$2,920	\$8,760
MR-0003	West Bay Sediment Diversion	\$2,920	\$176,440	\$14,600	\$193,960
MR-0006	Channel Armor Gap Crevasse	\$7,008	\$0	\$0	\$7,008
MR-0009	Delta-Wide Crevasses	\$186,747	\$8,760	\$2,336	\$197,843
PO-0006 PO-0016	Fritchie Marsh Restoration  Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1	\$2,920	\$14,600	\$8,760	\$26,280
PO-0018	Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 2	\$2,920	\$2,920	\$2,920 \$2,920	\$8,760
PO-0022	Bayou Chevee Shoreline Protection	\$11,680 \$8,760	\$2,920 \$2,336	\$2,920 \$7,592	\$17,520 \$18,688
PO-0024	Hopedale Hydrologic Restoration	\$2,920	\$2,920	\$2,920	\$8,760
PO-0033	Goose Point/Point Platte Marsh Creation	\$4,672	\$8,760	\$2,336	\$15,768
PO-0104	Bayou Bonfouca Marsh Creation	\$43,507	\$2,336	\$43,784	\$89,627
TE-0020	Isle Dernieres Restoration East Island	\$16,352	\$20,440	\$20,440	\$57,232
TE-0022	Point Au Fer Canal Plugs  Lake Chapeau Sediment Input and Hydrologic Restoration, Point Au Fer	\$2,336	\$2,278	\$2,290	\$6,903
TE-0026	Island	\$10,512	\$2,920	\$2,920	\$16,352
TE-0028	Brady Canaly Hydrologic Restoration	\$38,688	\$15,840	\$0	\$54,528
TE-0034	Penchant Basin Natural Resources Plan, Increment 1	\$167,520	\$67,520	\$5,840	\$240,880
TE-0037	New Cut Dune/Marsh Restoration	\$11,680 \$17,520	\$2,920 \$17,520	\$2,920 \$594	\$17,520 \$35,634
TE-0040	Timbalier Island Dune/Marsh Restoration  North Lake Mechant Landbridge Restoration	\$17,520 \$3,504	\$17,520 \$31,700	\$584 \$29,200	\$35,624 \$64,404
TF_0044		\$7,125	\$7,125	\$29,200 \$7,125	\$21,374
TE-0044 TE-0046	Tyvest Lake Boudreaux Shoreline Protection and Marsh Creation		ψ.,υ		
TE-0046	West Lake Boudreaux Shoreline Protection and Marsh Creation Raccoon Island Shoreline Protection/Marsh Creation	\$68,760	\$48,760	\$8,760	\$126,280
TE-0046 TE-0048 TE-0050	Raccoon Island Shoreline Protection/Marsh Creation Whiskey Island Back Barrier Marsh Creation	\$68,760 \$14,016	\$5,840	\$5,840	\$25,696
TE-0046 TE-0048 TE-0050 TE-0052	Raccoon Island Shoreline Protection/Marsh Creation Whiskey Island Back Barrier Marsh Creation West Belle Pass Barrier Headland Restoration	\$68,760 \$14,016 \$5,840	\$5,840 \$5,840	\$5,840 \$5,840	\$25,696 \$17,520
TE-0046 TE-0048 TE-0050	Raccoon Island Shoreline Protection/Marsh Creation Whiskey Island Back Barrier Marsh Creation	\$68,760 \$14,016	\$5,840	\$5,840	\$25,696

Table B-6. CWPPRA Monitoring Projected Expenditures

Project No.	Project Name	FY 2018	FY 2019	FY 2020	Project Total (FY 2018 - FY 2020)
TV-0013-A	Oaks/Avery Canal Hydrologic Restoration, Increment 1	\$2,920	\$8,968	\$16,936	\$28,824
TV-0014	Marsh Island Hydrologic Restoration	\$16,936	\$6,966	\$20,982	\$44,884
TV-0015	Sediment Trapping at "The Jaws"	\$20,156	\$16,936	\$2,920	\$40,012
TV-0017	Lake Portage Land Bridge	\$2,920	\$16,936	\$16,936	\$36,792
TV-0018	Four Mile Canal Terracing and Sediment Trapping	\$2,920	\$2,920	\$2,920	\$8,760
TV-0021	East Marsh Island Marsh Creation	\$22,458	\$11,362	\$12,264	\$46,085
TV-0063	Coles Bayou Marsh Restoration	\$17,016	\$8,760	\$28,864	\$54,640
CRMS	Coastwide Reference Monitoring System	\$8,862,955	\$8,920,075	\$8,928,835	\$26,711,866
	Total Expenditures	\$10,800,264	\$10,551,145	\$10,271,445	\$31,622,854
	Federal CWPPRA Monitoring Expenditures	\$9,180,224	\$8,968,474	\$8,730,728	\$26,879,426
	Trust Fund CWPPRA Monitoring Expenditures	\$1,620,040	\$1,582,672	\$1,540,717	\$4,743,428

Table B-7. Projected Expenditures for Monitoring of WRDA Projects

Project ID	Project Name	FY 2018	FY 2019	FY 2020	Project Total (FY 2018 - FY 2020)
BA-0001	Davis Pond Freshwater Diversion <sup>1</sup>	\$611,284	\$653,999	\$693,455	\$1,958,738
BS-0008	Caernarvon Freshwater Diversion <sup>1</sup>	\$501,334	\$536,352	\$567,572	\$1,605,257
	Total Expenditures	\$1,112,618	\$1,190,351	\$1,261,027	\$3,563,995
	Federal WRDA Monitoring Expenditures	\$834,463	\$892,763	\$945,770	\$2,672,996
	NFWF WRDA Monitoring Expenditures (See Table B-13)	\$253,422	\$253,422	\$253,422	\$760,266
	State WRDA Monitoring Expenditures	\$24,732	\$44,166	\$61,835	\$130,733

Notes:

Table B-8. Projected Expenditures for Monitoring of Other Projects

Project ID	Project Name	FY 2018	FY 2019	FY 2020	Project Total (FY 2018 - FY 2020)
Berm to Barrier					
BA-0040	Riverine Sand Mining/Scofield Island Restoration	\$84,372	\$5,840	\$5,840	\$96,052
BA-0110	Shell Island East	\$14,600	\$8,760	\$15,840	\$39,200
NFWF Projects					
BA-0143	Caminada Headland Beach and Dune Restoration Increment 2	\$785,250	\$656,500	\$268,000	\$1,709,750
NRDA Projects					
BA-0111	Shell Island West	\$154,961	\$134,680	\$26,420	\$316,061
BA-0141	NRDA Lake Hermitage Marsh Creation Increment 2	\$29,016	\$60,440	\$29,016	\$118,472
BA-0142	NRDA Cheniere Ronquille	\$151,709	\$114,040	\$24,080	\$289,829
TE-0100	NRDA Caillou Lake Headlands	\$355,479	\$165,117	\$163,213	\$683,809
Surplus Project					
BA-0045	Caminada Headland Restoration	\$109,016	\$126,508	\$0	\$235,524
USACE Mitigation	on Projects				
BA-0109	HSDRRS Mitigation - WBV	\$7,300	\$7,300	\$7,300	\$21,900
BA-0154	Previously Authorized Mitigation - WBV	\$7,300	\$7,300	\$7,300	\$21,900
PO-0038SF	MRGO Closure Structure	\$7,300	\$7,300	\$7,300	\$21,900
PO-0093	MRGO - Lake Borgne -Bayou Dupre Segment	\$7,300	\$7,300	\$7,300	\$21,900
PO-0094	MRGO - Lake Borgne -Bayou Bienvenue Segment	\$7,300	\$7,300	\$7,300	\$21,900
PO-0095	MRGO - Lake Borgne -Shell Beach Segment	\$7,300	\$7,300	\$7,300	\$21,900
PO-0121	HSDRRS Mitigation - LPV	\$7,300	\$7,300	\$7,300	\$21,900
PO-0145	LPV Task Force Guardian Mitigation - Bayou Sauvage	\$7,300	\$7,300	\$7,300	\$21,900
PO-0146	LPV Mitigation Project, Manchac WMA Marsh Creation	\$7,300	\$7,300	\$7,300	\$21,900
LOSCO Projects	S				
AT-0016	Bayou Sorrel, Frog Lake	\$7,008	\$7,008	\$7,008	\$21,024
BA-0188	OPA Lake Washington/Mendicant	\$7,008	\$7,008	\$7,008	\$21,024
BA-0196	LOSCO- EML	\$31,680	\$21,680	\$21,680	\$75,040
CS-0072	OPA Calcasieu River	\$9,344	\$9,344	\$9,344	\$28,032
LA-0278	General Oil Spill- LOSCO	\$29,200	\$29,200	\$29,200	\$87,600
MR-0027	OPA Joseph's Bayou I & II	\$7,008	\$7,008	\$7,008	\$21,024
MR-0165	OPA Gretna/Mississippi River	\$7,008	\$7,008	\$7,008	\$21,024
MR-0166	OPA Dune Energy - Garden Island Bay	\$7,008	\$7,008	\$7,008	\$21,024
TE-0121	OPA Hilcorp Bay St. Elaine	\$7,008	\$7,008	\$7,008	\$21,024
State-Only Proje	ects				
PO-0142	Hydrologic Restoration of the Amite River Diversion Canal	\$52,984	\$66,087	\$44,795	\$163,866
PO-0148	Living Shoreline	\$59,084	\$37,916	\$65,379	\$162,379
PO-0152	Lake Borgne and MRGO Shoreline Protection	\$7,300	\$7,300	\$7,300	\$21,900
	Total Expenditures	\$1,981,744	\$1,551,160	\$817,855	\$4,166,479
	Berm to Barrier Expenditures	\$98,972	\$14,600	\$21,680	\$135,252
	NFWF Expenditures	\$785,250	\$656,500	\$268,000	\$1,709,750
	NRDA Expenditures	\$691,166	\$474,277	\$242,729	\$1,408,171
	Surplus Expenditures	\$109,016	\$126,508	\$0	\$235,524
	LOSCO Expenditures	\$112,272	\$102,272	\$102,272	\$316,816
	Trust Fund Expenditures	\$185,068	\$177,003	\$183,174	\$545,245

<sup>1-</sup> Monitoring expenditures partially funded with NFWF Adaptive Management funds (See Table B-13).

Notes:
1- Monitoring expenditures funded with Berm to Barrier funds.
2- Monitoring expenditures funded with Surplus funds (see Table B-5).

Table B-9. CWPPRA Projects with O&M Budget Project Expenditures 1,2,3

An Opport   March	Project No.	Project Name	FY 2018	FY 2019	FY 2020	Project Total (FY 2018 - FY 2020)
AA.00032	AT-0002					\$15,768
AA-00030   Contact   Section   Sec						
Associated   Ass						
According   September   Sept				. , -		
AA0026	BA-0023					
AA.0027 C   Baratant Basin Landhridge Shreeline Protection, Phase 3   \$2,000   \$2,308   \$2,338   \$3,7592	BA-0026					\$2,865,044
Annother	BA-0027		\$2,920	\$2,336		\$7,592
AA0034   2	BA-0027-C					\$7,592
AA0035						
Annotesis				. ,		
Appointment   September   Se						
AA-0039						
AA-0041   South Shore of the Pen Shoreline Protection and Marsh Creation	BA-0039					\$18,420
BA-0088   Bayou Duport Marsh and Ridge Creation   \$80.873   \$39.28   \$233.275	BA-0041	South Shore of the Pen Shoreline Protection and Marsh Creation	\$5,840		\$5,840	\$144,856
BA-0086   Grand Liard Marsh and Ridge Restoration   \$80,911   \$90,928   \$171,757   \$180,003   \$10,003   \$10,003   \$10,003   \$20,140   \$70,440   \$70,440   \$10,003	BA-0042					\$35,449
BA-0173   Bayou Dupont Sediment Delivery. Marsh Creation 3   \$91,856   \$99,928   \$99,865   \$201,140,800   BA-0173   Bayou Grander Chemier Marsh and Ridge Restoration   \$9   \$71,040   \$70,440   \$71,400   BS-0003-A   Caremaron Diversion Outfall Management   \$41,055   \$42,232   \$42,233   \$125,701   BS-00110   Delta Management at Ford St. Philipp   \$8,5840   \$8,540   \$17,520   BS-00110   South Lake Lery Shorleirle and Marsh Restoration   \$8,540   \$8,540   \$17,520   BS-00120   Caremaron Diversion Outfall Management   \$9,540   \$8,540   \$17,520   BS-00121   Caremaron Creder Pulsa   \$9,540   \$10,540   \$10,540   BS-00224   Caremaron Creder Pulsa   \$1,540   \$10,540   \$10,540   BS-0021   Caremon Creder Pulsa   \$2,451   \$2,620   \$10,540   \$10,540   BS-0021   Caremon Creder Pulsa   \$2,451   \$2,620   \$2,630   \$7,840   BS-0021   Caremon Creder Pulsa   \$2,451   \$2,020   \$2,653   \$2,003   \$7,840   BS-0021   Caremon Creder Pulsa   \$2,451   \$2,003   \$2,653   \$2,203   \$7,840   BS-0021   Caremon Creder Pulsa   \$2,451   \$2,003   \$2,803   \$7,840   BS-0022   Cale Marsh Banagement   \$59,651   \$2,263   \$2,203   \$2,803   \$8,818   BS-0022   Cale Marsh Banagement   \$3,945   \$1,940   \$2,245   \$2,203   \$2,803   \$8,818   BS-0022   Cale Marsh Banagement   \$3,945   \$3,745	BA-0048					\$233,275
Badout Grande Chenier Marsh and Ridge Restoration						
Section   Sect						
Second   Delta Management at Fort St. Philip						
Second   Second Lake Lery Shoreine and Marsh Restoration   \$5.40   \$5.840   \$17.520   \$5.840   \$17.520   \$5.800   \$11.520   \$5.800   \$11.520   \$3.800   \$31.800   \$31.800   \$31.800   \$33.800   \$32.800   \$3						
Section   Sect						
Campron   Create   American   Campron   Camp			,			
September   Sept	CS-0004-A					\$426,271
Sean   Sean   National Wildliffe Refuge Erosion Protection   \$2,483   \$2,628   \$2,003   \$57,894   \$2,002   \$20,003   \$57,894   \$2,002   \$20,003   \$57,894   \$2,002   \$20,003   \$20,003   \$57,894   \$2,002   \$20,003   \$57,894   \$2,003   \$57,894   \$2,003   \$57,894   \$2,003   \$57,894   \$2,003   \$57,894   \$2,003   \$57,894   \$2,003   \$57,894   \$2,003   \$57,894   \$2,003   \$57,894   \$2,003   \$57,894   \$2,003   \$57,894   \$2,003   \$57,894   \$2,003   \$57,894   \$2,003   \$57,894   \$2,003   \$57,894   \$2,003   \$57,894   \$2,003   \$57,894   \$2,003   \$57,894   \$2,003   \$2,003   \$57,894   \$2,003   \$2	CS-0011-B	Sweet Lake/Willow Lake Hydrologic Restoration				\$7,884
CS-0020         East Mud Lake Marsh Management         \$36,6:17         \$2,0:20         \$2,0:20         \$2,0:20         \$20,20:20         \$20,20:20         \$20,20:20         \$20,20:20         \$20,20:20         \$20,20:20         \$20,20:20         \$20,20:20         \$20,20:30         \$80,8:8:18         \$20,20:20         \$20,20:30         \$80,8:8:18         \$20,20:30         \$80,8:8:18         \$20,20:30         \$80,8:8:18         \$20,20:30         \$20,20:30         \$80,8:8:18         \$20,20:30         \$20,20:30         \$80,8:8:18         \$20,20:30         \$20,20:30         \$81,8:8:8         \$40,80:30         \$11,8:8:8         \$40,80:30         \$11,8:8:8         \$40,80:30         \$11,5:8:8         \$40,80:30         \$11,5:8:8         \$40,80:30         \$11,5:8:8         \$40,80:30         \$11,5:8:8         \$40,80:30         \$11,5:8:8         \$40,80:30         \$11,5:8:8         \$40,80:30         \$11,5:8:8         \$40,80:30         \$11,5:8:8         \$40,80:30         \$11,5:8:8         \$40,80:30         \$11,5:8:8         \$40,80:30         \$11,5:8:8         \$40,80:30         \$11,5:8:8         \$40,80:30         \$11,5:8:8         \$40,80:30         \$11,5:8:8         \$40,80:30         \$11,5:8:8         \$40,80:30         \$11,5:8:30         \$50,90:30         \$21,4:30         \$50,5:8:30         \$40,2:20:30         \$40,2:20:30         \$40,2:20:30	CS-0017		\$2,453	\$0	\$0	\$2,453
S-0021   Highway 384 Hydrologic Restoration   \$22,920   \$23,095   \$22,803   \$68.818   S-0022   Clear Marias Bank Protection   \$82,453   \$2,628   \$2,809   \$87,884   CS-0023   Replace Sabine Refuge Water Control Structures at Headquarters Canal, West   \$37,453   \$37,628   \$40,803   \$115,884   \$37,024   Perry Ridge Shore Protection   \$5,659,765   \$2,628   \$2,803   \$7,884   \$30,0024   Perry Ridge Shore Protection   \$5,659,765   \$2,628   \$2,803   \$7,884   \$30,0024   Perry Ridge Shore Protection   \$5,659,765   \$2,628   \$2,803   \$7,828   \$30,0024   \$2,0024   Perry Ridge Shore Protection   \$5,659,760   \$12,028   \$12,028   \$21,203   \$5,808,191   \$30,000   \$30,000   \$31,000	CS-0018					\$7,884
CS-0022   Clear Marais Bank Protection   S82.453   \$2.628   \$2.803   \$37.628   \$3.002   \$15.884   \$2.002   \$37.602						\$541,948
Replace Sabine Refuge Water Control Structures at Headquarters Canal, West   \$37,453   \$37,628   \$40,803   \$115,884   \$20,0024   Perry Ridge Shore Protection   \$2,453   \$2,628   \$2,803   \$7,884   \$20,0027   \$12,0028   \$12,0028   \$12,003   \$5,868,191   \$12,003   \$5,868,191   \$12,003						
CS-0024	CS-0022		\$82,453	\$2,628	\$2,803	\$87,884
S-9027	CS-0023	Cove Canal, and Hog Island Gully		· ·	· ·	\$115,884
Septime						
S-90028-4   Sabine Refuge Marsh Creation, Increment 5   \$69,340   \$2,628   \$2,803   \$74,771						
Sebolus   Sabine Refuge Marsh Creation, Increment 5   \$69.340   \$2.628   \$2.803   \$77.771						
S27,009   Black Bayou Culverts Hydrologic Restoration   \$27,008   \$27,300   \$27,592   \$81,900   \$25,030   \$34,000						
CS-0030						
CS-0031	CS-0030					\$352,943
C3-0049   Cameron-Creole Freshwater Introduction - Vegetative Plantings   \$424,600   \$59,052   \$59,344   \$542,996   \$20,0059   Cameron-Creole Watershed Grand Bayou Marsh Creation   \$131,650   \$2,628   \$2,803   \$137,081   \$20,0059   Oyster Bayou Marsh Creation & Terracing   \$90,614   \$2,628   \$2,803   \$396,045   \$2,803   \$396,045   \$2,803   \$396,045   \$2,803   \$396,045   \$2,803   \$396,045   \$2,803   \$396,045   \$2,803   \$396,045   \$2,803   \$396,045   \$2,803   \$39,050   \$2,305,079   \$3,315,739	CS-0031	Holly Beach Sand Management	\$37,008	\$2,628	\$2,803	\$42,439
CS-0054   Cameron-Croele Watershed Grand Bayou Marsh Creation	CS-0032					\$7,884
CS-0059   Oyster Bayou Marsh Creation & Terracing   \$90.614   \$2.628   \$2.803   \$95.045     LA-0003-B   Coastwide Nutria Control Program   \$3.305.016   \$3.315,739   \$3.315,739   \$9.936,494     LA-0016   Non-Rock Alternatives for Shoreline Protection Demonstration Project   \$2.453   \$2.628   \$2.803   \$7.884     LA-0039   Coastwide Plantings Program   \$8.760   \$8.760   \$11,680   \$29.200     ME-0004   Freshwater Bayou Weltand (Phases 1 & 2)   \$2.453   \$2.628   \$2.803   \$7.884     ME-0009   Cameron Prairie National Wildlife Refuge Shoreline Protection   \$2.453   \$2.628   \$2.803   \$7.884     ME-0011   Humble Canal Hydrologic Restoration   \$17.453   \$17.628   \$17.803   \$52.884     ME-0013   Freshwater Bayou Dank Stabilization   \$2.453   \$2.628   \$2.803   \$7.884     ME-0014   Pecan Island Terracing   \$2.453   \$2.628   \$2.803   \$7.884     ME-0016   Freshwater Introduction South of Highway 82   \$12.453   \$2.628   \$2.803   \$7.884     ME-0018   Rockefeller Refuge Gulf Shoreline Stabilization   \$2.453   \$2.628   \$2.803   \$7.884     ME-0019   Grand-White Lakes Landbridge Protection   \$2.453   \$2.628   \$2.803   \$7.884     ME-0020   South Grand Chenier Hydrologic Restoration Project   \$568,378   \$2.628   \$2.803   \$7.884     ME-0021   Grand Lake Shoreline Protection   \$2.453   \$2.628   \$2.803   \$7.884     ME-0022   Grand Lake Shoreline Protection   \$2.453   \$2.628   \$2.803   \$7.884     ME-0023   South White Lake Shoreline Protection   \$2.453   \$2.628   \$2.803   \$7.884     ME-0024   Grand Lake Shoreline Protection   \$2.453   \$2.628   \$2.803   \$7.884     ME-0025   South White Lake Shoreline Protection   \$2.453   \$2.628   \$2.803   \$7.884     ME-0026   Grand Lake Shoreline Protection   \$2.453   \$2.628   \$2.803   \$7.884     ME-0027   Grand Lake Shoreline Protection   \$2.658   \$2.803   \$7.884     ME-0028   South White Lake Shoreline Protection   \$2.658   \$2.658   \$2.803   \$7.884     ME-0029   Delta Wide Crevasses   \$6.140   \$6.140   \$6.140   \$6.140   \$6.140   \$6.140   \$6.140   \$6.140   \$6.140   \$6.140   \$6.140   \$6.140   \$6.140						\$542,996
LA-0003-B   Coastwide Nutria Control Program   \$3,305.016   \$3,315,739   \$3,315,739   \$9,936,494   LA-0016   Non-Rock Alternatives for Shoreline Protection Demonstration Project   \$2,453   \$2,628   \$2,803   \$7,884   LA-0039   Coastwide Plantings Program   \$8,760   \$8,760   \$11,680   \$29,200   \$2,453   \$2,628   \$2,803   \$7,884   \$8,00004   Freshwater Bayou Wetland (Phases 1 & 2)   \$2,453   \$2,628   \$2,803   \$7,884   \$8,00004   Freshwater Bayou Wetland (Phases 1 & 2)   \$2,453   \$2,628   \$2,803   \$7,884   \$8,00009   Cameron Prairie National Wildliffe Refuge Shoreline Protection   \$2,453   \$2,628   \$2,803   \$7,884   \$8,0011   Humble Canal Hydrologic Restoration   \$17,453   \$17,628   \$17,803   \$52,884   \$8,0013   \$7,884   \$8,0013   Freshwater Bayou Bank Stabilization   \$2,453   \$2,628   \$2,803   \$7,884   \$8,0014   Pecan Island Terracing   \$2,453   \$2,628   \$2,803   \$7,884   \$8,0016   Freshwater Introduction South of Highway 82   \$12,453   \$12,628   \$12,803   \$37,884   \$8,0016   Freshwater Introduction South of Highway 82   \$12,453   \$12,628   \$12,803   \$37,884   \$8,0019   Grand-White Lakes Landbridge Protection   \$2,453   \$2,628   \$2,803   \$7,884   \$8,0019   Grand-White Lakes Landbridge Protection   \$2,453   \$2,628   \$2,803   \$7,884   \$8,0019   Grand-White Lake Shoreline Protection   \$2,453   \$2,628   \$2,803   \$7,884   \$8,0019   Grand-White Lake Shoreline Protection   \$2,453   \$2,628   \$2,803   \$7,884   \$8,0022   South White Lake Shoreline Protection   \$3,0000   \$2,7,950   \$2,2000   \$2,2000   \$2,2000   \$2,2000   \$2,2000   \$2,2000   \$2,2000   \$2,2000   \$2,2000   \$2,2000   \$2,2000   \$2,2000   \$2,2000   \$						
LA-0016   Non-Rock Alternatives for Shoreline Protection Demonstration Project   \$2.453   \$2.628   \$2.803   \$7.884						
LA-0039						
ME-0004         Freshwater Bayou Wetland (Phases 1 & 2)         \$2,453         \$2,628         \$2,803         \$7,884           ME-0009         Cameron Prairie National Wildlife Refuge Shoreline Protection         \$2,453         \$2,628         \$2,803         \$7,884           ME-0011         Humble Canal Hydrologic Restoration         \$17,453         \$17,628         \$17,803         \$52,884           ME-0013         Freshwater Bayou Bank Stabilization         \$2,453         \$2,628         \$2,803         \$7,884           ME-0014         Pecan Island Terracing         \$2,453         \$2,628         \$2,803         \$7,884           ME-0016         Freshwater Introduction South of Highway 82         \$12,453         \$12,628         \$12,803         \$37,884           ME-0018         Rockefeller Refuge Gulf Shoreline Stabilization         \$2,453         \$2,628         \$2,803         \$7,884           ME-0019         Grand-White Lakes Landbridge Protection         \$2,453         \$2,628         \$2,803         \$7,884           ME-0020         South Grand Chenier Hydrologic Restoration Project         \$568,378         \$2,628         \$2,803         \$573,809           ME-0021         Grand Lake Shoreline Protection (CIAP + Tebo Point)         \$12,453         \$1,2628         \$12,803         \$37,884           ME-00						, , , , , ,
ME-0009         Cameron Prairie National Wildlife Refuge Shoreline Protection         \$2,453         \$2,628         \$2,803         \$7,884           ME-0011         Humble Canal Hydrologic Restoration         \$17,625         \$17,628         \$17,803         \$52,883         \$52,883         \$52,883         \$52,883         \$52,883         \$52,883         \$52,883         \$17,884           ME-0014         Pecan Island Terracing         \$2,453         \$2,628         \$2,803         \$7,884           ME-0016         Freshwater Introduction South of Highway 82         \$12,625         \$12,628         \$12,803         \$37,884           ME-0018         Rockefeller Refuge Gulf Shoreline Stabilization         \$2,453         \$2,628         \$2,803         \$7,884           ME-0019         Grand-White Lakes Landbridge Protection         \$2,453         \$2,628         \$2,803         \$7,884           ME-0020         South Grand Chenier Hydrologic Restoration Project         \$568,378         \$2,628         \$2,803         \$57,384           ME-0021         Grand Lake Shoreline Protection (CIAP + Tebo Point)         \$12,453         \$12,628         \$12,803         \$37,884           ME-0022         South White Lake Shoreline Protection         \$2,453         \$2,628         \$2,803         \$7,884           MR-0009         D						
ME-0013         Freshwater Bayou Bank Stabilization         \$2,453         \$2,628         \$2,803         \$7,884           ME-0016         Pecan Island Terraduction South of Highway 82         \$12,453         \$1,262         \$12,803         \$37,884           ME-0018         Rockefeller Refuge Gulf Shoreline Stabilization         \$2,453         \$2,628         \$2,803         \$7,884           ME-0019         Grand-White Lakes Landbridge Protection         \$2,453         \$2,628         \$2,803         \$7,884           ME-0021         Grand Lake Shoreline Protection (CIAP + Tebo Point)         \$12,453         \$12,628         \$12,803         \$37,884           ME-0021         Grand Lake Shoreline Protection (CIAP + Tebo Point)         \$12,453         \$12,628         \$12,803         \$37,884           ME-0022         South White Lake Shoreline Protection         \$2,463         \$2,628         \$2,803         \$7,884           ME-0023         South White Lake Shoreline Protection         \$2,463         \$2,628         \$2,803         \$7,844           ME-0026         South White Lake Shoreline Protection         \$2,463         \$2,628         \$2,803         \$7,844           ME-0027         Delta Wide Creases         \$6,140         \$6,140         \$6,140         \$6,140         \$6,140         \$6,140         \$6,140	ME-0009					\$7,884
ME-0014         Pecan Island Terracing         \$2,453         \$2,628         \$2,803         \$7,884           ME-0016         Freshwater Introduction South of Highway 82         \$12,453         \$12,628         \$12,803         \$37,884           ME-0018         Rockefeller Refuge Gulf Shoreline Stabilization         \$2,453         \$2,628         \$2,803         \$7,884           ME-0019         Grand-White Lakes Landbridge Protection         \$2,453         \$2,628         \$2,803         \$7,884           ME-0020         South Grand Chenier Hydrologic Restoration Project         \$568,378         \$2,628         \$2,803         \$573,809           ME-0021         Grand Lake Shoreline Protection (CIAP + Tebo Point)         \$12,453         \$12,628         \$12,803         \$37,884           ME-0022         South White Lake Shoreline Protection         \$2,453         \$2,628         \$2,803         \$573,809           ME-0021         South White Lake Shoreline Protection         \$2,453         \$2,628         \$2,803         \$37,884           ME-0021         South White Lake Shoreline Protection         \$2,453         \$2,628         \$2,803         \$37,884           ME-0021         Busayou Sausayage National Wildlife Refuge Hydrologic Restoration, Phase 1         \$26,960         \$27,596         \$27,596         \$27,596         \$27,5	ME-0011	Humble Canal Hydrologic Restoration	\$17,453	\$17,628	\$17,803	\$52,884
ME-0016         Freshwater Introduction South of Highway 82         \$12,453         \$12,628         \$12,803         \$37,884           ME-0018         Rockefeller Refuge Gulf Shoreline Stabilization         \$2,453         \$2,628         \$2,803         \$7,884           ME-0019         Grand-White Lakes Landbridge Protection         \$2,453         \$2,628         \$2,803         \$7,884           ME-0020         South Grand Chenier Hydrologic Restoration Project         \$568,378         \$2,628         \$2,803         \$573,809           ME-0021         Grand Lake Shoreline Protection (CIAP + Tebo Point)         \$12,453         \$12,628         \$12,803         \$37,884           ME-0022         South White Lake Shoreline Protection         \$2,453         \$2,628         \$2,803         \$7,884           ME-0029         Delta Wide Crevasses         \$6,140	ME-0013	Freshwater Bayou Bank Stabilization	\$2,453	\$2,628	\$2,803	\$7,884
ME-0018         Rockefeller Refuge Gulf Shoreline Stabilization         \$2,453         \$2,628         \$2,803         \$7,884           ME-0019         Grand-White Lakes Landbridge Protection         \$2,453         \$2,628         \$2,803         \$7,884           ME-0020         South Grand Chenier Hydrologic Restoration Project         \$568,378         \$2,628         \$2,803         \$573,809           ME-0021         Grand Lake Shoreline Protection (CIAP + Tebo Point)         \$12,453         \$12,628         \$12,803         \$37,884           ME-0022         South White Lake Shoreline Protection         \$2,453         \$2,628         \$2,803         \$7,884           MR-0009         Delta Wide Crevasses         \$6,140         \$6,140         \$6,140         \$18,420           PO-0006         Fritchie Marsh Restoration         \$5,840         \$5,540         \$22,596         \$22,596         \$22,596						
ME-0019         Grand-White Lakes Landbridge Protection         \$2,453         \$2,628         \$2,803         \$7,884           ME-0020         South Grand Chenier Hydrologic Restoration Project         \$568,378         \$2,628         \$2,803         \$573,809           ME-0021         Grand Lake Shoreline Protection (CIAP + Tebo Point)         \$12,453         \$12,628         \$12,803         \$37,884           ME-0022         South White Lake Shoreline Protection         \$2,453         \$2,628         \$2,803         \$7,884           MR-0009         Delta Wide Crevasses         \$6,140         \$6,140         \$6,140         \$18,420           PO-0006         Fritchie Marsh Restoration         \$5,840         \$5,840         \$5,840         \$5,840         \$17,520           PO-0018         Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1         \$26,960         \$27,596         \$82,152           PO-0018         Bayou Suvage National Wildlife Refuge Hydrologic Restoration, Phase 2         \$24,570         \$25,141         \$52,141         \$74,852           PO-0022         Bayou Chevee Shoreline Protection         \$19,622         \$14,016         \$14,016         \$47,654           PO-0024         Hopedale Hydrologic Restoration         \$28,876         \$28,976         \$86,822           PO-0033						
ME-0020         South Grand Chenier Hydrologic Restoration Project         \$568,378         \$2,628         \$2,803         \$573,809           ME-0021         Grand Lake Shoreline Protection (CIAP + Tebo Point)         \$12,453         \$12,628         \$12,803         \$37,884           ME-0022         South White Lake Shoreline Protection         \$2,453         \$2,628         \$2,803         \$7,884           MR-0009         Delta Wide Crevasses         \$6,140         \$6,140         \$18,420           PO-0006         Fritchie Marsh Restoration         \$5,840         \$5,840         \$5,840         \$17,520           PO-0016         Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1         \$26,960         \$27,596         \$27,596         \$82,152           PO-0018         Bayou Chevee Shoreline Protection         \$19,622         \$14,016         \$14,016         \$47,654           PO-0022         Bayou Chevee Shoreline Protection         \$19,622         \$14,016         \$14,016         \$47,654           PO-0034         Hopedale Hydrologic Restoration         \$83,00         \$28,976         \$28,976         \$86,822           PO-0030         Lake Borgne Shoreline Protection         \$83,176         \$5,840         \$5,840         \$94,986           PO-0075         Labranche East Marsh Creation <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
ME-0021         Grand Lake Shoreline Protection (CIAP + Tebo Point)         \$12,453         \$12,628         \$12,803         \$37,884           ME-0022         South White Lake Shoreline Protection         \$2,453         \$2,628         \$2,803         \$7,884           MR-0009         Delta Wide Crevasses         \$6,140         \$6,140         \$6,140         \$18,420           PO-0006         Fritchie Marsh Restoration         \$5,840         \$5,840         \$5,840         \$17,520           PO-016         Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1         \$26,960         \$27,596						
ME-0022         South White Lake Shoreline Protection         \$2,453         \$2,628         \$2,803         \$7,884           MR-0009         Delta Wide Crevasses         \$6,140         \$6,140         \$6,140         \$18,420           PO-0006         Fritchie Marsh Restoration         \$5,840         \$5,840         \$5,840         \$17,520           PO-016         Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1         \$26,960         \$27,596         \$27,596         \$82,152           PO-018         Bayou Chevee Shoreline Protection         \$19,622         \$14,016         \$14,016         \$47,654           PO-0022         Bayou Chevee Shoreline Protection         \$19,622         \$14,016         \$14,016         \$47,654           PO-0034         Hopedale Hydrologic Restoration         \$28,870         \$28,976         \$28,976         \$86,822           PO-030         Lake Borgne Shoreline Protection         \$84,060         \$84,060         \$6,140         \$174,260           PO-0033         Goose Point/Point Platte Marsh Creation         \$83,176         \$5,840         \$5,840         \$94,856           PO-0104         Bayou Bonfouca Marsh Creation Project         \$22,008         \$7,008         \$22,008         \$5,102           PO-0133         Labranche Central Marsh Creation						
MR-0009   Delta Wide Crevasses   \$6,140   \$6,140   \$6,140   \$18,420						
PO-0006         Fritchie Marsh Restoration         \$5,840         \$5,840         \$5,840         \$17,520           PO-0016         Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1         \$26,960         \$27,596         \$27,596         \$82,152           PO-0018         Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 2         \$24,570         \$25,141         \$25,141         \$74,852           PO-0022         Bayou Chevee Shoreline Protection         \$19,622         \$14,016         \$14,016         \$47,654           PO-0024         Hopedale Hydrologic Restoration         \$28,870         \$28,976         \$28,976         \$86,822           PO-033         Lake Borgne Shoreline Protection         \$84,060         \$84,060         \$6,140         \$174,260           PO-0075         Labranche East Marsh Creation         \$83,176         \$5,840         \$94,856           PO-0103         Labranche Central Marsh Creation Project         \$22,008         \$7,008         \$22,008           PO-0103         Labranche Central Marsh Creation         \$0         \$4,088         \$4,088         \$8,176           PO-0133         Labranche Central Marsh Creation         \$0         \$4,088         \$4,088         \$8,176           TE-0022         Point au Fer Canal Plugs         \$36,213						\$18,420
PO-0016         Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1         \$26,960         \$27,596         \$27,596         \$82,152           PO-0018         Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 2         \$24,570         \$25,141         \$25,141         \$74,852           PO-0022         Bayou Chevee Shoreline Protection         \$19,622         \$14,016         \$14,016         \$47,654           PO-0024         Hopedale Hydrologic Restoration         \$28,870         \$28,976	PO-0006		\$5,840			\$17,520
PO-0022         Bayou Chevee Shoreline Protection         \$19,622         \$14,016         \$47,654           PO-0024         Hopedale Hydrologic Restoration         \$28,870         \$28,976         \$28,976         \$86,822           PO-0030         Lake Borgne Shoreline Protection         \$34,060         \$84,060         \$6,140         \$174,260           PO-0033         Goose Point/Point Platte Marsh Creation         \$83,176         \$5,840         \$5,840         \$94,856           PO-0075         Labranche East Marsh Creation         \$0         \$4,088         \$4,088         \$8,176           PO-0104         Bayou Bonfouca Marsh Creation Project         \$22,008         \$7,008         \$22,008         \$51,024           PO-0133         Labranche Central Marsh Creation         \$0         \$4,088         \$4,088         \$8,176           TE-0022         Point au Fer Canal Plugs         \$36,213         \$7,242         \$7,242         \$50,696           TE-0023 (USACE)         West Belle Pass Headland Restoration         \$5,490         \$2,336         \$2,336         \$10,162           TE-0026         Lake Chapeau Sediment Input and Hydrologic Restoration, Point Au Fer Island         \$47,432         \$7,242         \$7,242         \$485,915           TE-0028         Brady Canal Hydrologic Rest.         \$83,68	PO-0016	Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1	\$26,960	\$27,596		\$82,152
PO-0024         Hopedale Hydrologic Restoration         \$28,870         \$28,976         \$28,976         \$86,822           PO-0030         Lake Borgne Shoreline Protection         \$84,060         \$84,060         \$6,140         \$174,260           PO-0033         Goose Point/Point Platte Marsh Creation         \$83,176         \$5,840         \$5,840         \$94,856           PO-0075         Labranche East Marsh Creation         \$0         \$4,088         \$4,088         \$4,088         \$8,176           PO-0104         Bayou Bonfouca Marsh Creation Project         \$22,008         \$7,008         \$22,008         \$51,028           PO-0133         Labranche Central Marsh Creation         \$0         \$4,088         \$4,088         \$8,176           TE-0022         Point au Fer Canal Plugs         \$36,213         \$7,242         \$7,242         \$50,696           TE-0023 (USACE)         West Belle Pass Headland Restoration         \$5,490         \$2,336         \$2,336         \$10,162           TE-0026         Lake Chapeau Sediment Input and Hydrologic Restoration, Point Au Fer Island         \$471,432         \$7,242         \$7,242         \$485,915           TE-0028         Brady Canal Hydrologic Rest.         \$83,680         \$38,060         \$38,060         \$159,800           TE-0034         Pencha	PO-0018					\$74,852
PO-0030         Lake Borgné Shoreline Protection         \$84,060         \$84,060         \$6,140         \$174,260           PO-0033         Goose Point/Point Platte Marsh Creation         \$83,176         \$5,840         \$5,840         \$94,856           PO-0075         Labranche East Marsh Creation         \$0         \$4,088         \$4,088         \$8,176           PO-0104         Bayou Bonfouca Marsh Creation Project         \$22,008         \$7,008         \$22,008         \$51,024           PO-0133         Labranche Central Marsh Creation         \$0         \$4,088         \$4,088         \$8,176           TE-0022         Point au Fer Canal Plugs         \$36,213         \$7,242         \$7,242         \$50,696           TE-0023 (USACE)         West Belle Pass Headland Restoration         \$5,490         \$2,336         \$2,336         \$10,162           TE-0026         Lake Chapeau Sediment Input and Hydrologic Restoration, Point Au Fer Island         \$471,432         \$7,242         \$7,242         \$485,915           TE-0028         Brady Canal Hydrologic Rest.         \$83,680         \$38,060         \$38,060         \$15,980           TE-0034         Penchant Basin Natural Resources Plan         Increment 1         \$102,008         \$5,490         \$61,680         \$161,770           TE-0037						
PO-0033         Goose Point/Point Platte Marsh Creation         \$83,176         \$5,840         \$5,840         \$94,856           PO-0075         Labranche East Marsh Creation         \$0         \$4,088         \$4,088         \$8,176           PO-0104         Bayou Bonfouca Marsh Creation Project         \$22,008         \$7,008         \$22,008         \$51,024           PO-0133         Labranche Central Marsh Creation         \$0         \$4,088         \$4,088         \$8,176           TE-0022         Point au Fer Canal Plugs         \$36,213         \$7,242         \$7,242         \$50,696           TE-0023 (USACE)         West Belle Pass Headland Restoration         \$5,490         \$2,336         \$2,336         \$10,162           TE-0026         Lake Chapeau Sediment Input and Hydrologic Restoration, Point Au Fer Island         \$471,432         \$7,242         \$7,242         \$485,915           TE-0028         Brady Canal Hydrologic Rest.         \$83,680         \$38,060         \$38,060         \$38,060         \$159,800           TE-0034         Penchant Basin Natural Resources Plan Increment 1         \$102,008         \$5,490         \$61,680         \$161,770           TE-0037         New Cut Dune and Marsh Restoration         \$138,760         \$17,520         \$5,490         \$161,770						
PO-0075         Labranche East Marsh Creation         \$0         \$4,088         \$4,088         \$8,176           PO-0104         Bayou Bonfouca Marsh Creation Project         \$22,008         \$7,008         \$22,008         \$51,024           PO-0133         Labranche Central Marsh Creation         \$0         \$4,088         \$4,088         \$8,176           TE-0022         Point au Fer Canal Plugs         \$36,213         \$7,242         \$7,242         \$50,696           TE-0023 (USACE)         West Belle Pass Headland Restoration         \$5,490         \$2,336         \$2,336         \$10,162           TE-0026         Lake Chapeau Sediment Input and Hydrologic Restoration, Point Au Fer Island         \$471,432         \$7,242         \$7,242         \$485,915           TE-0028         Brady Canal Hydrologic Rest.         \$83,680         \$38,060         \$38,060         \$159,800           TE-0034         Penchant Basin Natural Resources Plan         Increment 1         \$102,008         \$5,490         \$61,680         \$169,178           TE-0037         New Cut Dune and Marsh Restoration         \$138,760         \$17,520         \$5,490         \$161,770						
PO-0104         Bayou Bonfouca Marsh Creation Project         \$22,008         \$7,008         \$22,008         \$51,024           PO-0133         Labranche Central Marsh Creation         \$0         \$4,088         \$4,088         \$8,176           TE-0022         Point au Fer Canal Plugs         \$36,213         \$7,242         \$7,242         \$50,696           TE-0023 (USACE)         West Belle Pass Headland Restoration         \$5,490         \$2,336         \$2,336         \$10,162           TE-0026         Lake Chapeau Sediment Input and Hydrologic Restoration, Point Au Fer Island         \$471,432         \$7,242         \$7,242         \$485,915           TE-0028         Brady Canal Hydrologic Rest.         \$83,680         \$38,060         \$38,060         \$159,800           TE-0034         Penchant Basin Natural Resources Plan         Increment 1         \$102,008         \$5,490         \$61,680         \$161,670           TE-0037         New Cut Dune and Marsh Restoration         \$138,760         \$17,520         \$5,490         \$161,770						
PO-0133         Labranche Central Marsh Creation         \$0         \$4,088         \$4,088         \$8,176           TE-0022         Point au Fer Canal Plugs         \$36,213         \$7,242         \$7,242         \$50,696           TE-0023 (USACE)         West Belle Pass Headland Restoration         \$5,490         \$2,336         \$2,336         \$10,162           TE-0026         Lake Chapeau Sediment Input and Hydrologic Restoration, Point Au Fer Island         \$471,432         \$7,242         \$7,242         \$485,915           TE-0028         Brady Canal Hydrologic Rest.         \$83,680         \$38,060         \$38,060         \$159,800           TE-0034         Penchant Basin Natural Resources Plan         Increment 1         \$102,008         \$5,490         \$61,680         \$169,178           TE-0037         New Cut Dune and Marsh Restoration         \$138,760         \$17,520         \$5,490         \$161,770						
TE-0022         Point au Fer Canal Plugs         \$36,213         \$7,242         \$7,242         \$50,696           TE-0023 (USACE)         West Belle Pass Headland Restoration         \$5,490         \$2,336         \$2,336         \$10,162           TE-0026         Lake Chapeau Sediment Input and Hydrologic Restoration, Point Au Fer Island         \$47,1432         \$7,242         \$7,242         \$485,915           TE-0028         Brady Canal Hydrologic Rest.         \$83,680         \$38,060         \$38,060         \$159,800           TE-0034         Penchant Basin Natural Resources Plan         Increment 1         \$102,008         \$5,490         \$61,680         \$16,800           TE-0037         New Cut Dune and Marsh Restoration         \$138,760         \$17,520         \$5,490         \$161,770						
TE-0023 (USACE)         West Belle Pass Headland Restoration         \$5,490         \$2,336         \$2,336         \$10,162           TE-0026         Lake Chapeau Sediment Input and Hydrologic Restoration, Point Au Fer Island         \$471,432         \$7,242         \$7,242         \$485,915           TE-0028         Brady Canal Hydrologic Rest.         \$83,680         \$38,060         \$38,060         \$159,800           TE-0034         Penchant Basin Natural Resources Plan         Increment 1         \$102,008         \$5,490         \$61,680         \$16,800           TE-0037         New Cut Dune and Marsh Restoration         \$138,760         \$17,520         \$5,490         \$161,770	TE-0022					\$50,696
TE-0026         Lake Chapeau Sediment Input and Hydrologic Restoration, Point Au Fer Island         \$471,432         \$7,242         \$7,242         \$485,915           TE-0028         Brady Canal Hydrologic Rest.         \$83,680         \$38,060         \$38,060         \$159,800           TE-0034         Penchant Basin Natural Resources Plan         Increment 1         \$102,008         \$5,490         \$61,680         \$169,178           TE-0037         New Cut Dune and Marsh Restoration         \$138,760         \$17,520         \$5,490         \$161,770	TE-0023 (USACE)					\$10,162
TE-0028         Brady Canal Hydrologic Rest.         \$83,680         \$38,060         \$38,060         \$159,800           TE-0034         Penchant Basin Natural Resources Plan         Increment 1         \$102,008         \$5,490         \$61,680         \$169,178           TE-0037         New Cut Dune and Marsh Restoration         \$138,760         \$17,520         \$5,490         \$161,770	TE-0026	Lake Chapeau Sediment Input and Hydrologic Restoration, Point Au Fer Island	\$471,432	\$7,242	\$7,242	\$485,915
TE-0037 New Cut Dune and Marsh Restoration \$138,760 \$17,520 \$5,490 \$161,770	TE-0028					\$159,800
	TE-0034					\$169,178
	TE-0037 TE-0039	New Cut Dune and Marsh Restoration South Lake Decade Freshwater Introduction	\$138,760 \$2,920	\$17,520 \$2,453	\$5,490 \$2,453	\$161,770 \$7,826

Table B-9. CWPPRA Projects with O&M Budget Project Expenditures 1,2,3

Project No.	Project Name	FY 2018	FY 2019	FY 2020	Project Total (FY 2018 - FY 2020)
TE-0043	GIWW Bank Restoration of Critical Areas in Terrebonne	\$42,928	\$5,490	\$5,490	\$53,907
TE-0044	North Lake Mechant Landbridge Restoration	\$1,545,040	\$5,490	\$5,490	\$1,556,019
TE-0045	Terrebonne Bay Shore Protection Demonstration	\$13,504	\$0	\$0	\$13,504
TE-0046	West Lake Boudreaux Shoreline Protection and Marsh Creation	\$17,300	\$5,490	\$5,490	\$28,279
TE-0048	Raccoon Island Shoreline Protection/Marsh Creation	\$2,210,772	\$17,520	\$5,490	\$2,233,781
TE-0050	Whiskey Island Back Barrier Marsh Creation	\$4,380	\$5,490	\$5,490	\$15,359
TE-0052	West Belle Pass Barrier Headland Restoration	\$453,330	\$5,490	\$5,490	\$464,309
TE-0072	Lost Lake Marsh Creation and Hydrologic Restoration	\$37,300	\$5,490	\$5,490	\$48,280
TV-0003	Vermilion River Cutoff Bank Protection	\$2,453	\$2,628	\$2,803	\$7,884
TV-0004	Cote Blanche Hydrologic Restoration	\$12,453	\$12,628	\$12,803	\$37,884
TV-0012	Little Vermilion Bay Sediment Trapping	\$57,008	\$2,628	\$2,803	\$62,439
TV-0013-A	Oaks/Avery Canal Hydrologic Restoration, Increment 1	\$343,564	\$2,628	\$2,803	\$348,995
TV-0014	Marsh Island Hydrologic Restoration	\$2,453	\$2,628	\$2,803	\$7,884
TV-0015	Sediment Trapping at "The Jaws"	\$52,453	\$2,628	\$2,803	\$57,884
TV-0017	Lake Portage Land Bridge	\$2,453	\$2,628	\$2,803	\$7,884
TV-0018	Four Mile Canal Terracing and Sediment Trapping	\$37,008	\$2,628	\$2,803	\$42,439
TV-0021	East Marsh Island Marsh Creation	\$104,774	\$2,628	\$77,008	\$184,410
TV-0063	Coles Bayou Marsh Restoration	\$2,453	\$2,628	\$127,618	\$132,699
	TOTAL CWPPRA O&M Expenditures	\$21,109,662	\$7,523,456	\$5,366,011	\$33,999,129
	Federal CWPPRA O&M Expenditures	\$17,943,212	\$6,394,937	\$4,561,110	\$28,899,259
	State CWPPRA O&M Expenditures	\$3,166,449	\$1,128,518	\$804,902	\$5,099,869

- 2. State share is based on CWPPRA cost share of 85% Federal/15% State except for PPL 5-6 projects, which have a 90% Federal/10% State cost share. 3. Projects that the USACE is responsible for O&M are indicated by (USACE) after the project number.

Notes:

1. Table shows all approved CWPPRA projects. Demonstration and vegetative planting projects are not shown as they have no O&M budgets. Other projects without O&M budgets have "None" entered in the budget columns. Projects not scheduled to complete within a given year have "Not Constructed" entered in the budget column(s).

Table B-10. O&M Projected Expenditures for CWPPRA Projects without Federal Cost Share

Project ID	Project Name	FY 2018	FY 2019	FY 2020	Project Total (FY 2018 - FY 2020)
TE-0020	Isles Dernieres Restoration East Island	\$3,650	\$3,650	\$3,650	\$10,950
TE-0024	Isles Dernieres Restoration Trinity Island	\$3,650	\$3,650	\$3,650	\$10,950
TE-0025	East Timbalier Island Sediment Restoration, Phase 1	\$3,650	\$3,650	\$3,650	\$10,950
TE-0027	Whiskey Island Restoration	\$3,650	\$3,650	\$3,650	\$10,950
TE-0030	East Timbalier Island Sediment Restoration, Phase 2	\$3,650	\$3,650	\$3,650	\$10,950
TE-0040	Timbalier Island Dune and Marsh Restoration	\$3,650	\$3,650	\$3,650	\$10,950
	Total Expenditures	\$21,900	\$21,900	\$21,900	\$65,700

Table B-11. Projected Expenditures for O&M of WRDA Projects

Project ID	Project Name	FY 2018	FY 2019	FY 2020	Project Total (FY 2018 - FY 2020)
BA-0001	Davis Pond Freshwater Diversion	\$1,002,467	\$1,072,601	\$1,155,902	\$3,230,970
BS-0008	Caernarvon Freshwater Diversion	\$452,086	\$483,694	\$483,694	\$1,419,474
	Total Expenditures	\$1,454,553	\$1,556,295	\$1,639,596	\$4,650,444
	Federal O&M Monitoring Expenditures	\$1,090,915	\$1,167,221	\$1,229,697	\$3,487,833
	State WRDA O&M Expenditures	\$363,638	\$389,074	\$409,899	\$1,162,611

Table B-12. Projected Expenditures for O&M of Other Projects

Project ID	Project Name	FY 2018	FY 2019	FY 2020	Project Total (FY 2018 - FY 2020)
Hurricane Pr	rotection Projects				
BA-0066	West Bank and Vicinity <sup>1</sup>	\$388,465	\$409,089	\$431,293	\$1,228,847
BA-0067	New Orleans and Vicinity <sup>1</sup>	\$627,646	\$654,829	\$626,698	\$1,909,172
LA-0154	FEMA LAMP	\$135,038	\$128,030	\$0	\$263,068
LA-0206	HSDRRS Armoring <sup>1</sup>	\$437,956	\$455,693	\$473,662	\$1,367,311
LA-0253	Flood Protection Inspections <sup>1</sup>	\$256.215	\$268.875	\$284.819	\$809.909
LA-0269	CPRA Letter of No Objection	\$514,269	\$539,983	\$566,982	\$1,621,234
LA-0271	O&M Division State Wide Levee Board Meetings	\$182,189	\$191,298	\$200,863	\$574,351
PO-0057	SELA- Overall <sup>1</sup>	\$289,765	\$376,253	\$260,374	\$926,393
PO-0060	Permanent Canal Closures and Pump Stations <sup>1</sup>	\$2,681,036	\$2,690,088	\$749,484	\$6,120,608
PO-0063	Lake Pontchartrain and Vicinity <sup>1</sup>	\$405,213	\$426,674	\$449,758	\$1,281,644
	i				
PO-0096	Flood Protection Assistance	\$2,701,395	\$2,743,964	\$2,827,162	\$8,272,521
BA-0109	pation Projects HSDRRS Mitigation - WBV	\$7.008	¢7,000	\$7.008	\$21.024
BA-0109 BA-0154		\$7,008	\$7,008 \$7,008	\$7,008	\$21,024 \$21,024
BA-0154	Previously Authorized Mitigation - WBV  New Orleans to Venice Mitigation - Plaguemines Non-	\$7,006	\$7,006	\$7,006	\$21,024
BA-0158	Federal	\$7.008	\$7.008	\$7.008	\$21,024
BA-0159	New Orleans to Venice Mitigation - Federal	\$7,008	\$7,008	\$7,008	\$21,024
PO-0038SF	MRGO Closure Structure <sup>1</sup>	\$82,400	\$61,960	\$61,960	\$206,320
PO-00363F	MRGO - Lake Borgne -Bayou Dupre Segment	\$8,184	\$8,184	\$8,184	\$206,320 \$24,552
PO-0093 PO-0094	MRGO - Lake Borgne -Bayou Bienvenue Segment	\$8,184	\$8,184	\$8,184	\$24,552 \$24,552
PO-0094	MRGO - Lake Borgne -Shell Beach Segment	\$8,184	\$8.184	\$8.184	\$24,552
PO-0093	HSDRRS Mitigation - LPV	\$0,104	\$39.343	\$39.343	\$78.686
PO-0145	LPV Task Force Guardian Mitigation - Bayou Sauvage	\$18,688	\$18,688	\$18,688	\$56,064
PO-0146	LPV Mitigation Project, Manchac WMA Marsh Creation	\$13,114	\$13.114	\$13,114	\$39.343
PO-0152	Lake Borgne and MRGO Shoreline Protection	\$8,184	\$8,184	\$8,184	\$24,552
State-Only P	9	ψ0,101	ψ0,101	ψ0,101	Ψ2 1,002
BA-0003	Naomi Siphon	\$11,680	\$26,680	\$12,180	\$50,540
BA-0004	West Point a la Hache Siphon	\$11,680	\$26,680	\$12,180	\$50,540
BA-0005	Fort Livingston	\$80,740	\$24,972	\$24,972	\$130,684
CS-0002	Rycade Canal	\$82.008	\$24,972	\$24,972	\$82.008
LA-0273	Gulf Coast Joint Venture and Partnerships	\$8,576	\$8,576	\$8,576	\$25,728
PO-0001	Violet Siphon	\$333.680	\$25.680	\$25.680	\$385.040
	·	, ,	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, ,,,,,,,	, , .
PO-0036	Orleans Landbridge	\$7,308	\$7,308	\$7,308	\$21,924
PO-0072	Biloxi Marsh	\$41,208	\$40,274	\$40,274	\$121,755
PO-0142	Hydrologic Restoration of the Amite River Diversion Canal	\$13,114	\$13,114	\$13,114	\$39,343
PO-0148	Living Shoreline	\$34,926	\$52,521	\$56,673	\$144,120
TE-0003	Bayou LaCache Wetlands	\$105,840	\$105,840	\$105,840	\$317,520
TV-xx	Quintana Canal	\$12,453	\$2,037,423	\$12,803	\$2,062,679
TV-0013-B	Avery Canal	\$84,906	\$12,628	\$12,803	\$110,337
N/A	Maintenance Surveys	\$33,288	\$33,288	\$33,288	\$99,864
N/A	GPS Network (continued development and maintenance)	\$72,336	\$72,336	\$72,336	\$217,008
	Total Expenditures	\$9,727,901	\$11,565,970	\$7,502,996	\$28,796,867
	Surplus Expenditures	\$6,194,600	\$6.352.720	\$4,566,000	\$17,113,320
	Trust Fund Expenditures	\$3,533,301	\$5,213,250	\$2,936,996	\$11,683,547

#### Notes:

<sup>1-</sup> Expenditures funded with Surplus funds (see Table B-5).

Table B-13. Oil Spill Projected Expenditures<sup>1</sup>

Project ID	Project Name	FY 2018	FY 2019	FY 2020	Project Total (FY 2018 - FY 2020)
Deepwater H	orizon NRDA <sup>2</sup>				
BA-0111	Shell Island West- NRDA	\$1,000,000	\$250,000	\$250,000	\$1,500,000
BA-0202	Queen Bess Island Restoration	\$1,500,000	\$5,375,000	\$13,125,000	\$20,000,000
BA-0203	Barataria Basin Ridge and Marsh Restoration- Spanish Pass Increment	\$2,250,000	\$1,350,000	\$30,900,000	\$34,500,000
CS-0080	Rabbit Island Restoration	\$2,000,000	\$1,000,000	\$24,000,000	\$27,000,000
PO-0180	Lake Borgne Marsh Creation- Increment 1	\$3,000,000	\$2,000,000	\$32,000,000	\$37,000,000
TE-0100	NRDA Caillou Lake Headlands	\$103,176,805	\$0	\$0	\$103,176,805
TE-0139	Terrebonne Basin Ridge and Marsh Creation- Bayou Terrebonne Increment	\$1,500,000	\$900,000	\$30,600,000	\$33,000,000
N/A	Provide and Enhance Recreational Opportunities	\$11,000,000	\$11,000,000	\$0	\$22,000,000
N/A	NRDA Restoration Planning	\$2,152,520	\$2,204,066	\$2,258,187	\$6,614,773
N/A	Regionwide Trustee Implementation Group	\$1,000,000	\$1,000,000	\$1,000,000	\$3,000,000
N/A	NRDA Adaptive Management	\$12,241,166	\$13,861,856	\$16,722,054	\$42,825,075
Total Deepwa	ater Horizon NRDA Expenditures	\$140,820,491	\$38,940,922	\$150,855,241	\$330,616,653
NFWF Project					
BA-0143	Caminada Headland Beach and Dune Restoration Increment 2	\$785,250	\$656,500	\$268,000	\$1,709,750
BA-0153	Mid-Barataria Sediment Diversion	\$17,214,663	\$29,165,417	\$388,490,535	\$434,870,615
BS-0030	Mid-Breton Sediment Diversion	\$9,919,723	\$16,035,977	\$13,664,335	\$39,620,036
LA-0276	Sediment Diversion Management	\$2,740,359	\$2,835,611	\$3,382,998	\$8,958,967
TE-0110	Increase Atchafalaya Flow to Eastern Terrebonne	\$15,000,000	\$10,000,000	\$5,000,000	\$30,000,000
TE-0118	East Timbalier Island	\$1,100,000	\$1,100,000	\$103,385,000	\$105,585,000
N/A	NFWF Adaptive Management	\$7,650,300	\$6,033,722	\$5,048,422	\$18,732,444
Total NFWF I	Expenditures	\$54,410,295	\$65,827,227	\$519,239,290	\$639,476,812
Proposed RE	STORE Projects				
BA-0197	West Grand Terre Beach Nourishment and Stabilization	\$4,000,000	\$2,659,216	\$25,000,000	\$31,659,216
CS-0065	Calcasieu Ship Channel Salinity Control Measures	\$14,000,000	\$16,400,000	\$30,200,000	\$60,600,000
PO-0029	Mississippi River Reintroduction into Maurepas Swamp	\$4,730,000	\$4,730,000	\$4,730,000	\$14,190,000
PO-0163	Golden Triangle Marsh Creation <sup>3</sup>	\$3,600,000	\$1,300,000	\$1,000,000	\$5,900,000
PO-0174	Biloxi Marsh Living Shoreline	\$1,700,000	\$1,200,000	\$7,712,500	\$10,612,500
TE-0113	Houma Navigation Canal Lock Complex 4	\$10,000,000	\$9,000,000	\$50,000,000	\$69,000,000
N/A	Lower Mississippi River Management	\$1,600,000	\$1,600,000	\$1,600,000	\$4,800,000
N/A	Adaptive Management	\$10,040,000	\$9,517,421	\$11,755,675	\$31,313,096
N/A	Parish Matching Program <sup>5</sup>	\$20,000,000	TBD	TBD	\$20,000,000
N/A	RESTORE Center of Excellence	\$1,648,000	\$1,800,000	\$800,000	\$4,248,000
Total RESTO	RE Expenditures	\$71,318,000	\$48,206,637	\$132,798,175	\$252,322,812
Total Oil Spil	I Expenditures	\$266,548,786	\$152,974,785	\$802,892,706	\$1,222,416,277
GOMESA Oil	Spill Expenditures	(\$1,600,000)	\$0	\$0	(\$1,600,000)
	Spill Expenditures	(\$8,000,000)	\$0	\$0	(\$8,000,000)
State Oil Spil	Il Expenditures	\$256,948,786	\$152,974,785	\$802,892,706	\$1,212,816,277

- Notes:

  1- Red font denotes projected expenditures for which funding has not yet been procured.

  2- Projects may be initiated with Trust Fund revenue if available to be reimbursed with oil spill revenues.

  3- Project funding includes \$1.6 million in GOMESA funding for landrights tasks.

  4- Project partially funded with surplus funds (see Table B-5).

  5- Expenditures represent potential matching funds for project implementation to eligible parishes identified in 33 U.S.C. §1321(t)(1)(D)(II) provided that the project constitutes an eligible activity under 31 C.F.R. §§ 34.201 and 34.203 and meets the purposes identified in La. R.S. 49:214.5.4(G) & (I).

#### Appendix C Barrier Island Status Report

#### BARRIER ISLAND STATUS REPORT Fiscal Year 2018 Annual Plan

In compliance with Act 297 of the 2006 Regular Legislative Session, the Coastal Protection and Restoration Authority (CPRA) provides this barrier island status report as part of the Annual Plan document, which will be submitted to each member of the Louisiana Legislature. The current Barrier Island Status report is available electronically at the CPRA website. Please visit <a href="https://www.coastal.LA.gov">www.coastal.LA.gov</a> to download and review the full report. A summary of the report is provided below.

#### CONSTRUCTED PROJECTS

The coastlines of the modern Mississippi River delta plain are bordered by numerous barrier islands from Raccoon Island in the west to Hewes Point in the northern Chandeleur Islands (Figure 1). These barrier islands could be grouped to represent fragmented remnants of distal extremities of several major delta lobes and headlands: to identify these barrier islands with their respective delta lobes they have been grouped from west to east as the Early Lafourche Delta System, Late Lafourche Delta System, Modern Delta System, and the St. Bernard Delta System. The back-barrier lagoons are connected to the Gulf of Mexico by approximately 25 tidal inlets which separate these barrier islands from each other and allow the exchange of diurnal tides.

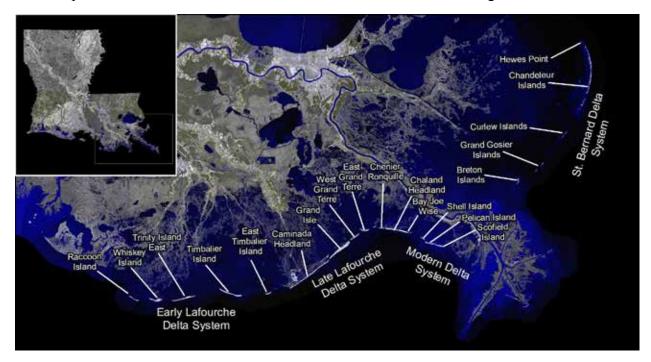


Figure 1. Location of barrier islands and Barrier Island Delta Systems in Louisiana

The restoration of Louisiana's barrier islands and barrier island systems has been a priority for a number of restoration programs over the past several decades and 37 barrier island projects have been constructed to date (including 12 in the Early Lafourche Delta System, 16 in the Late

Lafourche Delta System, 7 in the Modern Delta System, and 2 in the St. Bernard Delta System: see Table 1). Most of these constructed barrier island projects have been monitored, and their performance has been assessed to adaptively improve resilience and persistence of these projects and future barrier island projects.

With several major restoration projects in place, the post-restoration estimated Year of Disappearance (YOD) for several barrier island systems in Louisiana have been extended from years to decades. This increase in island longevity throughout the system is a direct benefit of the restoration projects. Further, with the increase in both frequency and intensity of major hurricanes over the past decade (and similar projections into the future), in the absence of the restoration and protection program, it is expected many of these islands would have disappeared much sooner than original projections.

#### MONITORING AND MAINTENANCE

Louisiana's barrier islands are part of a complex system controlled by many overlapping and interrelated processes. The four primary barrier island systems have been monitored and evaluated by recent efforts, such as the Barrier Island Comprehensive Monitoring (BICM) program, the monitoring of the Emergency Berms, and project specific efforts. These programs have provided information to the CPRA regarding the current condition and stability of Louisiana's barrier islands. To minimize the acceleration of island disintegration that commonly occurs after a breach, a barrier island Breach Management Program is currently being developed to address both breach prevention and response to breaches when they occur. This program will considerably improve the state's ability to repair storm-induced damages and extend the lifeexpectancy and integrity of Louisiana's barrier shorelines. Finally, to ensure the efficient and effective use of limited sediment resources in Louisiana, a number of programs/projects, including Borrow Area Monitoring and Maintenance (BAMM) and the Louisiana Sand Resources Database (LASARD), have been initiated under the overarching umbrella of the Louisiana Sediment Management Plan (LASMP). In order to monitor the impact of loading of sand to build beach and dune and restore the barrier islands/headlands, a CIAP-funded Caminada Moreau Subsidence Study (CMSS) was undertaken.

A final report entitled "Louisiana Barrier Island Comprehensive Monitoring (BICM) Program Summary Report: Data and Analyses 2006 through 2010: U.S. Geological Survey Open-File Report 2013–1083" was published as a USGS open file and can be accessed online at http://cims.coastal.la.gov/DocLibrary/DocumentSearch.aspx?Root=0&Folder=0 (Kindinger et al 2013). The BICM program used both historical and newly acquired (2006 - 2010) data to assess and monitor changes in the aerial and subaqueous extent of islands, habitat types, sediment texture and geotechnical properties, environmental processes, and vegetation composition. BICM datasets included aerial still and video photography (multiple time series) for shoreline assessment, shoreline position, habitat mapping, and land loss from CIR aerial photography light detection and ranging (lidar) surveys for topographic elevations; single-beam and swath bathymetry; and sediment grab samples. The BICM program has begun a new data collection cycle in 2015 with plans to complete analysis and reporting in 2019.

#### BARRIER ISLAND PERFORMANCE ASSESSMENT

Louisiana's barrier shoreline is one of the fastest eroding shorelines in the world. Due to the geologic setting and the predicted changes in sea level during coming decades, these shoreline habitats and the services they provide are some of the most vulnerable features of our coastal landscape. Barrier island stability is affected by a number of factors, including settlement, overwash, offshore loss of sediment, longshore transport, and island breaching. Each of these factors is discussed in the context of recent high-frequency data collection.

Shoreline erosion data from BICM indicate that most of Louisiana's shoreline is eroding faster than ever before with some short-term (1996 – 2005) erosion rates more than double the historic (1890s – 2005) averages. However, recent information from the post-BICM studies elucidates the benefits of recent restoration projects. The full report includes a presentation of the overall findings from BICM and detailed discussion of recent shoreline change rates by geomorphologic delta complex. Additionally, the BICM program is currently updating shoreline change rates for the entire coast thru 2012, with plans to develop 2015 data.

#### MINIMIZED DESIGN TEMPLATE

The minimized design template is defined as a design template with minimal barrier island dimensions that restores the barrier shoreline's geomorphic form and ecologic function and retains this form and function after being subjected to the design storm events.

A minimized design template was previously developed for the Terrebonne Basin barrier shorelines extending from East Timbalier Island to Raccoon Island as part of the Louisiana Coastal Area program for the Terrebonne Basin Barrier Shoreline Restoration Project (TBBSR). Efforts related to modeling for 2017 Master Plan project evaluations have led to development of a minimal design template for the coast. Future efforts related to regional project evaluation and prioritizations can utilize this minimal design, allowing valid comparisons and prioritization areas along the coast using an un-biased approach. Table 7 in the full report presents the dimensions of the minimized restoration templates.

#### **FUTURE PLANS**

Future plans for Louisiana's barrier islands include additional projects, continuation of system wide barrier island monitoring via BICM, continued improvements in borrow area management, management of relevant sediment, geophysical, and ecological data, and improved overall understanding of sediment budgets and sediment management requirements to support the needs of the Coastal Master Plans barrier shoreline projects and better prioritize Louisiana's barrier shoreline efforts.

Table 1. List of constructed and pending barrier island projects in Louisiana

	Funding	Construction
Barrier Shoreline Restoration Projects	Program	Date
Early Lafourche Barrier System		
Constructed Projects	Vaniana	1004
Raccoon Island Repair (TE-0106)  Barrier Island Sand Retention (TE-0004b)	Various FEM A	1994 1995
Raccoon Island Breakwaters (TE-0029)	CWPPRA	1997
Raccoon Island Shoreline Protection/ Marsh Creation (TE-0048)	CWPPRA	2007, 2013
Whiskey Island Restoration (TE-0027)	CWPPRA	1999
Whiskey Island Back Barrier Marsh Creation (TE-0050)	CWPPRA	2009
Enhancement of Barrier Island and Salt Marsh Vegetation DEMO (TE-0053)	CWPPRA	2012
Isles Dernieres Restoration Trinity Island (TE-0024)	CWPPRA	1999
New Cut Dune and Marsh Restoration (TE-0037)	CWPPRA	2007
Isles Dernieres Restoration East Island (TE-0020)	CWPPRA	1999
BIMP 2009 Sand Fencing (LA-0246)	STATE	2009
Wine Island Revegetation Project Funded for Construction	FEM A	1995
NRDA Caillou Lake Headlands (TE-0100) (under construction)		
(includes Ship Shoal: Whiskey West Flank Restoration (TE-0047))	NRDA	TBD
Future Projects		
None		
	Funding	Constructio
Barrier Shoreline Restoration Projects	Program	Date
ate Lafourche Barrier System		
Constructed Projects		
Barrier Island Sand Retention (TE-0004b)	FEMA	1995
Timbalier Island Planting Demonstration (TE-18)	CWPPRA	1996
Timbalier Island Dune and Marsh Creation (TE-40)	CWPPRA	2004
BIMP 2009 Sand Fencing (LA-0246)	STATE CWPPRA	2009
East Timbalier Island Sediment Restoration, Phase 1 (TE-25) East Timbalier Island Sediment Restoration, Phase 2 (TE-30)	CWPPRA	2000 2000
West Belle Pass Barrier Headland Restoration (TE-52)	CWPPRA	2012
west Bene i ass Barrer freatiand Restoration (112-32)	CIAP/	2012
Caminada Headland Beach and Dune Restoration (BA-45)	STATE	2015
Grand Isle Bay Side Breakwaters (BA-0187)	STATE	2015
Fifi Island Restoration (BA-0155)	CIAP	2015
Fifi Island Breakwater (BA-0168)	CIAP	2015
Grand Isle and Vicinity Hurricane Protection	WRDA	2010
Vegetative Planting of a Dredged Material Disposal Site on Grand Terre (BA-28)	CWPPRA	2001
Restoration on West Grand Terre Island at Fort Livingston (BA-0186)	NOAA	2003
East Grand Terre Island Restoration (BA-30)	CIAP	2010
NRDA Caminada Headland Beach and Dune Restoration, Increment 2 (BA-143)	NFWF	2016
Funded for Construction		
None		
Future Projects		
Barataria Basin Barrier Shoreline (BBBS) Restoration (BA-10)		
Eastern portion of Caminada	LCA	TBD
East Timbalier Island (TE-0118) (in design)	NFWF	TBD
West Grand Terre Beach Nourishment and Stabilization Project (in design)  Caminada Back Barrier Marsh Creation (BA-0171) (in design)	RESTORE CWPPRA	TBD TBD
Caminada Back Barrier Marsh Creation (BA-0171) (in design)  Caminada Back Barrier Marsh Creation Increment 2 (BA-0193) (in design)	CWPPRA	TBD
Caminada Sacri Sarrior Material Interested 2 (S. 1 0175) (in design)	Funding	Constructio
Barrier Shoreline Restoration Projects	Program	Date
Modern Barrier System		
Constructed Projects		
Pass La Mer to Chaland Pass (BA-38, part 1)		
also known as "Chaland Headland"	CWPPRA	2007
BIMP 2009 Sand Fencing (LA-0246)	STATE	2009
Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration (BA-35)	CHIPPE :	2000
also known as "Bay Joe Wise"  Barataria Barrier Island Complex Project: Pelican Island and Pass (BA-38, part 2)	CWPPRA	2009
Emergency Berms W8, W9, W10	CWPPRA	2012
Lineigency DCIIIS WO, W7, W10	Berm Funds CWPPRA/	2010-2011
Riverine Sand Mining/Scofield Island Restoration (BA-40)	Berm Funds	2013
Shell Island Restoration East Berm (BA-110)	Berm Funds	2013
Funded for Construction		
	NRDA	TBD
Chenier Ronquile Barrier Island Restoration (BA-76) (under construction)	NRDA	TBD
Chenier Ronquile Barrier Island Restoration (BA-76) (under construction)  Shell Island Restoration West NRDA (BA-111) (under construction)		
Shell Island Restoration West NRDA (BA-111) (under construction)  Future Projects		TDD
Shell Island Restoration West NRDA (BA-111) (under construction)	LCA	TBD
Shell Island Restoration West NRDA (BA-111) (under construction)  Tuture Projects	LCA Funding	
Shell Island Restoration West NRDA (BA-111) (under construction)  Future Projects  BBBS Restoration (BA-10)  Barrier Shoreline Restoration Projects	_	Construction Date
Shell Island Restoration West NRDA (BA-111) (under construction)  "uture Projects  BBBS Restoration (BA-10)  Barrier Shoreline Restoration Projects  8t. Bernard Delta System	Funding	Construction
Shell Island Restoration West NRDA (BA-111) (under construction)  The Projects  BBBS Restoration (BA-10)  Barrier Shoreline Restoration Projects  It. Bernard Delta System  Constructed Projects	Funding Program	Construction Date
Shell Island Restoration West NRDA (BA-111) (under construction)  Future Projects  BBBS Restoration (BA-10)  Barrier Shoreline Restoration Projects  St. Bernard Delta System  Constructed Projects  Chandeleur Islands Marsh Restoration (PO-27)	Funding Program  CWPPRA	Date 2001
Shell Island Restoration West NRDA (BA-111) (under construction)  Future Projects  BBBS Restoration (BA-10)  Barrier Shoreline Restoration Projects  St. Bernard Delta System  Constructed Projects  Chandeleur Islands Marsh Restoration (PO-27)  Emergency Berms E4	Funding Program	Construction Date
Shell Island Restoration West NRDA (BA-111) (under construction)  Tuture Projects BBBS Restoration (BA-10)  Barrier Shoreline Restoration Projects St. Bernard Delta System Constructed Projects Chandeleur Islands Marsh Restoration (PO-27) Emergency Berms E4  Tunded for Construction	Funding Program  CWPPRA  Berm Funds	Construction Date  2001 2010
Shell Island Restoration West NRDA (BA-111) (under construction)  Tuture Projects  BBBS Restoration (BA-10)  Barrier Shoreline Restoration Projects  It. Bernard Delta System  Constructed Projects  Chandeleur Islands Marsh Restoration (PO-27)  Emergency Berms E4	Funding Program  CWPPRA	Date 2001

## Appendix D Caernarvon & Davis Pond Operational Plans for 2017

Available Online (www.coastal.la.gov)



#### Appendix E Inventory of Non-State Projects

#### A. Parish CIAP Projects

Planning Unit	-	-	-	-	-	1	1	-	-	-	-	-
Collision Coll	The project proposes to dredge a waterway through Lake Lery historically used for navigation. The waterway is located approximately along the St. Bernard and Plaquenmers Parish ine. The project will utilize the dredged material and borrow areas in Lake Lery to create marsh in the open water areas north and east of the lake. It will also re-establish the lake rim by armoring the northern and eastern shoreline of Lake Lery using a rock dike.	The project location is within Livingston Parish, in the Maurepas Swamp of southeast Louisann. The project area includes 2,590.4 contiguous acres of coastal weelland forest, specifically hald cypress-tupelo swamp, with roughly 200 acres fronting the western edge of Lake Maurepas.	The Amite River is located southwest of Lake Maurepus and east of 1-10. The objective of this project is to allow floodwaters to introduce additional fresh water, nutrients, and sediment into the western Maurepus Swamp. The exchange of flow would owcur during lood events on the river and form runoff of localized rainfall events, and would in turn provide nutrients and sediment to facilitate oganic sediment deposition in the swamp, some fluctuation of water levels, improve biological productivity, and prevent further swamp deterioration.	Funds will be used so that the St. Bernard Parish Coastal Zone Management Plan may be updated.	This project involves the continuation of the rock shoreline protection project on the south shore of Lake Pontchartrain in St. Charles Parish. The project will consist of insalling approximately 2,150 linear feet of rock dike on the existing shoreline and the construction of a 130-foot-long timber pile bridge at the mouth of Bayou Labranche.	This project involves the continuation of rock shoreline protection project on the south shore of Lake Pontchartrain in St. Charles Parish. The project will consist of installing approximately 15,300 linear feet of rock dike.	This project will construct a wetland assimilation treatment plant which will collect wastewater from secondary treatment modules in Grand Point, Louisiana. It will pump the wastewater to the pond area that will discharge into seven acres of forested wetland areas that will directly affect 2,400 acres of wetlands.	The proposed project will consist of approximately 1,400 linear feet of shoreline protection extending in an easterly and westerly direction in St. John the Baptist Parish, where the Reserve Relieve Canal enters Lake Maurepas and entrance protection lining. The proposed feature consists of a foreshore rock dike with gaps for fish and public access to the lake shoreline.	This project includes the acquisition of a 27.2 acre parcel to preserve a sensitive wetland composed of pristine express swamp and bottomland hardwoods from future commercial or residential development. It is located between Bayou Lacombe and the Tammany Trace linear park south of U.S. 190 in Lacombe, Louisiana within the Bayou Lacombe watershed.	This project includes the acquisition of a 40 acre parcel composed of pine trees and mixed hardwoods with inclusion savannas, which lies between the I-12 Service Road and Bayou Liberty in Slidell, Louisiana. This project is to educate the public about the value of wetlands. Invasive plant species will be removed and nest boxes will be installed.	This project will include an upgrade of the existing wastewater treatment plant and construction of a discharge structure and piping system for wetland assimilation. It will construct 2.5 miles of force main for disbursement of treated effluent into 1.7 square miles of uninhabited wetland adjacent to the western border of the City of Mandeville.	The project is located in Tragipahoa Parish between Pass Manchac and the mouth of the Trangipahoa River. The goal of the proposed project is to construct approximately 12,000 linear feet of foreshore protection.
	\$8,188,293	\$2,774,290	\$2,594,680	N/A	\$3,600,000	\$930,917	\$1,600,000	\$1,730,042	\$1,345,000	\$1,718,150	\$3,734,879	\$5,882,716
* 1000 411 11 11 11 11 11 11 11 11 11 11 11 11	\$497,417	\$260,443	\$863,185	\$200,000	N/A	N/A	N/A	\$283,015	N/A	N/A	N/A	\$699,400
GOISIGIA STREET	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dallaliad Salas	Pending	2011	Pending	N/A	Pending	Pending	Pending	Pending	2011	2009	2010	Pending
(S.I.R.)	300	1,762	6,458	N/A	N/A	N/A	2,400	N/A	27	40	N/A	N/A
13148/17/38/1047	StB.	Liv.	Liv.	StB.	StC.	StC.	StJa.	Stlo.	StT.	StT.	StT.	Tang.
SI SINS TO STATE S	103	88	88	103	99	99	57	57	06	06	68	73
to State Section Secti	-	18	18	-	19	19	18	19	=	Ξ	Ξ	9
AREA NOSIGNA	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS
	и мс	LA	HR	PL.	SP	SP	MM	SP	ΓA	LA	MM	SP
**************************************	Lake Lery Rim Re- Establishment and Marsh Creation	Bald Cypress/Tupelo Coastal Forest Protection	Hydrologic Restoration in the West Lake Maurepas Swamps	Update of St. Bernard Parish Coastal Zone Management Plan	West LaBranche Shoreline Protection	East LaBranche Shoreline Protection	East Bank Wastewater Assimilation Plant	Reserve Relief Canal Shoreline Protection Project	Green Property Preservation Project	French Property Preservation Project	Mandeville Aquatic Ecosystem Restoration Project	Lake Pontchartrain Shoreline Protection
Sta alaris	BS-17	PO-39	PO-40	PO-41	PO-42	PO-43	PO-45	PO-46	PO-48	PO-49	PO-51	PO-52
Ргодгат	CIVb	CIVB	CIVb	CIVb	CIVb	CIAP	CIVb	CIVb	CIVb	CIVb	CIVb	CIVB

Planning Unit	-	-	-	2	2	2	7	2	2	2
Project Summary	The study will develop a plan to allow wetland assimilation to provide tertiary treatment to wasterwater while improving wetland quality. The study will analyze potential sites and earl project goals. The final troop will provide perliammary characterizations of the parishs wetland systems, their suitability for wastewater assimilation, an analysis of the wetlands's loading and assimilation capacities, and capabilities of the wetlands and preliminary engineering and cost analyses.	This project is located in the Pontchartrain Basin in St. Tammany Parish. Project features include approximately 600 acres of marsh creation via hydraulic dredging and placement of 2 million cubic yards of material. The likely borrow location is Lake Pontchartrain, the Highway IL Canal, and Bayou Bondious and associated cannals. The objectives of this project are to create approximately 600 acres of intermediate marsh, reduce erosion of adjacent interior marshes, and maintain and support the integrity of the Lake Pontchartrain shoreline.	The project would construct a waterline booster pump along LA Highway 44 in Convent, Louisiama in St. James Parish. The construction includes housing a 40 hp motor with a 1,100 gallon/minutu high-service pump and comercing to the existing 10 inch PVC waterline at two locations in order to establish a loop and by-pass system. The station will have a metal building with a concrete floor to enclose the pump and electrical equipment.	The project is located in Jefferson Parish, Louisiana, along the bay side of Grand Isle, Louisiana. The purpose of this project is to reduce erosion on the bay side of Grand Isle. Twenty-four 300 foot breakwaters (approximately 1.5 miles) will be constructed on the back-bay side of Grand Isle.	This project located in Lafitte, Jefferson Parish Louisiana, will improve shoreline protection by creating over 8,000 linear feet of additional shoreline through the use sediment from the Mississippi River, and vegetative planting, along the west side of Goose Bayou. This project will help establish a wetland ridge which will function as habitat for native species of plants and animals.	This project located within Laffite, Louisiana will help protect the integrity of wetlands within the Barataria Basin and reduce saltwater intrusion and deterioration of interior marsh. Over 10,600 linear feet of foreshore rock revenment will be constructed, along with a water control structure in order to protect the interior marshes.	Distributary ridges and chenier ridges along the coast of Louisiana are disappearing at an alarming rate. Projects such as these help establish ridge habitats and associated wetlands which are extremely important for millions of migrating Neotropical songbirds that cross the Gulf or Mexico, in addition to providing wetland habitat for coastal plant and animal species.	This project, located in Lafourche Parish, will use dedicated dredge material to create 30-40 acres of wetlands in interior open water bodies (enhancing 70-100 acres of marsh) and plant 2 rows of smooth cordgrass along approx. 7,500 linear feet of the lake shoreline.	Funds will be allocated to the Parish so that they may update their coastal management plan.	Tidewater Road is subject to heavy inundation from directional winds that elevate tides over the roadway. Wetland loss in the area is severe, and along much of Tidewater Road's length there is open water in causts and ponds that about the road shoulder. Tidewater Road is an important access point for the oil and gas industry. This project also proposes to create flood protection along the entire length of Tidewater Road.
	N/A	\$1,860,558	\$265,100	\$2,989,653	N/A	\$7,642,385	N/A	\$2,209,910	N/A	\$3,364,310
* 180.3 11 11 11 11 11 11 11 11 11 11 11 11 11	\$49,994	N/A	N/A	\$307,709	\$165,935	\$387,986	\$700,000	\$222,430	\$300,000	N/A
ROBSIGINOS DE GOODS	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pallalide Say	2009	Pending	2011	2012	2011	Pending	N/A	2011	N/A	2010
18 Table	N/A	009	N/A	N/A	1,200	N/A	09	100	N/A	N/A
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Dilasto attus	88	06	28	105	105	105	84	54	105	105
TORTOUS TORIO	18	П	18	8	8	&	20	20	1	-
Park I Joseph	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS
	F	MC	ĮŽ	SP	PL	SP	VP	DM MC VP	PL.	INF
All States Associated the States Associated	Wetland Wastewater Assimilation Process Planning	Northshore Beach Marsh Creation/Restoration	Waterline Booster Pump Station, East Bank	Bayside Segmented Breakwaters at Grand Isle	Goose Bayou Ridge Creation and Shoreline Protection	Lower Lafftte Shoreline Stabilization at Bayou Rigolettes	Maritime Forest Ridge Restoration	Northwest Little Lake Marsh Creation and Enhancement	Update of the Plaquemines Parish Coastal Management Plan	Tidewater Road Flood Protection
Jan State States	PO-53	PO-70	PO-71	BA-50	BA-51	BA-52	BA-53	BA-54	BA-56	BA-57
Ргодгат	CIVb	CIVb	CIVb	CI∀b	CIVb	CIVb	CIVb	CIVb	CIVb	CIVb

Planning Unit	7	2	2	2	71	2	7	2	4	4
Project Summary	This project would construct a waterline booster pump station in Welcome, Louisiana. The proposed site is located near Section 43, T-11-S, R-3-E, along LA Highway 18. The proposed construction includes the installation of a 40 th electric motor with a 1, 100 gpm high-service pump. The booster pump will be built along the existing waterline and be tied in at two places in order to establish a loop and by-pass system with 10-inch in-line valves. The station will a have metab building with a concrete floor to fully enclose and protect the pump and electrical equipment.	The St. James Parish Council would like to purchase several large tracts of existing wetlands to prohibit the destruction of, and aid in the protection of, the parish's coastal wetland areas. This project proposes to purchase approximately 235 acres of existing wetlands from the Bayou Chevreuil Land Co., LLC.	The St. James Parish Council plans to construct a wetland assimilation treatment plant on property owned by the Parish Council in Vacherie, Louisiana. The plant will collect wastewater from secondary treatment modules and pump the wastewater to a sediment pond area. The mire acre pond will discharge into 2,400 acres of forested wetland areas that will directly affect the swamp's composition and structure.	This program involves the use of a small dredge to hydraulically dredge borrow canals and other open water areas to restore approximately 175 acres of marsh apron along levees, chemiers and roadways in Lafourche Parish.	The proposed project is located in the Venice area of Plaquemines Parish, and more specifically in the Jump Basin Marina and along the west side of Tidewater Road. The proposed project would use material dredged from the marina to create massio on the west side of Tidewater Road. Based on preliminary surveys, it predicted that approximately 65,000 cubic yards of material could be dredged from the marina. Based on water depths in the target area, an initial estimate of 4 to 7 acres of marsh could be created.	The project is located at the eastern tip of Fifi Island, adjacent to Bayou Rigaud, on the northern side of Grand Isle. The project would provide approximately 2,200 linear feet of rock dike protection and create approximately 6 acres of marsh. Additionally, the project will provide protection to the bay side of Grand Isle.	The St. James Parish Council will install 24 inch plastic pipe through existing spoil banks and earthen berms to allow water exchange through these man-made barriers. The culvert installations will allow present ingress and egress into these areas to continue and enhance the water quality and nutrient exchange in the project area. It is estimated that approximately 100 sites would each need three sets of culverts to be installed along this 20 mile stretch of canal.	The proposed project will consist of 7.535 feet of shoreline protection, extending from "Pleasure Bend" westward to Pointe Aux Herbes, along the western shore of Lac des Allemands, St. John the Baptist Parish, Louisiana. The proposed feature consists of foreshore rock dike with gaps for fish and public access to the lake shoreline.	This is a two phase project that is located on the south side of the Gulf Intracostal Waterway at LA Highway 27 south. The goal of the project is to restore the existing rock shoreline protection and stabilization for approximately 1,000 feet by placing cellular concrete block revement along the existing shoreline.	This project features include the relocation of two existing water control structures (48 inch culverts) that are currently not functioning as designed; the installation of a new water control structure (two 36 inch culverts); and the refurbishment of three miles of adjacent levees.
** 160 160 160 160 160 160 160 160 160 160	\$256,700	\$718,620	\$1,757,026	\$2,789,031	8800,000	\$2,338,605	989'06\$	\$3,313,183	\$1,000,000	\$525,459
45.5 Alle Haller	N/A	V/N	N/A	\$160,250	N/A	\$208,251	N/A	\$507,369	V/N	\$83,074
aonaldino di	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Politika Solov	2009	2010	Pending	2010	Pending	Pending	Pending	Pending	Pending	Pending
(SIA)	N/A	235	2,400	175	۲	9	N/A	N/A	3	2,500
Sinsit Stron	StJa.	StJa.	StJa.	Laf.	Plaq.	Jef.	StJa.	StJo.	Cal.	Cal.
OH OH	88	28	58	54	105	105	88	28	36	36
tostodis (Sales) A	8	18	18	20	-	8	18	18	27	30
Star radiate	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS
	INF	ΓA	MM	DM	MC	BI	ΓA	SP	SP	SP
Aller State of the	Waterline Booster Pump Station, West Bank	West Bank Wetland Conservation and Protection	West Bank Wastewater Assimilation Plant	Small Dredge Program	Jump Basin Dredging and Marsh Creation	Fifi Island Restoration Extension	Culvert Installation Through Existing Berms and Board Roads	West Lac Des Allemands Shoreline Protection	Shoreline Protection at Intracoastal Park	South GIWW Restoration
Odd alles	BA-59	BA-61	BA-62	BA-63	BA-64	BA-65	NA	PO-90	CS-36	CS-37
Program	CIVb	CIVb	CIVb	CIVb	CIVb	CIVb	CIVb	CIVb	CIVb	CIVb

Planning Unit	4	4	4	4	4	4	4	4	4	4
Planni			- p							
Collision Coll	The project is a 1,200 acre marsh restoration/protection project located in Caleasieu Parish. Louisiama, approximately 3.0 miles northwest of Hackberry. This project proposes four different components. I. Two water controls structures; 2. Four miles of rave levee construction; 3. Repair of I mile of existing levee on the eastern and western boundaries; and 4. Placement of approximately four miles of rip mp rock dike along the Gulf Intracoastal Waterway (GIWW).	This proposal refers to the Chenier Plain portion of Coast 2050, Region 4, Johnson's Bayou Rôdge mapping unit. The project features include the replacement of existing water control structures (two 24 inch culverts) that are currently not functioning as designed, and the refurbishment of one mile of adjacent levees.	This project features include: 1) the rephoement of one existing 24 inch water control structure that is currently not functioning due to storm impacts and 2) the refutbsohment of approximately 4,000 linear feet of adjacent flevees. The new structures will reduce saltwarter intusion into the project tarea and restore historic salinity and hydrologic regimes. Without this project the 600-acre intermediate an brackish marsh will experience extensive interior marsh loss.	The project is located in the Calcusieu-Sabine Basin, in the West Cove of Calcusie Lake. The goal of the project is to restore approximately 200 acres of pelican nesting and marsh habitat to Rabbit Island by adding sediment, through the beneficial use of sediment deedged from the Calcusieu Ship Channel, and 2,500 linear feet of small limestone shoreline protection to the west corner of Rabbit Island.	This project will provide the engineering and design in order to continue the construction of approximately two miles of inp-rap dike from Dugas Landing to Kelso Bayou and reclaim eroded channel bank utilizing spoil material from dredging activities when more funding becomes available to the parish.	This project is located along Little Pecan Bayou in the south central portion of Cameron Parish. Project features include the installation of one bulkhead with four 48 inch water control structures at the location of an existing plug. The objective of the proposed project is to repair the water control structures so that pre-Hurricane Rita salimity and water levels can be restored to approximately 1,500 acres of marsh.	This project is located on the east end of Little Chenier Road and south of the Big Burn Marsh. Approximately 2,700 linear feet of roadway needs to be raised approximately two feet to an elevation of +4 feet NAVD, to prevent excessive flooding south of the Little Chenier Road by stopping water from overtopping the croad during almormally heavy rain events and flooding the marshes south of Little Chenier Road.	The project is located north of the Gulf Intracoastal Waterway (GIWW) approximately 10 miles northwest of Hackberry in Caleasteu Parish, Louisiana. Th goal of this project is to extend the rock armored shoreline stabilization by one mil adjacent to the GIWW to prevent continued erosion of the GIWW levee and to prevent the encroachment of the GIWW into the marshes north.	This proposal refers to the Chenier Plain portion of Coast 2050, Region 4, Big Burn mapping unit. Project features include the replacement of one existing water control structure (three 8-foot bays) that is currently not functioning as designed.	This proposal refers to the Chenier Plain portion of Coast 2050, Region 4, Little Peean mapping unit. Project features include the replacement of three existing water control structures (three 4 inch culverts) that are currently not functioning as designed, one new water control structure (that includes three 48 inch culverts), and the refurbishment of portions of three miles of existing levees (adding in some locations 2 feet of material to return the levees to +3 feet NAVD).
	\$1,650,000	\$618,700	\$514,850	\$1,559,460	N/A	\$638,030	\$262,888	\$1,825,000	\$970,138	\$1,735,121
* 1813 - 1814   1815	\$350,000	\$54,000	\$48,000	\$440,540	\$580,000	\$37,611	\$16,493	\$175,000	\$52,572	\$133,641
Topolitio In	N/A	N/A	N/A	N/A	N/A	N/A	N/A	K/X	N/A	N/A
Day Jako Salak	Pending	Pending	2012	Pending	N/A	2010	2010	Pending	2010	Pending
18 Hot of	1,200	N/A	009	200	N/A	1,500	N/A	1,500	10,000	24,600
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OI O	33	47	47	47	47	47	47	36	47	47
to shous so should be a state of the state o	30	25	25	25	25	26	25	30	25	25
adkit koaligita	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS
	HR	HR MM	HR	DM MC SP	PL	HR	HR INF	SP	HR MM	HR MM
All State of the S	Horseshoe Lake Marsh Restoration	South Johnson Bayou Restoration	Dreary Island Restoration	Rabbit Island	Bank Stabilization: Dugas Cut to Kelso Bayou	East Little Pecan Bayou Restoration	Little Chenier Road	Clear Marais Bank Protection	West Big Burn Bridge Restoration	South Little Pecan Bayou Restoration
Str office	CS41	CS-42	CS43	CS-44	CS48	CS-50	CS-51	CS-52	ME-26	ME-27
те пвтвот Ргодгат	CIVb	CIVb	CIVb	CIVb	CIVb	CIVb	CIVb	CIVb	CIVb	CIVb

Planning Unit	4	4	3a	3a	36	36	3b	3b	36	36	36
Project Summary	This project will replace 12 existing water control structures that are not currently functioning as designed and also refutbish 1.5 miles of adjacent levees. Cameron Parish will purchase the structures that will be installed by the local gravity drainage district. The objective is to restore the pre-Hurricane Rita salinity and water levels to approximately 10,000 acres of marsh.	This project will provide necessary financial assistance to Calcusieu Parish Government to manage and implement the CIAP program.	This project will remove excessive accumulated sediment from Attakapas Canal at its intersection with Lake Verter in Assumption tharsily for a distance of approximately 2,000 feet improving water quality. Isberies habitat, and sport fishing access. The removed sediment will be beneficially used to restore approximately 12 acres of bald eypress habitat along the shordine of Lake Verret. As part of the project, cypress trees will be planted at the rate of 302 trees per restored acre.	Located in west-central Assumption Parish, Lake Verret accumulates sediment in its shallow areas. The proposed project will use a hydraulic dredge to remove material that will be used beneficially. The project objective is to remove accumulated sediment from Lake Verret and improve the condition of 40 acres of deteriorating lake rim and adjacent swamp habitat.	The project is located in Region 3. Archafalinga River Basin, St. Mary Parish, along the southeastern shoreline of East Cote Blanche Bay, around Point Chevreuil and the northwestern shoreline of Archafalya Bay, the eroting shoreline was eaused by the open water fetch and resulting wave energy from East Cote Blanche and Archafalaya Bays. Project features will protect the natural ridge functions of the Bayou Sale Ridge and protect the adjacent marshes.	Located in St. Mary Parish, this project near the mouth of Deer Island Bayou will dredge a 5.280 foot long, 280 foot wide channel to improve water and sediment flow into northeast Atchafalya Bay. The dredged material will be beneficially used to reduce shoreline erosion and to create about 30 acres of marsh.	This project located in St. Martin Parish will construct an open-air pavilion and a 1,235 fool long nature trail adjacent to an existing wilderness canoe trail. This project will serve as a gateway to the Atchafalaya Basin providing public access, information and educational opportunities. It will ultimately tie into Lake Fausse Point State Park.	This project will include an upgrade of the existing wastewater treatment plant infrastructure and construction of a discharge structure and oping system into the adjacent wetlands for wetland assimilation. Stephensville swastewater facility is located in Stephensville along Bayou Milhomme in Lower St. Martin Parish.	This project consists of a combination of multiple actions including dredging, gapping, and creating inline-sediment traps in and adjacent to Beau Bayou in St. Martin Parish. This will correct existing sediment overload and lack of oxygen (hypoxia) improving fisheries habitat as well as the overall health of the system.	Feasibility Study of methods of marsh creation to build landmass and create vegetated weltands. Project will evaluate various methods to create a sediment deposition field and protect the existing shoreline. This will enhance natural processes to create landmass between Weeks Bay and the GIWW and protect it.	The project is located in Iberia Parish, and will aid the Port of Iberia in its day-to-day operations. This project will replace the bridge on Port Road over Rodere Lateral. The existing bridge is approximately 28 feet wide and 60 feet long. The Port of Iberia handles a substantial amount of OCS produced products and the large equipment used in transporting these products take a major toll on the port <sub>c</sub> 's bridges and roadways.
	\$3,006,631	N/A	\$977,000	\$4,634,146	\$1,655,704	\$2,440,352	\$342,050	\$2,200,002	\$3,360,461	N/A	\$391,807
* 1810 A 181 B 181	\$211,141	\$20,000	\$48,000	\$115,000	\$204,461	\$313,413	\$47,950	N/A	\$340,960	N/A	\$66,465
TO TO THE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$200,000	N/A
Day John State Salar	2011	N/A	Pending	Pending	Pending	Pending	Pending	Pending	Pending	N/A	2012
18 That	10,000	N/a	12	40	25	50	N/A	S	23,000	N/A	N/A
31,137,17,38,10,17	Cam.	Cal.	Asu.	Asu.	StM.	StM.	StMt.	StMt.	StMt.	Ibe. Ver.	Ibe.
13 I ISIN STATES	47	36	09	09	50	51	46	50	46	49	49
TOS HOUSE STATE ST	25	27	21	21	21	21	22	21	22	22	22
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	HR	PL	DM	DM	SP SP	DM HR MC	PA	MM	HR	PL	INF
Aller to the state of the state	North Mermentau Restoration	Calcasieu Parish Administrative Assistance	Attakapas Canal Hydrologic Restoration	Lake Verret Swamp and Lake Rim Restoration	Point Chevreuil Shoreline Protection	Deer Island Pass Realignment	Bayou Amy Boat Launch and Educational Pavilion	Stephensville Wastewater Assimilation and Facility Restoration	Beau Bayou Water Quality and Sediment Reduction	Weeks Bay/Commercial Canal Marsh Creation and Shoreline Protection	Port of Iberia Bridge Replacement - Port Road over Rodere Lateral
id allers	ME-30	NA	TE-59	TE-60	AT-06	AT-07	AT-08	AT-09	AT-10	TV-24	TV-25
Program	CIVb	CIVb	CIVb	CIVb	CIVb	CIAP	CIVb	CIAP	CIAP	CIAP	CIAP

Planning Unit	36	36	36	3b	36	36	3b	36	36	3b	3b	3b
Project Summary	The project is located in Iberia Parish on the Marsh Island State Wildlife Refige, and will construct approximately 55 acres of shallow bay bottom terraces planted with native vegetation. The construction of the terraces will result in the direct creation of 34 acres of marsh and it is anticipated that construction of the terraces will result in a 50% reduction in the erosion of the neighboring shoreline.	The project is located in Iberia Parish on the Marsh Island State Wildlife Refuge, and will construct approximately 55 acres of shallow bay bottom terraces planted with native vegetation. The construction of the terraces will result in the direct creation of 55 acres of marsh and it is anticipated that construction of the terraces will result in a 50% reduction in the erosion of the neighboring shoreline.	The project is located along the Vermilion Bay Shoreline south of Tigre Lagoon, if will establish approx. 8.300 linear feet of shoreline using the wave dampening structure determined to be most feasible. These structures will also allow for seofment trapping and accretion.	This project will provide necessary financial assistance to St. Mary Parish Government to manage and implement the CIAP program.	This project in St. Mary Parish at the Burns Point Recreation Park adjacent to East Cote Blanche Bay, will provide a 600 foot sheet builkhead and walkway along the park's shorteline. This will stop the rapid erosion that is occurring at the park's shortline and provide access for inspection.	The project is located in Berwick and extends to Morgan City in St. Mary Parish. This project will upgate I hongawan Road from Hwy 90 to the Rover Road, as a result it, the project will increase capacity, and improve safety and efficiency durin normal operations. The road improvement feature includes the widening of the existing road. The preliminary project benefit is to provide improved traffic flow and safety while increasing roadway access to the industrial and commercial facilities located in Bewvick, Louisiana.	Funds will be available to assist Vermilion Parish in improvements to the Coastal Zone Management plan for the parish.	This project is located in Vermilion Parish. The goal of the project is to armor the shoreline via 8,759 linear feet of onshore revetment for the south shoreline of Vermilion Bay at Southwest Point. The finchs allocated in the current project would be used to initiate surveying, geotechnical investigation, engineering, design and permit development so that when additional funds become available this project will be abbe to proceed to construction in a more-timely manner.	This project will realign approximately 2,000 linear feet of LA Hwy. 331, at a location approximately 3 miles south of LA Hwy. 14. This segment of the roadway has a reverse curve that represents a safety hazard for traffic traveling this highway to the Henry Hub.	This project will install 1,500 feet of cement bags at Trger Point in Vermilion Parish to slow erosion rates by half.	This project will replace an existing three span timber bridge with a four span concerned deck bridge for the Charlie Field Road Bridge across a tributary of Bayou Tiger. The degree is located approximately 2,300 feet south of LA Hwy. 14, in reastern Vermilion Parish.	This project provides for the reconstruction of several roadways in the Intracoastal City area to mitigate the damage caused by heavy oilfield support truck traffic over the years. The streets to be improved are as follows: Offshore Road (4,700 linear feet), Marge Road (1,450 linear feet), Teal Road (1,200 linear feet).
	\$1,094,130	\$645,554	\$4,662,196	N/A	\$1,010,000	\$1,018,761	N/A	N/A	\$272,299	\$1,199,130	\$371,201	\$469,416
* 180 All Hold Park	\$66,500	\$66,500	\$330,000	\$25,000	N/A	\$134,000	\$100,000	\$217,782	\$39,500	\$186,455	\$67,000	\$51,400
Solidition of the solid specific specif	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Day Jan Salar	2013	2013	2012	N/A	2011	2012	N/A	N/A	Pending	Pending	2011	2011
(S.I.R.)	55	55	132	N/A	V/N	N/A	V/N	V/N	N/A	V/N	V/A	N/A
1311817 3811017	Ibe.	Ibe.	Ibe.	StM.	StM.	StM.	Ver.	Ver.	Ver.	Ver.	Ver.	Ver.
51 S185G S181655	49	49	49	50	50	50	47	47	49	47	49	47
to strody Story o	22	22	22	21	21	21	26	26	26	26	26	26
SALI POSOUR	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS
	MC SP VP	MC SP VP	SP VP	, PL	SP	RF	PL	PL	Ŗ	SP	INF	NF
Start State of State	Lake Sand Terracing	Lake Tom Terracing	Vermilion Bay Shoreline Restoration	Planning Assistance and Administration (St. Mary Parish)	Bums Point Recreation Park Improvements	Thorguson Road Improvements	Vermilion Parish CZM Planning and Development	Shoreline Protection on Southwest Point at Southwest Pass	Henry Hub Acess Improvements - Highway 331 Realignment	Shoreline Protection and Marsh Creation at Tiger Point	Henry Hub Access Improvements - Charlie Field Road Bridge Replacement	Intracoastal City Street Improvements
to other	TV-32	TV-33	TV-35	TV-36	TV-37	TV-38	TV-40	TV41	TV-44	TV45	TV46	TV-49
Ргодгат	CIVb	CIVb	CIVb	CIAP	CIVb	CIVb	CIVb	CIVb	CIVb	CIAP	CIVb	CIVb

ä					
Planning Unit	3b	3b	36		
Collect Summary	This project provides for the widening and reconstruction of Charlie Field Road, a vital link between LA 14 and the Hemy Hub, from LA Hwy, 14 to LA Hwy, 331 in eastern Vermilion Parish. The project will widen the existing 18-foot wide roadway to a 20-foot surface for approximately 4,100 feet to provide room for the truck traffic to utilize this stretch of the roadway to access the Hemy Hub.	This project will create a one mile oyster reef I,300 feet from shore by using approved available materials. Oyster spat are plentiful in this area; therefore, creating this base will establish a living sustainable reef. This project will reduce th shoreline loss rate by half. It will slow down wave energy, attract fish and shellfish habitat, slow coastal erosion, and increase recreational fishing opportunities.	This project is located on the east bank of the North Prong of Schooner Bayou, from the GIWW to the Schooner Bayou Locks. With several breaches to contain, the project will employ culverts with flap gates to allow the freshwater flow to continue into the marshes to the east, while preventing uncontrolled saltwater intrusion into the Mermentau Basin.		
	\$442,000	\$1,229,184	\$1,595,723		
* 1900 STITUTE OF STIT	\$87,270	\$209,800	\$54,277		
ROTO OF STREET	N/A	N/A	N/A		
Paylate Salay	2012	Pending	2010		
N. I. R. T.	N/A	N/A	N/A		
31,1 <sub>18,1</sub> C 38,10,1 <sub>1</sub>	Ver.	Ver.	Ver.		
Silvid Shis	49	47	49		
to shoots	26	26	26		
3167 NO 1614	BOEMRE/ FWS	BOEMRE/ FWS	BOEMRE/ FWS		
	INF	SP	FD		
**************************************	Henry Hub Access Improvements - Charlie Field Road Improvements	Oyster Reef Pamilel to Cheniere au Tigre	North Prong Schooner Bayou		
id apply	TV-50	TV-51	TV-53		
Program	CIVb	CIVb	CIVb		

## Program: CIAP=Coastal Impact Assistance Program

Project Type: B1=Barrier Island; DM=Beneficial Use of Dredged Material; FD=Freshwater Diversion; HP=Hurricane Protection; HR=Hydrologic Restonation;
NF=infristructure: LA=Land Acquisition; NG—Aharsh Creation; MA=Marsh Management; OM=Outfall Management; PA=Public Access; PL=Planning; SD=Sediment
Diversion; SNT=Sediment and Nutrient Trapping; SP=Shoreline Protection; VP=Vogetation Planting.
Agency/Sponsor; BOEMRE: Bureau of Ocean Energy Management, Regualtion, and Enforcement; FWS= US Fish and Wildlife Service. The administration of CIAP was transferred from BOEMRE to FWS on Oct. 1, 2011.

<u>Paristr</u> Asc=Ascension, Asu=Assumption, Cal=Calcasieu, Cam=Cameron, Ibe=Iberia, Lefelteson, Lif=Ladiouche, Lif=Livingston, Orl—Orleans, SC-St. Charles, SUa=St. James, SUo=St. John the Bapitis, SMA=St. Mari, SMIRI—St. Mari, SIG=St. Tammany, Tan=Tangipakoa, Ter=Terreboune, Plaq=Plaquemines, ver=Vermilion

#### Appendix E Inventory of Non-State Projects

### B. Federal Protection Projects

## EAST JEFFERSON LEVEE DISTRICT LEVEE ALIGNMENTS & STRUCTURES 0 0.45 0.9

#### Legend

## Levee Construction Type

Earthen Levee - I-Wall

Sheet Pile

Control Structure

Control Structure

Flood Gate

Pump Station

Water Bodies



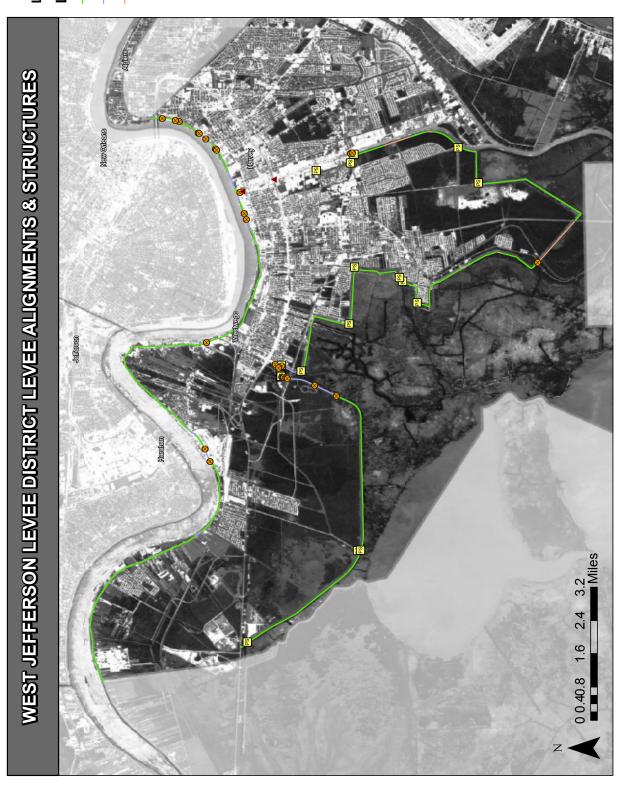


Map by: Louisiana Office of Coastal Protection & Restoration

Date: April 28, 2009

Imagery: 2000 SPOT

Data Sources: USACE LA OCPR



#### Legend

## Levee construction types

Earthen Levee - I-Wall

Sheet Pile

Control Structure

Flood Gate

Pump Station

Water Bodies



Map by: Louisiana Office of Coastal Protection & Restoration

Date: April 28, 2009

Imagery: 2000 SPOT

Data Sources: USACE LA OCPR

# ALGIERS LEVEE DISTRICT LEVEE ALIGNMENTS & STRUCTURES



#### Legend

## Levee Construction Type

Earthen LeveeI-Wall

· Control Structure

Control Struture

] Pump Station

Water Bodies





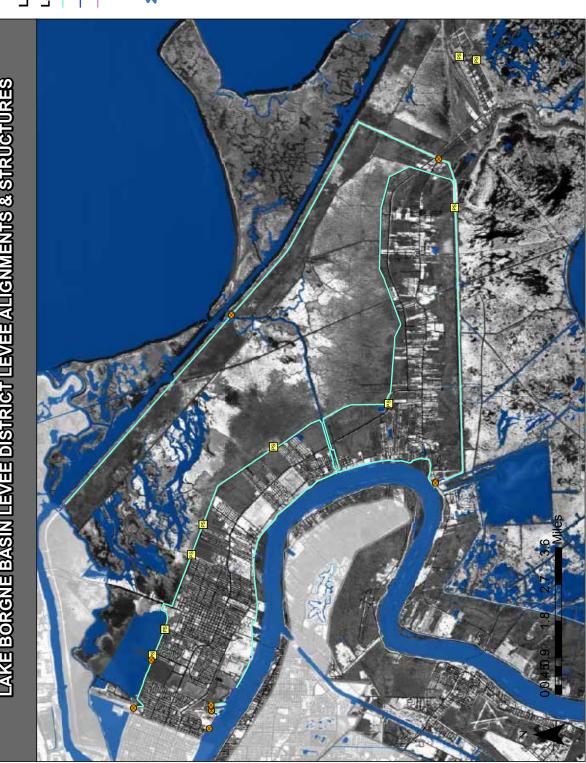
Map by: Louisiana Office of Coastal Protection & Restoration

Date: April 28, 2009 Imagery: 2000 SPOT

,

Data Sources: USACE LA OCPR

## LAKE BORGNE BASIN LEVEE DISTRICT LEVEE ALIGNMENTS & STRUCTURES



### Legend

### Levee Construction Type Earthen Levee

Control Structure - I-wall

Flood Gate

Pump Station

Water Bodies



Map by: Louisiana Office of Coastal Protection & Restoration

Imagery: 2000 SPOT Date: April 28, 2009

## ORLEANS LEVEE DISTRICT LEVEE ALIGNMENTS & STRUCTURES

### Legend

Earthen Levee — L-Wall - T-Wall — I-Wall

Control Stucture Sheet Pile

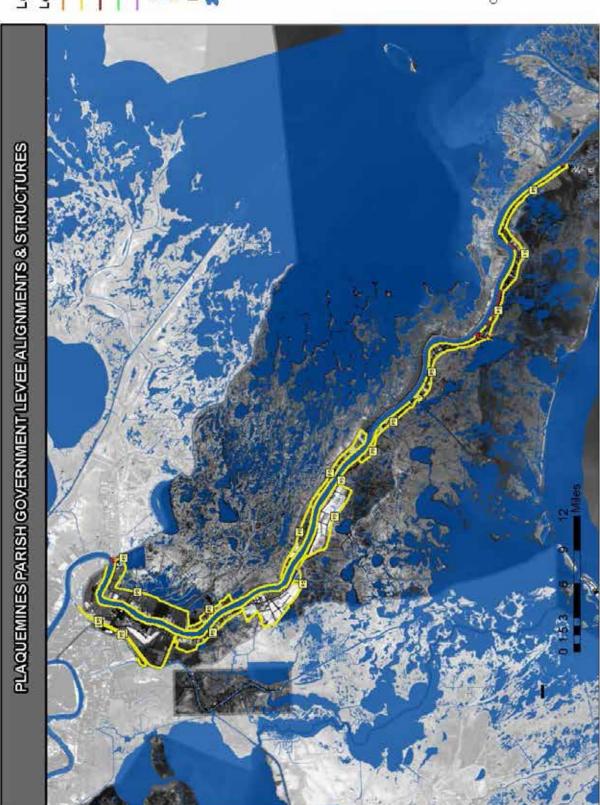
Flood Gate

Pump Station
Water Bodies



Map by: Louisiana Office of Coastal Protection & Restoratio

Date: April 28, 2009 Imagery: 2000 SPOT



### Legend

### Levee Construction Type - Control Structure

- Earthen Levee

- Sheet Pile HSWH |

- T-Wall

Control Structure Flood Gate

Pump Station

Water Bodies



Map by Louisiana Office of Coastal Protection & Restoration

Dete. April 28, 2009

Imageny, 2000 SPOT

# PONTCHARTRAIN LEVEE DISTRICT LEVEE ALIGNMENTS & STRUCTURES



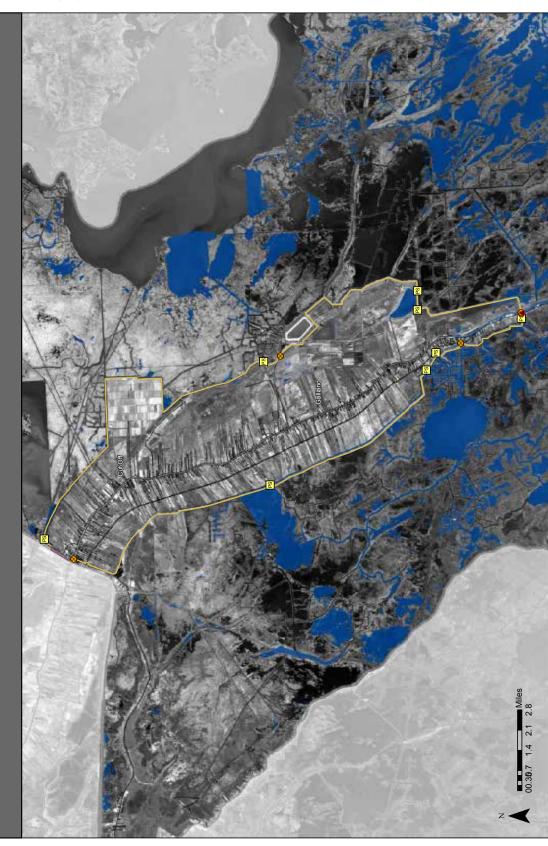
Map by: Louisiana Office of Coastal Protection & Restoration

Imagery: 2000 SPOT





## SOUTH LAFOURCHE LEVEE DISTRICT LEVEE ALIGNMENTS & STRUCTURES



### Legend

Levee construction types

- Earthen Levee

- I-Wall

Sheet Pile

Control Structure Flood Gate

Pump Station

Water Bodies



Map by: Louisiana Office of Coastal Protection & Restoration

Date: April 28, 2009

Imagery: 2000 SPOT

## TERREBONNE LEVEE & CONSERVATION DISTRICT LEVEE ELEVATIONS

### Legend

### Levee Elevation (Ft)

- 2.4 - 5.5

8.3 - 10.0 6.9 - 8.2 5.6 - 6.8

Water Bodies

Map by: Louisiana Office of Coastal Protection & Restoration

Date: April 28, 2009

Imagery: 2000 SPOT





### Appendix E Inventory of Non-State Projects

### C. Projects and Project Concepts in Coastal Parish Master Plans

Planning Unit	3a	3a	3a	За	3a	За	За	За	3a	3a	3a	3a	3a	За	3a	3a	3a	3a	3a	3a	3a	3a	3a
Project Summary	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Dredging Bayou Terrebonne will result in an increase in the amount of freshwater available to eastern Terrebonne Parish marshes.	Description not provided.	Dredging Company Canal between the GIWW and Bayou Terrebonne will result in an increase in the amount of frestwater available for eastern Terrebonne Parish marsh sustainability.	Description not provided.	Storm water drainage will be used to introduce freshwater to an area of marsh west of Bayou Terrebonne currently experiencing saltwater intrusion and a high rate of subsidence.	Description not provided.	Through the use of an existing drainage ditch, removal of an earthen plug between the Montegut and Point aux Chenes drainage systems, construction of 3 small pump stations, and construction of a screw gate water control device near the removed plug location, increased volumes of freshwater can be made available to the marshes of Montegut and Point aux Chenes within the wildlife Management Areas. Over 9,000 acres of brackish and intermediate marsh will be benefited.	Proposed project components include installing three control structures along the rim of the lake and enlarging Lapsyrouse Canal to allow the controlled diversion of the Alchafalaya River water, nutrients, and sediments south into project area marshes. Outfall management structures are planned in the marsh interior to provide better distribution of fiver water. In addition, approximately 1, 6 miles of foreshore rock dyke is planned to protect the ordical areas of the south lake shoreline from breaching.	This freshwater introduction project will incorporate wastewater treatment effluent and freshwater from the GIWW by way of St. Louis Canal to Terreborne Marshes north of Lake Boudreaux. Nutrients added to the system will enhance and promote plant growth and the sediment introduced will promote accretion to an area at risk for further deeproation.	This pump station project is the largest among those considered at 1350 cfs. Utilizing stormwater drainage from the Hourna area, freshwater will be introduced to the marshes north of Lake Boudreaux in an area currently impacted by sativater intrison and subsidence. This project works in conjunction with Ashland Freshwater introducion and Wetland Assimilation.	Installation of a water control structure between GIWW and Grand Bayou and dredging of Grand Bayou will be added in order to increase the amount of water available to this region of Terrebonne Parish. Increased sheet flow of freshwater and nutrients will assist in vegetation enhancement and accretion in an area of marsh that is rapidly deteriorating.	Description not provided.	Saltwater intrusion and hydrologic isolation have led to rapid deterioration of marsh within the marshes located adjacent to Falgout Canal, between Bayou Dularge and the Houma Navigation Canal. This project will allow for re- establishment of Atchafalaya River influence.	Description not provided.	Pump station D19 will divert approximately 200 cts of freshwater east of Bayou Dularge into an area of marsh currently experiencing saltwater intrusion and a high rate of subsidence.	Pump station D18 will be used to introduce approximately 200 cts of freshwater to the marshes north of Falgout Canal. Marshes in this area are at risk of further deterioration due to saltwater intrusion.	Description not provided.
\$1600 taglict	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	\$5,000,000 - \$20,000,000	Not provided	\$5,000,000 - \$20,000,000	Not provided	\$500,000	Not provided	\$2,000,000 -	\$5,800,000	\$5,000,000	\$500,000	\$5,000,000 -	Not provided	\$10,000,000	Not provided	\$500,000	\$500,000	Not provided
\$3.187 887Q4	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.
Strong States	53	51	51	51	51	51	53	51	53	53	53	53	53	51	ಜ	ಬ	53	51	51	53	51	51	53
Palis Pality Pal	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
36,4	MC	MC	MC	MC	MC	HR	¥	HR	HR	HR	랖	Ŧ	FD	HR, SP	WA	Ħ	并	FD	Ħ	FD	Ŧ	H	HR
OLIEN IDEO	Sediment Introductions at South Shore Sister Lake	Marsh Creation North Stump Canal	Marsh Creation School Board Property South of Swing Bayou	Marsh Creation North-East of Toilet Bowl Canal	Marsh Creation North East of Bayou Penchant	Brandy Canal Hydrological Restoration Project	Dredge Bayou Terrebonne from Company Canal to Humble Canal	Dredge Minors Canal (GIWW to Lake Decade)	Dredge Company Canal to Convey Freshwater Flow to Terrebonne Marshes	Connect St. Louis Canal to Petit Caillou	Large Pump Station at Bayou Terrebonne	Pump Station at Bayou Petit Caillou for Freshwater Diversion to Ward 7	Bayou Terrebonne Freshwater Diversion Project	South Lake Decade Freshwater Enhancement and Shoreline Protection	Ashland Freshwater Introduction and Wetland Assimilation Project	Woodlawn Ranch Road	Reconnect Grand Bayou to GIWW	Freshwater Introduction via Blue Hammock Bayou	Falgout Canal Freshwater Enhancement (Phase I)	Freshwater Diversion using the Bayou Terrebonne Flood Gate	Lower Bayou Dularge Pump Station	Upper Bayou Dularge	Mayfield
FRILIN ISBEEL PESO,	FD 37	FD 21	FD 22	FD 23	FD 24	FD 70	FD 57	FD 58	FD 62	FD 59	FD 65	FD 66	FD 79	FD 68	FD 71	FD 77	FD 85	FD 33	FD 67	FD 80	FD 72	FD 73	FD 74
Program	A/N	∀/N	A/N	Α/N	A/N	∀/N	∀/N	∀/N	A/N	A/N	∀/N	∀/N	∀/N	∀/N	∀/N	∀/N	∀/N	∀/N	∀/N	∀/N	A/N	∀/N	Α/N

Planning Unit	-	-	-	1	1	1	-	1	1	1	-	-	-	-	-	-	٢	-	-	-	-	-	-	-	-	1	1	1	1	2	2	2
Project Summary	Storm water drainage from the northwest corner of Jefferson Parish (Kenner, LA area) now enters the Parish Line Canal and flows north, directly into Lake Pontchartrain. The proposed project would include the construction of a water control structure of worker storm water drainage into the LaBranche Wetlands for hydrologic restoration. The storm water would be diverted at the northermost feasible location to maximize the wetland area benefitted and the level of water quality enhancement.	Breton Sound Fringe Marsh Barriers.	Baptiste Collette and Surrounding Marshes.	American/California bay/Bohemia Diversion.	Bayou Lamoque Diversion.	Caemarvon Diversion.	Fort St. Phillip Diversion.	Grand Bay Diversion.	White's Ditch Diversion.	Breton Sound Land Bridge.	Baptiste Collette to Fort St. Phillip Ridge Reforestation.	Back Levee Canal-Bohemia to White's Ditch Ridge Reforestation.	Unnamed Ridges South of Caernarvon Ridge Reforestation.	Unnamed Ridges South of Caernarvon Ridge Reforestation.	Fort St. Phillip to Ostrica Lock Ridge Reforestation.	Ostrica Lock to Bayou Lamoque Ridge Reforestation.	River Aux Chenes Ridge Reforestation.	Breton Sound Fringe Marsh.	Violet Diversion.	Lake Borgne surge breaker/reef.	Marsh Creation-Bayou Terre aux Boeufs to Bayou la Loutre Land Bridge.	Biloxi Marsh Creation.	Central Wetlands Marsh Creation.	MRGO/Lake Borgne Landbridge Marsh Creation.	Orleans Landbridge Marsh Creation.	Biloxi Marsh Oyster Reefs/Shoreline Protection.	Lake Borgne Shoreline Protection-MRGO Land Bridge.	Orleans Landbridge shoreline protection.	Develop Oyster reefs as shoreline barrier-Biloxi Marsh.	This project would supplement a sediment delivery project now being developed by extending the sediment deposition areas to the north (Phase I) and south (Phase II) to restore these wetlands and enhance Land Bridge integrity. Phase I would restore the bounding shorelines and restore approximately 1,800 acres of wetlands. Phase II would restore approximately 2,000 acres of wetlands.	This project would restore hydrologic conditions at the critical Land Bridge area by plugging several oil and gas canals, restricting channel dimensions at the Bayou Perol/ Little Lake intersection.	The project includes the development of an area-wide sediment delivery system. This system would utilize sediments that are hydraulically-dredged from the Mississippi River, and transported via stury pipelines to the targeted marsh sites. The existing nock dikes at Dupre Cut will act as a retention feature to ensure that the sediments are successfully distributed into the target areas.
*ROD Reflor	\$855,000	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	\$25,000,000	\$2,770,000	\$45,880,000
12,4185	Jef.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	StB.	StB.	StB.	StB.	StB.	StB.	StB.	StB.	StB.	StB.	StB.	Jef.	Jef.	Jef.
Day Strong	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	103	103	103	103	103	103	103	103	103	103	103	105	105	105
Difference of the state of the	ω	-	-	1	1	1	-	1	1	1	-	-	-	-	-	-	٢	-	-	-	-	-	-	-	-	1	1	1	1	ω	æ	∞
**64	Ð	MC	MC	FD	FD	FD	FD	FD	FD	MC	RR	RR	RR	RR	RR	RR	RR	SP	FD	SP, OR	MC	MC	MC	MC	MC	SP, OR	SP	SP	OR	MC	H	WC
Star Island	LaBranche Wetlands Drainage Diversion	Breton Sound	Baptiste Collete	American/California bay	Bayou Lamoque	Caemarvon	Fort St. Phillip	Grand Bay	White Ditch	Breton Land bridge	Baptiste Collete-Fort St. Phillip	Bohemia-White's Ditch	Caemarvon	Caemarvon	Fort St. Phillip-Ostrica	Ostrica-Bayou Lamoque	River aux Chenes	Breton Sound	Violet	Lake Borgne	Bayou Terre aux Boeufs/ La Loutre	Biloxi Marsh	Central Wetlands	Lake Borgne/MRGO	Orleans Landbridge	Biloxi Marsh	Lake Borgne	Orleans Landbridge	St. Bemard Parish	Bayou Dupont Sediment Delivery Expansion	Bayou Rigolettes, Bayou Perot, and Harvey Cut Channel Management	Dupre Cut Project (BA-26) Wetland Restoration
*6 <sub>td/k307</sub>	JE-1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	NA-9	PR-1	MG-3
Program	State and Local	Α/N	A/N	A/N	∀/N	∀/N	∀/N	A/N	∀/N	∀/N	A/N	A/N	∀/N	A/N	∀/N	∀/N	∀/N	∀/N	A/N	∀/N	A/N	Α/N	Α/N	Α/N	∀/N	∀/N	A/N	∀/N	∀/N	CWPPRA	СМРРRА	СМРРВА

Planning Unit	2	2	2	2	2	2	2	7	2	2	2
Project Summary	The project would be conducted in three phases. Phase I would involve placing a dedicated dredge in the Bardaria Bay Waterway that would retrieve sediments from the bottom of the waterway and place them behind the saxisting rock armor along the eastem shore. Phase II would include constructing a rock dike along the southeastern shoreline of The Pen and using a dedicated dredge to place materials behind it. Phase III would consist of reinforcing the existing protection along the southwestern shore of The Pen and filling the area behind the protection with dredged material.	This project proposes to strategically place four sheetplie barriers in the Barataria Bay Waterway as a means of reestablishing historic levels of hydrologic exchange within the area. This project would help protect the integrity of the shorelines of the Dupre Out portion of the Barataria Bay Waterway. The project would also restrict channel dimensions to limit saftwater intrusion, tidal prism, and enhance freshwater retention.	The project would reconstruct breached shorelines, then restore interior marsh elevations and sand dune features.	This project is designed to fortify the region on the southern side of a portion of the Land Bridge Project - Phase 3. The wetland area is being hydrologically degraded by intenior exposure from the oilfield canal breaches and shoreline erosion along surrounding water bodies. The project would construct approximately \$2,000 feet of shoreline protection interspersed with viable one lifted canal closures, followed by the placement of dedicated dredge material to restore elevations of degraded wetland areas. The final identification of viable canal closure and wetland fill targets would be established during project design to maximize project effectiveness and minimize oil and gas impacts.	Approximately 8,000 linear feet of additional shoreline protection would be added along the west side of Goose Bayou to its intersection with Cypress Bayou. A dedicated dredge would the move sediment from the bottom of The Pen to the area behind the shoreline protection. The deposited material would be built into a topographic ridge to restore the historic function of ridges in the project area. The artificial ridge would be planted with woody vegetation.	This project will restore the natural ridges that historically sustained the growth of Oak Trees. The restored ridges would then be vegetated.	This project will restore the areas natural chenier plain morphology by restoring the elevation and integrity of approximately seven deteriorated ridges. Existing ridges would be followed and breaches would be plugged to interconnect remaining ridge features. The project would also provide for the restoration of former borrow pits along LA Highway 1. Restoration of the former borrow pits would include the degradation of pit levees, followed by the placement of fill. Future dedicated dredging projects could be initiated for the purpose of restoring basin areas between the restored ridges to restore natural elevation and hydrologic gradients.	This project will restore the natural ridges that historically sustained the area's complex typtrology. Existing banklines will be followed and breaches will be plugged to interconnect existing land masses, and would thus create a searce of ridges. The northern ridge would be constructed advoing a portion of the north bank of Bayou Dupont that lies between its intersection with oil and gas canals in the Sea Deuce area, westward from the intersection with the southeast bank of Chenier Traverse Bayou. The southern ridge would be constructed from the intersection of the Bataratia Bay Waterway with the historical Bayou Barataia ridge, north of Dupre Cut, and would then veer southeastward, along the north bank of the historical ridge, crossing the Texaco Canals, and then intersecting with the north bank of Bayou Maurice, to terminate at the west bank of the Barataria Bay Waterway, south of Dupre Cut.	This project is to restore natural hydrology by eliminating avenues for saltwater intrusion and sediment loss. The Texaco Canals are a maze of existing oil and gas canals which now breach the natural ridges. After an evaluation of production activities within the field, several canals will be eliminated and plugged off to re-connect existing and masses. Future dedicated dredging can be utilized to fill the abandoned canals to reduce saltwater intrusion and enhance freshwater and sediment retention.	This project would protect the integrity of the north shoreline of Bayou Rigulettes at its intersection with Bayou Barataria near Lafite, and would provide protection for the foundation and site of an existing water tank facility that provides potable dinking water to the coastal community of Grand site. The project would also eliminate further erosion of the north bank of Bayou Rigoettes directly at its intersection with Bayou Barataria, and by restricting any further widening of the channel, would help to limit unrestricted tidal prism exchange and saltwater intrusion.	This project would plug redundant oilfield access canals to enhance freshwater retention, improve hydrology, and to reduce pathways for saltwater intrusion and extreme tidal exchange.
\$1600 Dallow	\$34,800,000	\$7,600,000	N/A	\$39,000,000	\$5,000,000 - \$25,000,000	\$3,000,000	\$19,000,000	\$6,230,000	\$2,230,000	\$1,040,000	\$1,300,000
19, 16, 18, 10, 14, 16, 16, 16, 16, 16, 16, 16, 16, 16, 16	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.
Strate St	105	105	105	105	105	105	105	105	105	105	105
Part 12960 to	8	80	80	ω	8	8	89	ω	ω		80
***************************************	MC, SP	Ħ	SP	MC, SP	SP	BI	BI	R.R.	壬	S	SP
SURN TOROGO	South Shore of The Pen Shoreline Protection/ Stabilization	Dupre Cut/ Barataria Bay Waterway Channel Management	PPL 3 (XBA-1c) Grand Pierre Island Restoration	Land Bridge Shoreline Protection Extension and Welland Restoration	Goose Bayou to Cypress Bayou Shoreline Protection	Elmer's Island and West Grand Terre Oak Ridge Restoration	Caminada Chenier Restoration	Myrtie Grove Natural Ridge Restoration	Lafitte Oil and Gas Field (East) Restoration	Shoreline Stabilization at North Bank of Bayou Rigolettes near Bayou Barataria	Delta Farms Oil and Gas Field Restoration
**************************************	MG-5	PR-2	BS-1	PR-7	NA-3	BI4	FN-1	MG-1	MG-2	PR-5	PR-6
Ргодгат	СМРРRA	CWPPRA	СМРРRА	СМРРRA	СМРРRA	∀ЯЧЧМЭ	СМРРRА	СМРРRA	CIAP	СІАР	СІ∀Ь

Planning Unit	7	2	2	2	2	2	2	2	2	8	2	2	2	2	2	2	2	2	2
Project Summary	The project is designed to protect Grand Isle's southern shoreline from erosion which may eventually affect the integrity of an offstore pipeline corridor. This alternative would construct a rock dike along an approximately 2-mile section of Grand Isle shoreline to directly protect the beach by armament.	The project is designed to protect Grand Isles's southern shoreline from erosion which may eventually affect the integrity of an offshore pipeline corridor. This alternative would construct approximately 1.25 miles of rip-rap breakwater segments to extend an existing breakwater alignment eastward. This would indirectly protect the beach by reducing wave energy.	This project would complete the preliminary design for the construction of a replacement for the Leeville Bridge. The preliminary design phase would include survey, geotechnical testing, mitgation, permits, and the preparation of a preliminary design.	The project would construct approximately 22,000 feet of restored shoreline to reconnect remaining landmasses of the pennastu. Dedicated dredge material would then be placed to fill open water areas, then to restore overall wetland elevations. The sequencing and limits for the filling of target areas would be established during project design to maximize affectiveness.	This project would construct flood protection from the Town of Jean Lafitte southward to Goose Bayou. The flood protection system would be constructed east of LA Highway 45 at the wetland/non-wetland interface.	This project recommends the public purchase and preservation of 1,700 acres of Elmer's island as a publicly accessible primitive area.	The project involves the development of mult-use facilities to provide individuals of all physical capabilities with onsite recreational opportunities. The development will also afford them access to the adjacent wetlands, nearby State and Federal parks, and the abundant natural and cultural experiences offered by Louisiana's wetlands.	This project would provide basin-wide protection to insure the integrity of the affected wetland shorelines south of bey ulmny and Wilkerson Bayou in the eastern portion of the project, north of Barataria Bay in the middle portion of the project, and adjacent to Bayou Cholas, Bayou Defond, and Creole Bay in the western portion of the project. The project would restrict channel dimensions at various locations in order to limit saltwater infrusion, tidal prism, and enhance freshwater retention.	This project involves using a dedicated dredge, during high water levels in the river, to pump river-bottom sediment into the discharge stream of the siphon. The enriched effluent would continue its course over land, depositing the sediments along its route.	The proposed project envisions re-routing the Rosethome wastewater treatment plant effluent from the Intracoastal Canal to an area of adjacent wetlands. The project would consist of upgrading the capacity of the existing sewerage effluent pumping station and installing approximately 1,300 feet of force main. Water control structures and a flow distribution system would also be constructed to channel the flow through the wetlands. The outlet of the discharge line would be placed at the most hydrologically upstream point of the target wetland feasible to ensure that the maximum area of wetlands is benefited and the highest contaminant removal possible is achieved.	The proposed project envisions re-routing the Westwago wastewater treatment plant effluent from the local drainage canal network to an area of adjacent wetlands. The project would consist of constructing an effluent pumping station and installing approximately 4200 feet of force main. Water conduct stuctures and a flow distribution system would also be constructed to charnel the flow through the wellands. The outlet of the discharge line would be placed at the most hydrological upstream point of the larget wetland feasible to ensure that the maximum area of wetlands is benefited and the highest contaminant removal possible is achieved.	This project will modify existing ineffective breakwater segments on the northwest side of Grand Isle to close gaps which prevent sediment accretion.	Barrier island fronting Bay Coquette east of Scofield Island.	Chaland Headland.	Cheniere Ronquille.	East Grande Terre.	Pass Chaland to Grande Bayou Pass.	Restoration enhancement including elevating dunes and widening islands and planting a mangrove fringe on the backside of the islands across 2.4 miles, approximately 10 feet high and 2000 feet wide.	Barrier Island E of Bay Coquette to Sandy Point.
\$ KOD DARION	\$2,400,000	\$1,600,000	\$1,750,000	\$125,000,000	N/A	\$6,000,000	\$28,000,000	\$42,600,000	\$330,000	\$90,000	\$350,000	\$650,000	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided
State of Sta	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef.	Jef	Jef.	Jef.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.
Strong Stellers	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105
Part Police	ω	ω	œ	8	8	8	89	8	ω	ω	ω	ω	-	1	1	-	1	1	-
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Palen Idalo	Grand Isle Oil and Gas Pipeline Corridor Shoreline Protection - Alternative 1	Grand Isle Oil and Gas Pipeline Corridor Shoreline Protection - Alternative 2	Leeville Bridge Preliminary Design	Bayou Perot/Rigolettes Peninsula Restoration	Goose Bayou to Lafitte Levee	Elmer's Island Acquisition and Preservation	Wetland Harbor Activities Recreational Facility (WHARF)	North Barataria Bay Shoreline Wave Breaks	Naomi Siphon Sediment Enrichment	Rosethome Wetlands Sewage Effluent Diversion	Bayou Segnette Wetlands Sewage Effluent Diversion	Grand Isle Plan, Part I - NW Grand Isle Breakwater Enhancement	Bay Coquette Barrier Island	Chaland Headland	Chenier Ronquille	E. Grand Terre	Pass Chaland to Grand Bayou	Pelican Island	Sandy Point Barrier Island
** GLUNN 138 GLO I REGOT	BI-5	BI-5	LAF-3	PR-11	NA-8	BI-3	CS-4	BB-1	NA-1	NA-6	CS-3	BI-6	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ргодгат	CIAP	СІ∀Ь	СІАР	CARA	САRA	CARA	AAAO	AAAO	State and Local	State and Local	State and Local	State and Local	Α/N	∀/N	∀/N	Α/N	∀/N	∀/N	A\N

Planning Unit	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	3a	3a	За	3a	За	3a	3a
Project Summany	Sandy Point/Bay Coquette.	Restoration enhancement including elevating dunes and widening islands and planting a mangrove fringe on the backside of the islands approximately 10 feet high and 2000 feet wide.	Shell/Lanaux Island.	Baptiste Collete sub-delta.	Venice: Tiger Pass to West Bay.	Buras/Bastian Bay Diversion.	Myrtle Grove Diversion.	Naomi Siphon.	Spanish Pass Freshwater Diversion.	West Pointe a la Hache Siphon.	Fringe Marsh Construction.	Myrtle Grove to Naomi Fringe Marsh.	Port Sulphur to West Pointe a la Hache Fringe Marsh.	Fringe Marsh Construction.	West Pointe a la Hache to Myrtle Grove Fringe Marsh.	Empire Channel Islands, Bayou Long/Bayou Fontanelle.	Bayou Grand Cheniere/Lake Hemitage.	Ridge North of Bay de la Cheniere (West of Nairn).	Bastian Bay.	Bay Coquette.	Bay Joe Wise.	Bay Long.	Bayou Grande Liard/Buras Fringe Marsh.	Empire Waterway/ Bayou Long.	North of West Grande Terre Island.	Ridge West of Venice along banks of Spanish Pass.	Install a barrier along the south bank of Schooner Bayou from LA Hwy 82 to the Schooner Bayou structure. These measures would halt salkwater infrusion into the basin, preserving the integrity of the Mementau Basin and create surge protection for the communities, agricultural economy and act as another line of defense against sform surges caused by tropical storms and hurricanes.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Sediment would be dredged from Lake Decade and placed in a semi-confined manner in strategic locations along the lake shorieline to create and nourish intentidal intermediate and fresh marsh. Approximately half of the created marsh would be planted with appropriate welland vegetation. The borrow area in Lake Decade would be located and designed in a manner to avoid and minimize potential environmental impacts to the maximum extent pradricable.	Description not provided.	Description not provided.
\$800 Refine	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	\$21,000,000	Not provided	Not provided
19,18,10 88,104	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Plaq.	Ver.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.
Story Strike	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	47	51	53	51	51	51	51	53
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OHIN COLLINATION	Sandy Point	Scofield Island	Shell/Lanaux Island	Baptiste Collete	Venice	Bastian Bay/Buras	Myrtle Grove	Naomi	Spanish Pass/Venice Diversion	West Point a la Hache	Empire-Triumph Fringe Marsh	Myrtle Grove-Naomi	Port Sulphur-West Pointe a la Hache	Venice-Triumph Fringe Marsh	West Point a la Hache-Myrtle Grove	Bayou Long/ Bayou Fontanelle	Lake Hermitage	Nairn	Bastian Bay	Bay Coquette	Bay Joe Wise	Bay Long	Bayou Grand Liard/Buras	Bayou Long	Grand Terre (West)	Venice	Highway 82/ Schooner Bayou Control Structure	South-West Shore Lake Decade	East Island Dune and Marsh Restoration	Marsh Creation to the North of Lost Lake	West Shore Lake Decade	Lake Decade Marsh Creation and Nourishment	North Shore Lake Mechant	Marsh Creation East of Lake Boudreaux
SQUITN FOR THE PROPERTY OF THE PARTY OF THE	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	FD 8	FD 42	FD 6	FD 7	FD 9	FD 10	FD 28
Program	A/N	∀/N	Α/N	Α/N	∀/N	A/N	A/N	A/N	∀/N	A/N	A/N	A/N	∀/N	∀/N	∀/N	Α/N	A/N	A/N	∀/N	∀/N	∀/N	∀/N	∀/N	∀/N	∀/N	∀/N	A/N	∀/N	A/N	A/N	∀/N	∀/N	Α/N	∀/N

Planning Unit	3a	3a	3a	3a	3a	3a	3a	3a	3a	3a	3a	3a	3a	3a	3a	3a	3a	3а	3a	3a	3a	3a	3a
Project Summary	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Marsh creation on the east bank of Bayou Terrebonne from Madison Canal to Grand Bayou to improve the integrity of the channel to convey freshwater.	Description not provided.	Description not provided.	The proposed project consists of several features to protect the marsh, create marsh and extend the land bridge function of the North Lost Lake Mechant Landbridge Project to the west. Marshes north, east, and west of Lost Lake serve an important function as an intermediate zone buffering fresh marshes to the north from higher salinities to the south. Features include 160 acres marsh nourishment along the northern and western shoreline of Lost Lake, 30 acres terracing to reduce fetch in the northeast of Lost Lake, 30 acres ferracing to reduce fetch in the northeast of Lost Lake, 30 acres of marsh creation between Lake Paige and Bayou Decade, removal of weirs and installation of more open structures to increase the flow of freshwater and sediment delivery.	Use of material dredged from the Atchafalaya River to create marsh of Point Au Fer Island.	Description not provided.	Description not provided.	Description not provided.	Description not provided.
\$1600 Kallety	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	\$5,000,000 -	Not provided	Not provided	\$26,000,000	\$5,000,000 -	Not provided	Not provided	Not provided	Not provided
State of Sta	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.
CHRIST READY	51	51	51	53	53	53	51/53	53	53	51	51/53	53	53	51	53	53	51	51	51	53	53	51/53	53
Meles Stranger	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
*50,00	MC	RR	RR	MC	MC, SP	MC	MC, SP	ЭМ	RR	SP, RR	MC	MC	MC	MC, SNT	MC	MC	ЭМ	SP, HR	MC	FI	dS	SNT	SNT
*HON TO BOOL HEOD	Marsh Creation North Raccourd Bay	Bayou Dularge to Grand Pass Ridge Restoration	Bayou Decade Ridge Restoration from Lake Decade to Raccourci Bay	Marsh Creation Bush Canal	Lake Boudreaux-Lake Quitman Shoreline Protection and Marsh Creation	Marsh Creation North Shore Lake Tambour	Terrebonne Bay Shoreline Protection/Marsh Creation Comprehensive Plan Project	Marsh Creation East of Felix Lake	Bayou Terrebonne Ridge Restoration - Below Bush Canal	Lake Mechant South-West Shoreline Protection and Bayou Dularge Ridge Protection	HNC Beneficial Use of Dredge Material (Bay Tambour and Terrebonne Bay)	Madison/Terrebonne Bays Marsh Creation	Marsh Creation North Shore Lake Chien	Bay Raccourci Marsh Creation and Terracing Project	Rebuild the East Bank of the Bayou Terrebonne - Integrity for Freshwater Conveyance	Marsh Creation North Deep Saline	Marsh Creation West of Four Point Bayou	Lost Lake Shoreline Protection and Hydrologic Restoration	Marsh Creation South-West of Four League Bay (Phased Implementation)	North Lake Boudreaux Basin Freshwater Introduction and Hydrologic Management	Bank Stabilization along Bush Canal and Bayou Terrebonne	DULAC Bayou - Marsh Terracing	South Montegut - Marsh Terracing
*64   R50;	FD 11	FD 35	FD 36	FD 12	FD 13	FD 15	FD 16	FD 27	FD 34	FD 87	FD 88	FD 89	FD 14	FD 19	FD 20	FD 25	FD 26	FD 31	FD 63	FD 69	FD 84	FD 17	FD 18
Ргодгат	A/N	∀/N	∀/N	∀/N	∀/N	A/N	∀/N	∀/N	∀/N	∀/N	∀/N	∀/N	A/N	∀/N	∀/N	A/N	∀/N	∀/N	Α/N	∀/N	A/N	∀/N	A/N

Planning Unit		3a	3a	3a	3a	3a	3a	3a	3a	3a	3a	3a	3a	3a	3a	3a	3a	3b	3b	36
S&P Project Summary		Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Description not provided.	Under normal circumstances, the Franklin Canal furnels stormwater from urban areas in and around Franklin to lowlying outfall marshes and bays of the Culf of Mexico along Louisiana's central coast. However, the Franklin Canal also serves as a conduit for reverse flows generated by storm surge from the Gulf. In this capacity, the canal has carried elevated water levels northward resulting in flooding in Franklin and along US Hwy 90 (an evacuation routle) during Hurricanes Rifts and Ike. A closure and levee improvements are proposed to prevent backflow through the canal during surge events. The proposed project uses a floating barge to close the canal and includes sheet pile, earthwork embankment, and levee improvements.	The need for levee improvements in Morgan City was brought to the forefront by FEMA's issuance of new preliminary Digital Flood insurance Rate Maps (DFIRMs) in 2009, recent levee profile surveys, and a subsequent appeat to FEMA issued by the City of Morgan City. Being proactive in flood protection, the citizents within Consolidated Gravity Drainage District No. 2. (Morgan City and vicinity) passed a bond election in late 2009. Proposed levee and purp station insprovements incloate upgrades to existing levees to elevations ranging from 8 feet to 10 feet MSL. The improvements address vulnerability caused by water levels arising from Lake Palourde. The proposed upgrades will provide backwater protection from Atbridgary arientine events and storm surge from the Culf as well as from stormwater unoff in the Terrebonne Basin north of the city. Upon completion of this project, backwater protection levees in Morgan City will be suitable for certification by the City and FEMA accreditation.	Amelia flood protection presently consists of a somewhat disparate, non-certifiable levee system which offers minimal backwater protection from Bayou Boeuf and Lake Palourde. Drainage District No. 6 applied for Statewide Flood Control Program funds to increase the height of the levee to a consistent 7 feet MSL. Partial funding was granted. However, this initial phase is but a fraction of the proposed comprehensive levee system needed for the Amelia vicinity as proposed by the drainage district and state and federal authorities.
\$800 kd64		Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	Not provided	\$5,775,000	\$16,000,000 -	\$2,260,350
AH SIG		Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	Ter.	StM.	StM.	StM.
DHSIQ SEIG		53	51	53	51	53	51	53	51	51	53	53	53	51	53	53	53	50	50	50
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*67	\[   \]	HR	H	HR	HR	H	HR	FD	HR	HR	BI	BI	BI	BI	BI	BI	BI	<u></u>	ታ	±
**************************************		Lower Grand Caillou	Upper Grand Caillou	Point-Aux-Chene	Remove Constrictions/Dredge GIWW from Bayou Black to Bayou Wallace	Installation of Flap Gated Culverts Under Highway 57 between Dulac and Highway 56	Plugs Leaks in GIWW (Bankline Protection for GIWW)	Break in Avoca Guide Levee, North of Horse Shoe to Corvey Freshwater to Terrebonne Marshes	Chacahoula Basin Plan	Carencro Bayou Freshwater Introduction Project	Wine Island	West Timbalier Island	Beach and Back Barrier Marsh Restoration, East and Trinity Islands	Barrier Shoreline Restoration Point Au Fer Island	Wine Island Rookery	West Raccoon Island Shoal Enhancement and Protection	Rock (Breakwaters) for Whiskey Island	Franklin Canal Closure and Levee Improvements	Morgan City Levee Improvements	Amelia Flood Protection Improvements - Initial Phase (Partial Miller Plan Alternative 2E)
**64	(le30)	FD 75	FD 76	FD 78	FD 60	FD 82	FD3	FD 61	FD 32	FD 64	FD 43	FD 44	FD 50	FD 56	FD 46	FD 48	FD 38	N/A	NA	N/A
Program	4	∀/N	∀/N	A/N	A/N	A/N	∀/N	A/N	∀/N	A/N	Α/N	A/N	A\N	A/N	A/N	Α/N	A/N	Α\N	Α/N	Α/N

Planning Unit	3b	3b	3b	3b	3B	39	3b	36	3b	3b	35	35	98
Project Summary	Hanson Canal and Yellow Bayou, both similar to the Franklin Canal, were designated to serve as conduits for removal of stormwater following normal rainfall events. However, during hurricanes and related events, both serve as a means for reverse flow generated by storm surge. Hurricanes Rita and Ike are recorded example events. Closures and levee improvements are needed to prevent surge flows from moving inland during surge events.	During Hurricane lke, the Charenton Navigational Canal overflowed its banks and inundated the Yokely drainage area with storm surge. Levee improvements and construction of a berm parallel to industrial Road and the Charenton Navigational Canal south of US 90 are needed to prevent damages from storm surge inundation.	This alternative is presented as a flood control structure with embankment improvements along both sides of the Charenton Canal. Embankment improvements are needed to prevent overtopping of the canal along its length near urban areas. These improvements will connect to existing levees that are paramed from ungaging and proposed federal and/or State funded levees. The timeframe for the construction of these federal/State levees was indefinite at this writing. Nonetheless, the general consensus at the local, regional, State, and federal levels is that the major were level emprovements are decades away, dependent upon state and federal funding appropriations. The functional success of this alternative is directly dependent upon completion of proposed federal and state alignments west of the Charenton Canal to and beyond the Cypremort Ridge tying in to highlands of the Teche Ridge near the parish line.	Alternative 2 proposes the construction of a flood control structure in Bayou Teche east of its intersection with Charenbon Canal. This alternative is less costly than the previous option as it is not dependent on future new federal or state levee construction west of the Charenton Canal or along or west of the Cypremort Ridge. A short levee extension extending northward from the westemmost end of the Bayou Yokely Levee reach will be required.	Reach W-124 near Turtle's Corner south of the city limits of Berwick has a height deficient section approximately 75 feet wide and 1.5 feet deep. The proposed project, which is a federal responsibility, is to fill and compact the area to ensure levee height and design consistency with the surrounding system.	Within the area defined by Drainage District No. 1, this project requires the elevation of 43 miles of levee to no less than 18 feet MSL. The current levee heights range from 3.5 feet to 20 feet MSL, and some reaches of the existing levee system have been breached by storm surge.	Alternative 2E follows the existing levee alignments in the northwestern section of Amelia and then create an internal levee ring to protect most of the residential areas of Amelia. This alternative excludes much of the industrial area along Bayou Boeuf.	The Berwick Lock is currently below the elevation of the surrounding Atchafalaya River levee and seawall protection system. This situation creates vulnerability for all urban and agriculture land situated between Berwick and Calumet as a direct function of Atchafalaya River flows, both riverine and surge. The USACE is aware of the lock elevation deficiency and has the responsibility to elevate the height as needed.	The reaches currently protect the municipalities of Berwick and Patterson and the community of Bayou Vista from storm surge. Currently, the levee reaches range from 9-19 feet MSL. The proposed project would elevate the levees to a consistent 18 feet MSL.	Reconnaissance Study and possible feasibility analysis	This alternative is presented in the Willer Plan, begins in Assumption Parish on the east side of Bayou Boeuf near lits intersection with Lake Palourde, continues southward east and inclusive of existing urban areas, crosses the Intracoastal Waterway with a control structure, continues westward in St. Mary Parish south of the Intracoastal Waterway along the higher ground of Avoca Island in a generally northwest direction, and lies into the Avoca Levee near the Bayou Boeuf Locks south of Morgan City.	The Louisiana State Master Plan Alignment begins east of St. Many Parish coming westward from Terrebonne Parish to the east bank of Bayou Boeuf, crosses Bayou Boeuf south of the railroad track via a control structure, follows Bayou Boeuf on the Amelia side southward then turns northwest along the bank, proposes a lock in Bayou Boeuf connection to Avoca Island levee near the Bayou Boeuf Locks at Morgan City.	An additional alternative was presented during the planning process (4E) involving the construction of a backwater protection flood control structure in Bayou Chene south of the GIWW with associated new levee alignments. This alternative is in the conceptual stage of planning and requires additional analysis, comparison, and contrast to the other eastern St Mary and regional backwater protection alternatives. Once reasonable feasibility is established, a detailed evaluation of this alternative may be warranted as a suitable alternative in the state master plan. An initial investigation generally following the guidelines of a USACE reconnaissance study would be in order in an effort to determine the basic feasibility of the alternative. A more detailed feasibility will follow should the project prove feasible with benefits and cost comparable to Alternatives 1E and 3E.
\$1600 Daylot	\$6,200,000	\$5,000,000	\$114,000,000	\$14,000,000	\$200,000	\$117,000,000	\$50,000,000	\$1,000,000 -	\$22,000,000	\$100,000	\$171,650,000	\$400,000,000	
Sign of Strong S	StM.	StM.	StM.	StM.	StM.	StM.	StM.	StM.	StM.	StM.	StM.	StM.	StM.
Strong Steller	50	50	50	20	50	50	50	50	50	50	50	50	20
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**O <sub>4</sub>	НР	НР	윺	Ŧ	НР	Η	НР	£	НР	НР	ф	НР	윺
Stand Tolk of the Standard Sta	Hanson Canal and Yellow Bayou - Flood Control Structures	Yokely Levee Improvements	Charenton Canal - Flood Control Structure and Levee Improvements - Alternative 1	Charenton Canal - Flood Control Structure and Levee Improvements - Alternative 2	Berwick Levee Improvements - Reach W-124 South	West of Wax Lake Outlet to Charenton Canal - Continued Levee Improvements	Amelia Area - Continuation of Miller Plan Alternative 2E	Berwick Lock Elevation	WHLO East, Wax Lake East, and W-124 Levee Reach Improvements	SMLD Backwater Plan Reconnaissance and Feasibility Analysis	Amelia Area - Miller Plan Alternative 3E	Amelia Area - Louisiana State Master Plan Alignment 1E	Amelia Area - SMLD Backwater Prevention Plan 4E
**************************************	N/A	N/A	NA	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Program	∀/N	∀/N	Α\N	∀/N	∀/N	A/N	A/N	∀/N	A/N	Α\N	∀/N	A/N	Α\N

Planning Unit	3p	3b	35	3p	36	36	35	3b	9g	3b	3b	3b	38	3b	3b/4	3b/4
Project Summary	Bayou Choupique functions as a conduit for storm surge much like the canals noted previously. A flood control structure and associated levee improvements are proposed to ensure adequate flood protection for the west end of the parish.	The levees along Bayou Sale are proposed for elevation to 18 feet MSL to ensure adequate storm surge protection. Gordy and Ellerslie reaches are included.	This Miller Plan alternative proposes a levee alignment west of the Charenton Canal that generally follows the 5 foot contour extending westward to the Ivanhoe Canal, turns southward along the east side of the Cypremort Ridge, crosses Bayou Cypremort with a minor control structure, then generally follows the 5 foot contour along the west side of the ridge to appropriate connecting elevations of the Teche Ridge.	The Louisiana State Master Plan proposes a levee alignment which generally follows the alignment of the Miller Plan's western levee routing, but instead of furning south at the Cypremort Ridge, it continues westward crossing the ridge and extends to and beyond the parish line into Iberia Parish.	Scott Canal acts as a conduit for storm surge much link the Franklin Canal. A flood control structure is proposed to ensure adequate flood protection for the west end of the parish.	Kelley Canal acts as a conduit for storm surge similar to others noted. A flood control structure is proposed to ensure adequate flood protection for the west end of the parish.	The Vacherie Canal acts as a conduit for storm surge similar to others noted. A flood control structure is proposed to ensure adequate flood protection for the west end of the parish.	Provide protection to the watershed from storm events by construction of a levee system and water control structures that would link to similar measures in Iberia Parish.	Construct a flood control structure at the intersection of Boston Canal and the GIWW that could be closed in the event of a hurricane or tropical storm that would aid in stemming the rise of flood waters.	A reduction in the cross-sectional area of the channel by installing a structure at the terminal end which could be closed durling storm events. An opening in the structure would allow the passage of marine vessels and barges. This would be in conjunction with other measures proposed for the GIWW whereby spoil elevation and armoring along the south side of the GIWW is proposed.	Install control structure on the Hebert Canal at the marsh/upland interface and raise the level of existing protection levees that will afford increased protection to communities from saltwater infrusion damage and flooding from storm surges. A previous plan created by the USDA NRCS has been completed and has engineering and design data.	By raising the height of an existing system of agricultural levees, an additional line of defense from tidal surges could be recognized. These existing levees would serve as a sound base for increasing the elevation.	Armor the south side of the eastwest side of LA 330.	Construct a flood control structure at the intersection of Oaks, Canal and the GIWW that could be closed in the even of a furricane or tropical storm that would aid in stemming the rise of flood waters and protect surrounding wetlands.	Provide protection to the eastern spoil banks along Freshwater Bayou by repairing existing breaches and subsequently armoring the existing spoil bank. This would create a sound boundary which would protect surroundary which would protect a surroundary which are so to exist a tropical storm or hunicane. Measures also would be undertaken to reduce the cross-sectional area of the intersection where Bayou Chene intersects Vermilion Bay.	Using existing oilfield canal spoil banks, raise existing elevation so that it would serve as a buffer that would intercept and minimize storm surge impacts and help reduce the amount of water borne floatsam and debris.
\$koo halo	\$40,000,000	\$32,700,000	\$66,250,000	\$35,000,000	\$500,000	\$500,000	\$500,000	Not provided	Not provided	Not provided	\$3,000,000	Not provided	Not provided	Not provided	Not provided	Not provided
State of Sta	StM.	StM.	StM.	StM.	StM.	StM.	StM.	Ver.	Ver.	Ver.	Ver.	Ver.	Ver.	Ver.	Ver.	Ver.
Stroty States	20	50	50	50	90	90	90	49	20	47	47	47/50	90	20	47	47/50
Part Halde	21	21	21	21	21	21	21	26	26	26	26	26	26	26	26	26
No State Contract of the Contr	Η	НР	Ŧ	Н	H	랖	유	НР	윺	H	H	윺	H	윺	S	Н
Pality Color In Color	Bayou Choupique - Levee Improvements and Flood Control Structure	Bayou Sale - Levee Improvements	West of Chareton Drainage Canal- Levee Construction - Miller Plan (SMLD Alternative 2W)	West of Chareton Drainage Canal - Levee Construction - Louisiana State Master Plan (SMLD Altemative 1W)	Scott Canal - Flood Control Structure	Kelley Canal - Flood Control Structure	Vacherie Canal - Flood Control Structure	Bayou Tirge Watershed/Flood Protection	Flood Control Structure at Boston Canal	Four Mile Canal Structure	Hebert Canal Watershed/Storm Protection	Protection Levee on the Marsh/Upland Interface	LA Hwy. 330 Hurricane Protection	Flood Control Structure at Oaks Canal	Freshwater Bayou Bank Stabilization	Utilization of Existing Oil Field Canals
**Kd	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	₹ Ż	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Program	∀/N	A/N	A/N	∀/N	Α/N	A/N	Α/N	∀/N	∀/N	∀/N	A/N	∀/N	∀/N	A/N	Α/N	∀/N

Project Type, Bi=Barrier Island; DM=Beneficial Use of Dredged Material; FD=Freshwater Diversion; HP=Hurricane Protection; HR=Hurricane Protection; HR=Hydrologic Restoration; NIM=Infrastructure; LA=Land Acquisition; MC=Marians Creation; MM=Infrastructure; DM=Dutain Of Management; PA=Public Access, PI =Planning, RR=Ridge Restoration; SD=Sediment Diversion; SNT=Sediment and Nutrient Trapping; SP=Shoreline Protection; VP=Vegetation Planting; WA=Wastewater Assimilation.

Parish: Asc.=Ascension, Asu.=Assumption, Cal.=Calcasieu, Cam.=Cameron, Ibe.=Iberia, Jef.=Jefferson, Laf.=Lafourche, Liv.=Livingston, Orl.=Orleans, Plaq.=Plaquemines, SIB.=St. Bernard, SIC.=St. Charles, SJJa.=St. James, SJJo.=St. John the Baptist, SIM.=St. Mary, SIMt.=St. Martin, SIT.=St. Tammany, Tan.=Tangipahoa, Ter.=Terrebonne, Ver.=Vermillon.

### PARISH CONCEPTS FROM COASTAL MASTER PLANS

Planning Unit	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	V
Project Summany	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	Endethord mornish honorish contraints and broad down and label from Darich morn sounds
\$180) 179f0.fd	\$404,198,000	\$12,482,434	\$1,083,514	\$5,495,089	Not provided	Not provided	\$3,772,982	\$300,000,000	\$307,820,000	Not provided	Not provided	\$1,033,000	\$47,768,000	Not provided	Not provided	\$3,878,982	Not provided	\$5,000,000	\$1,200,000	\$8,778,000	\$76,040,000	Not provided	\$1,281,040	\$877,800	\$20,000,000	\$12,000,000	\$877,800	\$458,407	\$219,450	\$25,939,077	\$1,189,934,181	\$8,532,094	Not provided	\$4,382,606	Not provided	\$11 655 866
<sup>13,148,16, 28,70,1</sup>	Cam.	Cam																																		
NI SI BELLES	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47	47
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	H	HR	HR	H	H	H	HR	H	Ħ	HR	HR	HR	H	HR	H	HR	MC	MC	MC	SNT	MC	Not Avail.	MC													
**************************************	Calcasieu Ship Channel Salinity Control Measure Hydrologic Restoration	Cameron Creole Freshwater Introduction	Constriction of Sabine Lake at Hwy 82 Causeway	East Calcasieu Lake Hydrologic Restoration	East Calcasieu Lake Marsh Creation & Hydrologic Restoration (A)	East Calcasieu Lake Marsh Creation & Hydrologic Restoration (B)	First Bayou Freshwater Introduction	Gulf Intracoastal Water Way Calcasieu Locks Expansion	Gum Cove Ridge Hydrologic Restoration	Maintain Sabine River Flows into Sabine Lake	Calcasieu Ship Channel Sediment By Pass	Plug West Cove Canal	Sabine River Hydrologic Restoration	Salinity Reduction at Sabine Lake Causeway	Tripod Bayou Control Structure	Humble Canal Hydrologic Restoration (Spillway)	Humble Canal Spillway	Improved Drainage East Grand Chenier	Kings Bayou Hydrologic Restoration	Little Pecan Bayou Hydrologic Restoration	Mermentau River Hydrologic Restoration	Mermentau Spillway (Big Burn) Humble Canal	Muria & Kings Bayou Drainage Improvements	Oak Grove Hydrologic Restoration	Reconditioning of East End Locks	Rockefeller Wildlife Refuge Spillway & Hwy 82 Modification	South Oak Grove Hydrologic Restoration	West Club Hydrologic Restoration	Woods Tract Hydrologic Restoration	Beneficial Use of Dredge Spoil at Sabine National Wildlife Refuge	Black Bayou Marsh Creation	Black Bayou Terraces	Black Bayou Terracing Project	Black Lake Marsh Restoration	Black Lake Restoration Project	Black Lake/Gum Cove Terracing
Old Root	CPCS13	CPCS14	CPCS19	CPCS20	CPCS22	CPCS23	CPCS29	CPCS31	CPCS34	CPCS39	CPCS10	CPCS70	CPCS53	CPCS54	CPCS59	CPME09	CPME10	CPME11	CPME12	CPME14	CPME18	CPME20	CPME21	CPME23	CPME24	CPME27	CPME30	CPME33	CPME35	CPCS01	CPCS02	CPCS03	CPCS04	CPCS05	CPCS06	CPCS08
mergo19	∀/N	∀/N	A/N	A/N	A\N	A\N	∀/N	A\N	∀/N	∀/N	A/N	A\N	A\N	∀/N	A/N	∀/N	A/N	∀/N	∀/N	∀/N	∀/N	∀/N	A\N	A\N	A\N	A\N	A\N	Α\ι								

### PARISH CONCEPTS FROM COASTAL MASTER PLANS

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) % of			ortelias.	esno <sub>L</sub>			0
Calcasieu Ship Channel Marsh Creation	MC	25	47	Cam.	\$620,658,248	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Cameron Meadows Marsh Creation	MC	25	47	Cam.	\$774,465,811	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Cameron Meadows Wetland Restoration	MC	25	47	Cam.	\$2,580,279,941	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Central Canal Marsh Creation	MC	25	47	Cam.	\$893,862,252	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Commissary Point Marsh Creation	MC	25	47	Cam.	\$78,427,828	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
East Calcasieu Lake Marsh Creation	MC	25	47	Cam.	\$3,477,117,831	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
East Calcasieu Lake Marsh Creation	MC	25	47	Cam.	\$12,979,029	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
East Calcasieu Lake Marsh Creation	MC	25	47	Cam.	\$8,847,120	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
East Calcasieu Lake Marsh Creation	MC	25	47	Cam.	\$11,977,646	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
East Calcasieu Lake Marsh Creation & Hydrologic Restoration	MC	25	47	Cam.	\$7,071,533	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
East Cove Marsh Creation	MC	25	47	Cam.	\$13,832,088	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
East Prong Grand Bayou Marsh Creation Project	MC	25	47	Cam.	\$26,566,711	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Gum Cove Marsh Creation	MC	25	47	Cam.	\$780,218,832	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Kelso Bayou Marsh Creation	MC	25	47	Cam.	\$12,040,467	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Lake Calcasieu Beneficial Use	MC	25	47	Cam.	\$24,007,981	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Marsh Creation in Calcasieu Lake - Beneficial Use	MC	25	47	Cam.	\$11,022,316	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Mud Lake Marsh Creation	MC	25	47	Cam.	\$918,359,223	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
No Name Bayou Marsh Creation	MC	25	47	Cam.	\$39,478,302	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
North Cameron Meadows Restoration	MC	25	47	Cam.	\$87,470,645	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
North Mud Lake Marsh Creation & Nourishment	MC	25	47	Cam.	\$38,723,287	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
North West Cove Marsh Creation & Nourishment	MC	25	47	Cam.	\$49,018,650	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
North Willow Lake Restoration	MC	25	47	Cam.	\$13,063,672	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Northwest Calcasieu Lake (North of Hackberry) Marsh Creation	sh MC	25	47	Cam.	\$3,093,080,570	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Northwest Calcasieu Lake (North of Hackberry) Component A Marsh Creation	MC	25	47	Cam.	\$904,215,130	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Northwest Calcasieu Lake (North of Hackberry) Component B Marsh Creation	MC	25	47	Cam.	\$934,629,690	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Northwest Calcasieu Lake (North of Hackberry) Component C Marsh Creation	MC	25	47	Cam.	\$1,274,052,035	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Northwest Calcasieu Lake (South of Hackberry) Marsh Creation	sh MC	25	47	Cam.	\$2,569,391,271	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Northwest Calcasieu Lake (South of Hackberry) Component A Marsh Creation	MC	25	47	Cam.	\$1,136,005,097	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Northwest Calcasieu Lake (South of Hackberrγ) Component Β Marsh Creation	MC	25	47	Cam.	\$1,442,245,190	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Rabbit Island Marsh Creation	MC	25	47	Cam.	\$10,217,288	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Sabine Marsh Creation Browns Lake Area	MC	25	47	Cam.	Not provided	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Sabine Refuge Marsh Creation & Nourishment	MC	25	47	Cam.	\$53,031,969	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Sabine Refuge Marsh Creation Project Cycles 6 &7	MC	25	47	Cam.	\$22,051,574	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Southeast Calcasieu Lake Marsh Creation	MC	25	47	Cam.	\$1,783,258,033	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Sweet Lake Land & Oil Shoreline Protection & Marsh Creation	h MC	25	47	Cam.	\$79,094,433	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
Sweet Lake Marsh Creation	MC	25	47	Cam.	\$604,964,269	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4

### PARISH CONCEPTS FROM COASTAL MASTER PLANS

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*		iles				
MC	25	47	Cam.	\$28,900,241	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
MC	25	47	Cam.	\$28,926,641	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
MC	25	47	Cam.	\$28,900,241	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
MC	25	47	Cam.	\$27,370,884	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
MC	25	47	Cam.	\$31,851,587	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
SP	25	47	Cam.	Not provided	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
MC	25	47	Cam.	\$932,469	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
SNT, BS 2	2	47	Cam.	Not provided	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
MC 25		47	Cam.	\$22,325,704	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
MC 25	1	47	Cam.	\$1,717,512,928	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
SP 25		47	Cam.	\$774,713	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
SP 25		47	Cam.	\$13,668,024	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
SP 25		47	Cam.	\$25,412,000	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
SP 25		47	Cam.	\$31,998,068	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
SP 25		47	Cam.	\$31,997,068	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
SP 25		47	Cam.	\$11,376,898	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
SP 25		47	Cam.	\$452,469,592	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
ОТ 25		47	Cam.	Not provided	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
SP 25		47	Cam.	\$338,507,025	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
SP 25	1	47	Cam.	\$173,457,789	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
MC 25		47	Cam.	\$30,745,784	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
SP 2	2	47	Cam.	\$31,630,947	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
SP 2:	10	47	Cam.	\$1,354,393	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
SP 25		47	Cam.	\$14,085,683	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
SP 25		47	Cam.	\$29,986,251	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
SP 25		47	Cam.	\$17,932,158	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
OT 25	1	47	Cam.	Not provided	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
SP	25	47	Cam.	\$19,564,190	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
SP 25	5	47	Cam.	\$97,820,948	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
SP 2:	2	47	Cam.	\$21,077,340	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4
SP	25	47	Cam.	\$21,670,281	Factsheet, economic benefit, construction cost breakdown available from Parish upon request.	4

Project Type: Bl=Barrier Island; DM=Beneficial Use of Dredged Material; FD=Freshwater Diversion; HP=Hurricane Protection; Parigh: Asc.=Ascension, Asu.=Assumption, Cal.=Calcasieu, Cam.=Cameron, Ibe.=Iberia, Jef.=Jefferson, Laf.=Isfourche, Liv.=Livingston, Orl.=Orleans, HR=Hydrologic Restoration; INF=Infrastructure; LAE-land Acquisition; MC=Marsh Management; OM=Outfall Plaq.=Plaquemines, SIB.=St. Benard, StC.=St. Charles, StBa=St. James, StDo=St. John the Baptist, StM.=St. Mary, StMt.=St. Marrin, StT.=St. Tammany, Management; Orl.=Orleans, Calcast. James, StDo=St. John the Baptist, StM.=St. Mary, StMt.=St. Marrin, StT.=St. Tammany, WA-Wastewater Assimilation.
WA-Wastewater Assimilation.



### Appendix E Inventory of Non-State Projects

### D. Restoration Partnership Projects



Year	Project	Partner	Award	Match
FY2008	Black Lake/West Hackberry Terracing	Ducks Unlimited, Inc	\$2,000,000	\$2,110,000
FY2010	Westwego WHARF	Trust for Public Land	\$1,025,000	\$1,250,000
FY2010	Calcasieu-Sabine Watershed Restoration	Ducks Unlimited, Inc	\$1,780,805	\$1,195,290
FY2010	Christian Marsh Terraces	Coalition to Restore Coastal Louisiana	\$454,720	\$298,000
FY2010	10,000 Trees for Louisiana	Coalition to Restore Coastal Louisiana	\$84,475	\$335,790
FY2010	Terrebonne Vegetative Plantings	Terrebonne Parish	\$11,833	\$130,000
FY2010	N. Lake Mechant Landbridge completion	Conoco Phillips	\$30,000	\$5,000
FY2012	LaBranche Wetlands Hydrologic Restoration	Coalition to Restore Coastal Louisiana	\$350,000	\$330,000
FY2012	Reforesting 50 acres with Superior Bald cypress	Restore The Earth Foundation	\$100,000	\$540,000
FY2012	St. Louis Canal Freshwater Introduction Project	Ducks Unlimited, Inc	\$550,000	\$800,000
FY2013	Biloxi Marsh Oyster Reef Restoration Project	The Nature Conservancy	\$400,000	\$159,300
FY2013	Establishment of Bald cypressWater Tupelo Nurseries for Restoration of Forested Wetlands and for Protection of Flood Control Levees in Coastal Louisiana	Comite Resources	\$100,000	\$50,000
FY2013	Carencro Bayou Freshwater Introduction	Ducks Unlimited, Inc	\$500,000	\$560,537
FY2014	Restoration and Refurbishment of the Grand Chenier Marshes	Miami Corporation and Cameron Gravity Drainage District #5	\$75,000	\$220,000
FY2014	Golden Meadow Marsh Creation	Ducks Unlimited, Inc	\$480,000	\$600,000
FY2014	Planting Bald cypress for Forested Wetland Restoration at East Tchefuncte Marsh Assimilation Wetland	City of Mandeville	\$25,000	\$25,000
FY2014	Coastal Forest and Ridge Restoration Planting Project	Coalition to Restore Coastal Louisiana	\$80,000	\$296,264
FY2014	Biloxi Marsh Community-based Oyster Reef Restoration Project	TNC and CRCL	\$352,432	\$210,696
FY 2015	Mud Lake Area Terraces	Apache Louisiana Minerals	\$150,000	\$150,000
FY 2015	Golden Meadow Marsh Creation, Phase II	Ducks Unlimited, Inc	\$385,000	\$600,000
FY 2015	W-15 Beneficial Use Marsh Creation Project	St. Tammany Parish Government	\$400,000	\$244,000
FY 2015	Freshwater Bayou Volunteer-Based Marsh Restoration Project	Coalition to Restore Coastal Louisiana	\$65,000	\$78,664
FY 2016	Mud Lake Area Terraces, Phase II	Apache Louisiana Minerals	\$100,000	\$100,000
FY 2016	Oyster Bed Surge Protection System	Terrebonne Parish	\$500,000	\$2,100,000
FY 2016	Calcasieu Lake & Sabine national wildlife refuge- oyster reef restoration project	The Nature Conservancy	\$300,000	\$200,000
FY 2016	Coastal Forest Restoration Project	Coalition to Restore Coastal Louisiana	\$100,000	\$327,648
		TOTAL	\$10,399,265	\$12,916,189



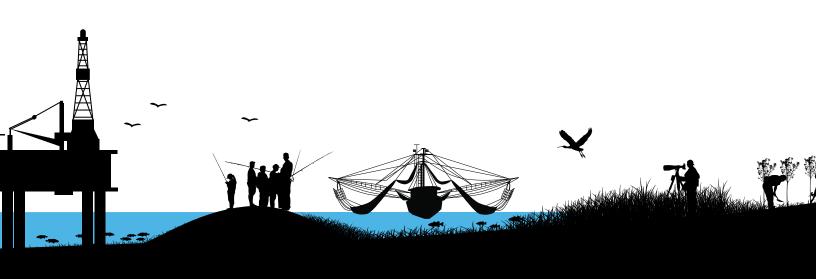
### Appendix F CPRA FY 2018 Capital Outlay Requests



### STATE OF LOUISIANA DIVISION OF ADMINISTRATION FACILITY PLANNING AND CONTROL State Agency E-Corts Priority List for Fiscal Year 2018

Agency	Agency Department	Agency	Project Beaused Title	Funding Source	(Year 1)	(Year 2)	(Year 3)	(Year 4)	(Year 5)	Total by Praiset
Priority	Priority	Number		9	FY2018	FY2019	FY2020	FY2021	Outlying Years	-
				IAT	\$250,000					\$250,000
		9	A COUNTY OF THE PERSON OF THE	FED	\$55,250,000					\$55,250,000
1 01 13	1 01 13	SOT .	CPCA Projects	NRR STAT DED	\$24,000,000					\$24,000,000
				CPR STAT DED	\$200,377,888					\$200,377,888
2 of 13	2 of 13	109	West Bank and Vicinity , New Orleans, LA Hurricane Protection (BA-66)	GO Bonds	0%	000'000'05\$	\$50,000,000	\$50,000,000	\$1,350,000,000	\$1,500,000,000
3 of 13	3 of 13	109	Lake Pontehartrain, LA & Vicinity Humicane Protection Project (PO-63)	GO Bonds	08	\$48,000,000	\$48,000,000	\$48,000,000	\$1,296,000,000	\$1,440,000,000
4 of 13	4 of 13	109	Morganza, LA to the Gulf of Mexico Hurricane Protection Project (TE-64)	GO Bonds	\$53,000,000	\$25,000,000	\$32,000,000	000'000'5£\$	\$77,845,000	\$222,845,000
5 of 13	5 of 13	109	West Shore, Lake Pontchartrain, Louisiana Hurricane Protection Project (PO-62)	GO Bonds	\$1,625,000	\$1,000,000	\$13,279,500	\$13,279,500	\$222,148,000	\$251,332,000
6 of 13	6 of 13	109	na (BA-75)	GO Bonds	\$13,500,000	\$5,000,000	\$3,500,000	\$0	\$0	\$22,000,000
7 of 13	7 of 13	109	Western St. Charles Flood Protection	GO Bonds	\$5,100,000	\$0	80	80	\$0	\$5,100,000
8 of 13	8 of 13	109	Lockport to Larose Hurricane Protection Levee	GO Bonds	\$5,000,000	\$10,000,000	\$20,000,000	\$20,000,000	\$20,000,000	\$75,000,000
9 of 13	9 of 13	109	North Shore, Lake Pontehartrain Flood Protection (PO-74)	GO Bonds	\$5,000,000	80	80	08	80	\$5,000,000
10 of 13	10 of 13	109	St. Mary Backwater Flooding Protection (AT-024)	GO Bonds	\$5,000,000	\$60,000,000	\$60,000,000	\$0	\$0	\$125,000,000
11 of 13	11 of 13	109	Deleambre-Avery Canal Storm Surge Protection (TV-57)	GO Bonds	\$3,000,000	\$15,000,000	\$8,000,000	80	80	\$26,000,000
12 of 13	12 of 13	109	Southwest Coastal Louisiana Project (LA-20)	GO Bonds	\$1,050,000	\$17,500,000	\$17,500,000	\$17,500,000	\$1,133,340,600	\$1,186,890,600
13 of 13	13 of 13	100	South Central Coastal Plan (TV-54)	GO Bonds	\$5,000,000	\$34,347,317	\$34,347,317	\$34,347,317	\$1,952,897,049	\$2,060,939,000

TOTALS:	\$377,152,888	\$265,847,317	\$286,626,817	\$218,126,817	\$6,052,230,649	\$7,199,984,488









Coastal Protection and Restoration Authority P.O. Box 44027 Baton Rouge, LA 70804

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