Appendix A

Ongoing Protection and Restoration Project Summaries

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ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
BERM	Riverine Sand Mining/Scofield Island Restoration	BA-0040	BH	N/A	PLAQUEMINES	606	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 CWPPRA but constructed using Berm to Barrier funds.	2
BERM	Shell Island East	BA-0110	BH	N/A	PLAQUEMINES	626	N/A	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 reestablish productive habitat to Bastian Bay and the surrounding area. Shell Island East was constructed to a length of approximately 2.8 miles, a dune elevation of +8.0 feet NAVD88, a marsh elevation of +2.5 feet NAVD88, and a total fill area of 626 acres.	2
BERM	Emergency Barrier Berms	N/A	OT	N/A	PLAQUEMINES, SAINT BERNARD	1417	N/A	2011	$251,000,000	In response to the *Deepwater Horizon* oil spill of 2010, the State of Louisiana constructed approximately 16 miles of sand berms along several sections of the State's barrier islands both east and west of the Mississippi River. The objective of this project was to provide a barrier to oil and minimize the potential impact of the oil spill to thousands of acres of fragile barrier islands and wetlands in coastal Louisiana. Approximately 16 miles of barrier berm were constructed along existing and relic barrier islands in the Chandeleur Islands (Reach E4- 47,000 LF), Shell Island (Reach W9- 9,000 LF), Pelican Island (Reach W9- 12,700 LF), and Scofield Island (Reach W10-14,755 LF). Sediment placed in Reaches W8, W9, and W10 was subsequently utilized in barrier island restoration projects BA-110, BA-38, and BA-40, respectively.	1, 2
CDBG	Lafitte Area Levee Repair	BA-0082	HP	HUD	JEFFERSON	N/A	4	Pending	$500,000	This project will repair damages to the existing levees in the Fisher Basin Area. This damage was caused by heavy equipment and vehicles used on the levee for flood fighting activities during Ike and Gustav. This project will provide for a 4 inch lift on approximately a 5 mile stretch of levee.	2
CDBG	Rosethorne Wetland Assimilation Project	BA-0083	HR	HUD	JEFFERSON	334	N/A	Inactive	$1,093,769	The Rosethorne treatment facility currently discharges treated municipal effluent into Bayou Barataria. This project was intended to utilize secondarily treated municipal effluent diverted from the Rosethorne treatment facility, to restore and sustain coastal wetland habitats.	2
CDBG	Bayou Lafourche Fresh Water District - Walter S. Lemann Memorial Pump Station Renovations	BA-0084	FD	HUD	ASCENSION	N/A	N/A	2014	$3,194,355	This project will replace two of the existing pumps and motors at the Walter S. Lemann Pump Station. This project will also install an emergency generator to operate the pump station during power outages.	2, 3A
CDBG	Madisonville Bulkhead	PO-0087	SP	HUD	ST TAMMANY	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 Tchefuncte River at the Madisonville Marina.	1
CDBG	St. Tammany Parish Watershed Management Study	PO-0151	HR	HUD	ST TAMMANY	N/A	N/A	N/A	$1,363,233	This project involves a planning study to evaluate the feasibility of watershed management measures in St. Tammany Parish.	1
CDBG	Falgout Canal Road Levee	TE-0063	FD	HUD	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 freshwater to flow under the existing roadway and proposed levee. The goal of the project is to restore project-area salinities to levels that are favorable for fresh and intermediate marshes and to improve the efficiency of freshwater flow within the basin area by reestablishing the historical north-south flow.	3A
CDBG	Cut-Off/Pointe Aux Chene Levee	TE-0078	HP	HUD	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 Bayou and tie into the existing levee systems on each end.	3A
CDBG	Franklin Floodgate Sinkable Barge and Pump Station (Phase 1)	TV-0052-1	HP	HUD	ST MARY	N/A	0.2	2012	$4,591,380	This project involves the construction of a sinkable barge structure on Franklin Canal to prevent storm surge from inundating the town of Franklin.	3B
CDBG	Franklin Floodgate Sinkable Barge and Pump Station (Phase 2)	TV-0052-2	HP	HUD	ST MARY	N/A	0.2	2015	$2,148,866	This project will construct a pump station adjacent to the sinkable barge structure on Franklin Canal (constructed in Phase 1 of the project) to prevent storm surge from inundating the town of Franklin.	3B
CDBG	Flood Control Structure at Boston Canal (Deauthorized)	TV-0058	HP	HUD	VERMILION	N/A	N/A	Deauthorized	$5,800,000	This project involves a flood control structure at the intersection of Boston Canal and the GIWW, which could be closed in the event of a hurricane or tropical storm.intersection of Boston Canal and the GIWW, that could be closed in the event of a hurricane or tropical storm.	3B
CDBG	Front Ridge Chenier Terracing/Protection	TV-0060	TE	HUD	VERMILION	40	N/A	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
CDBG	Bayou Tigre Flood Control Project	TV-0067	HP	HUD	VERMILION	N/A	0.1	Pending	$6,343,862	This project involves the implementation of flood control measures in Bayou Tigre.	4
CIAP	Morgan City Industrial Road	AT-0005	OT	USFWS	ST MARY	N/A	N/A	2015	$1,247,000	The project is a road alignment that begins at the First Street floodgate in Morgan City, LA. The alignment will proceed along the unprotected side of the floodwall a distance of 1857 feet. And end at the Port of Morgan City's north gate. The project goal is to reduce the truck traffic through the residential neighborhoods by rerouting the traffic through the proposed realigned road. The preliminary project benefit is to provide more road access to the industrial facilities and the museum through the proposed new road, and decrease the traffic in the residential area.	3B
CIAP	Atchafalaya Long Distance Sediment Pipeline	AT-0015	OT, MC	USFWS	TERREBONNE	N/A	N/A	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
CIAP	Lake Salvador Shoreline Protection (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
CIAP	East Grand Terre	BA-0030	BH	USFWS	PLAQUEMINES	683	N/A	2010	$25,426,247	The project goal is to restore 2.8 miles and 620 acres of barrier shoreline and 450 acres of marsh by dredging 3.3 million cubic yards of offshore material and rebuilding the island. The project was designed under the CWPPRA Program and constructed under the CIAP program.	2
CIAP	Barataria Land Bridge Dedicated Dredging (CIAP)	BA-0036	MC	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
CIAP	Long Distance Mississippi River Sediment Pipeline	BA-0043-EB	OT, MC	USFWS	LAFOURCHE, JEFFERSON, PLAQUEMINES	371	N/A	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 ridge.	2
CIAP	Caminada Headlands	BA-0045	BH	USFWS	LAFOURCHE	730	N/A	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
CIAP	LA 1 Improvements - Fourchon to Leeville Bridge (CIAP)	BA-0055	OT	USFWS	LAFOURCHE	N/A	N/A	2010	$33,000,000	This project is located 60 miles south of New Orleans in lower Lafourche Parish between Leeville and Port Fourchon. The project involves the construction of a 5 mile long, two lane elevated highway (two, 12 ft lanes and two, 8 ft shoulders). The Phase IA project connects to the Phase IB and Phase IC projects (in Leeville) by relocating LA 1 on a new alignment.	2
CIAP	Fringe Marsh Repair	BA-0058	MC	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
CIAP	Mississippi River Water Reintroduction into Bayou Lafourche - BLFWD	BA-0161	FD	USFWS	ASSUMPTION, LAFOURCHE	Not Available	N/A	2016	$20,000,000	This project is estimated to allow for the continued dredging of a 1,000 cfs channel for an additional 7 - 12 miles of Bayou Lafourche. Overall project features identified for implementation include a receiving intake structure at the point of diversion in the Mississippi River; a pump/siphon system with a combined discharge capacity of 1,000 cfs; a discharge settling pond/sediment basin in Bayou Lafourche at Donaldsonville; modification of weir structures; bank stabilization along Bayou Lafourche; monitoring stations; and dredging of Bayou Lafourche. Increasing the flow down Bayou Lafourche by 1,000 cfs has been modeled to benefit approx. 120,000 - 130,000 acres in the Terrebonne and Barataria Basins through reductions in the salinities and/or nourishment of wetlands with the introduction and distribution of sediment and nutrients from the river.	2, 3A
CIAP	Shoreline Protection Cat Island	BA-0162-CAT	SP	USFWS	PLAQUEMINES	40	N/A	Inactive	$1,200,000	This project will construct of a series of submerged wave breaks surrounding the existing remnants of the Cat Islands in order to protect the oil damaged shores along the existing island remnants from further wave damage while also collecting sediment in order to naturally rebuild the degraded infrastructure of the islands. The project was designated Inactive following the completion of design activities.	2
CIAP	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 protect the oil damaged shores along the existing island remnants from further wave damage while also collecting sediment in order to naturally rebuild the degraded infrastructure of the islands.	2
CIAP	Bayou Lamoque Floodgate Removal (Inactive)	BS-0013-EB	FD	USFWS	PLAQUEMINES	660	N/A	Inactive	$2,070,559	This project involves the removal of floodgates to allow unimpeded flow of freshwater through the water control structures.	1
CIAP	FIFI Island Restoration	CIAPFIFI	SP	USFWS	JEFFERSON	126	N/A	2003	$751,406	This project provides protection for approximately 100 acres of existing island habitat (Grand Isle & Fifi Island) by the installation of approximately 10,000 linear feet of rock shore protection. An additional $999,500 was contributed from the CIAP of 2001 for the construction and design of this project.	2
CIAP	Marsh Creation via Beneficial Use (Phase 1 0 (Black Lake)	CS-0035-EB	DM	USFWS	CAMERON	300	N/A	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
CIAP	Trosclair Road Repairs	CS-0047	OT	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 approximately 8 miles long and connects State Highway 27/82 from Cameron to State Highway 82 to Oak Grove.	4

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	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 geotextile fabric and armored with stone rip-rap. The rebuilt bank-line will help to diminish storm surge as well as reduce saltwater intrusion. This project was funded by the CIAP of 2001.	3A
CIAP	Performance Evaluation - Barataria Land Bridge Biological Monitoring	LA-0012-2	OT	USFWS	JEFFERSON	N/A	N/A	N/A	$432,618	This research study will be conducted on the Barataria Land Bridge Dedicated Dredging Project (BA-36) and will assess the effect of dredged sediment application on soil-vegetation-hydrologic dynamics within deteriorating interior brackish marshes.	2
CIAP	Performance Evaluation - Freshwater Bayou	LA-0012-3	OT	USFWS	VERMILION	N/A	N/A	N/A	$286,029	This study focuses on the expected vertical elevation change of the dredge slurry fill due to immediate and long term settlement and consolidation. Work performed: reviewing previous analyses performed to help improve our ability to predict settlement and consolidation; researching new methods, models, and techniques that could improve how CPRA design teams predict settlement and consolidation. Additionally, field samples and construction 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	OT	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	OT	USFWS	JEFFERSON, LAFOURCHE	N/A	N/A	N/A		Research to be conducted on the Caminada Headland in order to quantify the amount of consolidation 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	OT	USFWS	COASTWIDE	N/A	N/A	N/A	$813,512	The Borrow Area Monitoring and Management (BAMM) was initiated to understand the evolution of borrow pits for restoration projects (inshore, nearshore, and offshore) over time, with a particular focus on the infilling (rates and types of sediment) and gradient of the pit-slopes as well as potential dredge impacts. The study involves the collection of geophysical, geotechnical and water quality data from several borrow areas to understand not only the above oviectives but also the hypoxic conditions vis-à-vis depth of cut of borrow area.	COASTWIDE
CIAP	Coastal Forest Conservation Initiative	LA-0013	PP, OT	USFWS	COASTWIDE	40000	N/A	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	N/A	2009	$8,500,000	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.	4
CIAP	Mississippi River Delta Strategic Planning - SSPM Expansion	MR-16-SSPM	OT	USFWS	EAST BATON ROUGE	N/A	N/A	2017	$13,520,000	This project involves the construction of a new expanded Small Scale Physical Model (SSPM) capable of modeling smaller flows and with an increased area of coverage in comparison to the previous SSPM. The project will also include the construction of a new facility to house the model as well as facilitate the use of the model for public outreach the educational efforts. The project will be a valuable educational and research tool to providing insight and qualitative understanding of critical aspects of the impacts of major diversions of water and sediments, future conditions, and navigation impacts.	1, 2, 3A
CIAP	Violet Diversion	PO-0035-EB	FD	USFWS	ST BERNARD	13200	N/A	N/A	$1,170,982	This project investigates the diversion of freshwater from the Mississippi River into Lake Borgne to freshen Mississippi Sound, Central Wetlands, and Biloxi Marsh areas. The Feasibility Study for this project is being done as part of the MRGO Ecosystem Restoration FS.	1
CIAP	Orleans Land Bridge SP & Marsh Creation	PO-0036-EB	SP	USFWS	ORLEANS	140	N/A	2013	$20,860,000	This project provides shoreline protection on the northwest rim of Lake Borgne west of Alligator Point.	1
CIAP	East LaBranche Shoreline Protection	PO-0043	SP	USFWS	ST CHARLES	Not Available	N/A	2015	$3,753,816	Through various funding mechanisms, including CWPPRA and CIAP, all but approximately 18,000 linear feet of the East LaBranche shoreline has been protected. Saint Charles Parish has acquired $1,753,816 of CIAP funding to construct 1,400 linear feet of shoreline protection (PO-43 East LaBranche Shoreline Protection). The State has contributed additional $2,000,000 in CIAP funding to construct shoreline protection for the most critical areas.	1
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 alternative to chlorine to treat effluent at the SWBNO's East Bank Sewer Treatment Plant.	1
CIAP	Central Wetlands - Riverbend	PO-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 Wetlands. This would allow vegetation to prosper once again in the area, and would also save St. Bernard Parish the cost of running a sewer line from the Oxidation plant to the Munster Plant.	1
CIAP	Central Wetlands - EBSTP to A2	PO-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 salt water intrusion from MRGO and thus attempt to replenish the once thriving Central Wetlands. The project involves piping treated effluent from the EBSTP to St. Bernard parish and vegetative plantings to nourish and sustain marsh.	1
CIAP	Central Wetlands Demonstration Expansion	PO-0073-3	HR	USFWS	ORLEANS	17.2	N/A	2016	$4,500,000	The Central Wetlands Demonstration Expansion project would restore up to 17.2 acres of critical wetlands in the area designated A-1 using wetlands assimilation of treated wastewater effluent and/or beneficial use of ash/biosolids from the East Bank Wastewater Treatment Plant, other sediment from SWBNO operations. Once the cell has been completed, the intent is to promote an ecological diversity with indigenous planting from cypress/tupelo trees to floating marsh islands. Marsh islands shall encourage the development of habitat for wetlands birds and fish.	1
CIAP	Living Shoreline	PO-0148	SP	USFWS	ST BERNARD, JEFFERSON, ORLEANS	5340	N/A	2017	$26,500,000	The primary project involves the construction of bioengineered oyster reefs along coastal fringe marsh in St. Bernard Parish. The installation will take place from Eloi Point to the mouth of Bayou La Loutre around Lydia Point and Paulina Point extending around the southern shore of Treasure Bay. Other related Living Shoreline projects are in Plaquemines Parish and Jefferson Parish.	1,2
CIAP	Rainey Audubon Wildlife Sanctuary Earthen Terraces	RAINEY	MC	USFWS	VERMILION	640	N/A	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 piling the spoil on one side of the borrow area. An additional $391,763 was contributed from the CIAP of 2001.	3B
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 deteriorated channel banks and stabilize/armor selected critical lengths of deteriorated channel banks with hard shoreline stabilization materials.	3B
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 erosion along the bank of Freshwater Bayou Canal and to protect the interior wetlands from saltwater intrusion, increased tidal exchange and wake-induced erosion. This will be achieved by constructing a rock dike along critical areas of the eastern and western banks of the canal.	3B
CIAP	Port of Iberia Bridge Replacement - Port Road over Commercial Canal	TV-0028	OT	USFWS	IBERIA	N/A	N/A	2013	$625,792	This project involves the replacement of the bridge on Port Road over Commercial Canal at the Port of Iberia. 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 ports bridges and roadways.	3B
CIAP	Port of Iberia Bridge Replacement - David Dubois Road over Commercial Canal	TV-0030	OT	USFWS	IBERIA	N/A	N/A	2013	$1,058,013	This project involves the replacement of the bridge on David Dubois Road over Commercial Canal at the Port of Iberia. The Port of Iberia handles a substantial amount of OCS produced products and the large equipment used in transporting these products takes a major toll on the port's bridges and roadways.	3B
CIAP	Acadiana Regional Airport Street Improvements - Admiral Doyle Drive	TV-0031	OT	USFWS	IBERIA	N/A	N/A	2016	$1,114,942	This project involves patching and overlaying 5,310 feet (about 1 mile) of Admiral Doyle Road around the Acadiana Regional Airport in Iberia Parish from its intersection with LA 3212 to the end of the four lane section. The project provides improved access to both the airport and the Port of Iberia, both of which support OCS facilities and commerce.	3B

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CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
CWPPRA	Atchafalaya Sediment Delivery	AT-0002	SD	NMFS	ST MARY	2232	N/A	1998	$2,532,147	The objective of this project is to enhance natural delta growth by re-opening Natal Channel and Castille Pass. Natal Channel was re-established with a 120-foot wide, 10-foot deep, 8,800-foot long channel and Castille Pass with a 190-foot wide, 10-foot deep, 2,000-foot long channel. Material dredged (700,925 cubic yards) as a result of construction was strategically placed at elevations mimicking natural delta lobes.	3B
CWPPRA	Big Island Mining	AT-0003	DM	NMFS	ST MARY	1560	N/A	1998	$7,077,404	The project includes creating a new western delta lobe behind Big Island to enhance the accretion of land beyond the west bank of the Atchafalaya River. Construction included dredging of a main stem and five branch channels designed to mimic natural channel bifurcations. Dredged material was strategically placed at elevations mimicking natural delta lobes. Re-opening the channels is allowing continued natural sediment transport 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.	3B
CWPPRA	GIWW (Gulf Intracoastal Waterway) to Clovelly Hydrologic Restoration	BA-0002	HR	NRCS	LAFOURCHE	175	N/A	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 weir, and the rebuilding of low overflow banks that have eroded away) in eastern Lafourche Parish to restore the area to the hydrologic conditions that prevailed historically.	2
CWPPRA	Naomi Outfall Management	BA-0003-C	OM	NRCS	JEFFERSON	634	N/A	2002	$2,285,972	The project manages the outfall of the existing eight siphons by controlling the movement of the diverted waters. The siphons divert sediment-laden water from the Mississippi River into the west bank wetlands to retard saltwater intrusion and enhance wetland productivity.	2
CWPPRA	West Pointe a la Hache Outfall Management (Deauthorized)	BA-0004-C	HR	NRCS	PLAQUEMINES	646	N/A	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	ST CHARLES	N/A	N/A	1998	$5,856,506	The objective of this project is to maintain the shoreline along a section of Lake Salvador and help re-establish the natural hydrology of interior marsh. Phase I of the project was constructed to demonstrate the effectiveness of four separate types of segmented breakwaters in a poor soil environment. Phase II of the project included the installation of 8,000 feet of continuous rock structure along the western section of the lake.	2
CWPPRA	Fourchon Hydrologic Restoration (Deauthorized)	BA-0018	HR		LAFOURCHE	N/A	N/A	Deauthorized	$7,703	The goal 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	N/A	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 hydrologic conditions of the area and reduce shoreline erosion. The goal was partly accomplished through constructing a series of water control structures. Construction unit 4 consists of 4,180 lf of rock rip rap revetment, 15,110 lf of concrete sheetpile wall, plugs and marsh creation.	2
CWPPRA	Bayou Perot/Bayou Rigolettes Marsh Restoration (Deauthorized)	BA-0021	MC	NMFS	JEFFERSON	1065	N/A	Deauthorized	$20,964	This project was authorized to protect deteriorated intermediate-to-brackish marsh located between Lake Salvador and Little Lake by using dredged material to re-establish the shoreline. Due to an unstable and rapidly eroding site, the project was deemed unfeasible and was officially deauthorized by the CWPPRA Task Force in January of 1998.	2
CWPPRA	Bayou L'Ours Ridge Hydrologic Restoration (Deauthorized)	BA-0022	HR	NRCS	LAFOURCHE	737	N/A	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 through a series of canal closures and two water control structures. The project was officially deauthorized by the CWPPRA Task Force in April 2003 because of landrights issues.	2
CWPPRA	Barataria Bay Waterway West Side Shoreline Protection	BA-0023	SP	NRCS	JEFFERSON	1789	N/A	2000	$3,304,787	The project objective is to rebuild the west bank of the Dupree Cut to protect 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	N/A	N/A	Deauthorized	$481,802	The goal of the project is to reduce saltwater intrusion and to nourish existing marsh. This will be accomplished by diverting water through a siphon from the Mississippi River to adjacent wetlands. This project was officially deauthorized by the CWPPRA Task Force in October 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	N/A	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 siphon pipes. This project was reauthorized on the 11th PPL as BA-25b.	2
CWPPRA	Mississippi River Reintroduction Into Bayou Lafourche (Deauthorized)	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 nutrient laden Mississippi River water via Bayou Lafourche. This project was originally authorized on the 5th PPL as BA-25. This project was officially deauthorized by the Breaux Act Task Force in October 2007; however, engineering and design will be continued by the CPRA using state funds.	2
CWPPRA	Barataria Bay Waterway East Side Shoreline Protection	BA-0026	SP	NRCS	JEFFERSON	217	N/A	2001	$5,224,477	The objective of this project is to rebuild the banks of the BBWW to protect the adjacent marsh from excessive tidal action and saltwater intrusion. The project consists of 17,600 (3.3 miles) of levee constructed with dredged material from the BBWW; and 17,600 (3.3 miles) of rock armor.	2
CWPPRA	Barataria Basin Landbridge Shoreline Protection, Phases 1 and 2	BA-0027	SP	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 shoreline of Bayou Perot and the southeastern shoreline of Bayou Rigolettes. 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 wall, rock and light 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 consist sof 31,500 feet of foreshore rock dike with a lightweight aggregate core or concrete sheetpile and will incorporate "fish dips" and openings at historic natural channels to eliminate shoreline erosion and deterioration of the Barataria landbridge.	2
CWPPRA	Vegetative Plantings of a Dredged Material Disposal Site on Grand Terre Island	BA-0028	VP	NMFS	JEFFERSON	127	N/A	2001	$526,314	This project involved the installation of vegetative plantings on previously constructed marsh and dune platform.	2
CWPPRA	LA Highway 1 Marsh Creation (Deauthorized)	BA-0029	MC	EPA	LAFOURCHE	146	N/A	Deauthorized	$250,257	The objective of this project was to create marsh habitat in a large open water area adjacent to Louisiana Highway 1 using dredged material from two proposed borrow areas. This project was officially deauthorized by the CWPPRA Task Force in February of 2005 because it was determined to be infeasible.	2
CWPPRA	East/West 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 habitat and extend the island's life expectancy. Dredged material will be used to create dune and marsh habitat on East Grand Terre Island. This project was constructed using CIAP 2007 funds.	2
CWPPRA	Delta Building Diversion at Myrtle Grove (Transferred)	BA-0033	SD	USACE	JEFFERSON, PLAQUEMINES	8891	N/A	Transferred	$327,422	The objective of this project is to divert Mississippi River water and sediment for the creation of new emergent wetlands. The project will involve: installation of gated box culverts on the west bank of the Mississippi River in the vicinity of Myrtle Grove; dedicated dredging from the Mississippi River to create marsh in the vicinity of Bayou Dupont, the Barataria Bay Waterway, and the Wilkinson Canal; or a combination of these actions. This project was transferred to the LCA Program.	2
CWPPRA	Mississippi River Reintroduction Into Northwest Barataria Basin (Transferred)	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 hydrologic regime and add nutrients to adjacent swamp areas. The project would utilize a freshwater diversion/siphon from the Mississippi River to northwest Barataria Basin wetlands with pumping of spoil banks and placement of culverts under LA Highway 20. The scope of the project was changed and the revised project was re-numbered BA-34-2.	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 impoundment effects that are currently serious impediments to swamp health	2
CWPPRA	Pass Chaland to Grand Bayou Pass	BA-0035	BH	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	MC	USFWS	JEFFERSON	2800	N/A	2010	$36,281,893	Approximately 5,368,000 cubic yards of material was placed in two contained marsh creation areas to construct approximately 1,211 acres of intertidal marsh at a final elevation of +2.5' NAVD 88. Approximately 3,901,000 cubic yards of material was placed in adjoining fill areas to nourish 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 erosion. This project protects approximately 21,000 feet of Little Lake shoreline, create 488 acres of intertidal wetlands, and nourish an additional 532 acres of fragmented, subsiding marsh.	2
CWPPRA	Pelican Island and Pass La Mer to Chaland Pass Restoration	BA-0038	BH, VP	NMFS	PLAQUEMINES	1117	N/A	2012	$52,893,695	The objectives of this project are to create barrier island habitat, enhance storm-related 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 Mer to Chaland Pass Restoration segment was completed in 2007.	2

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
CWPPRA	Mississippi River Sediment Delivery System - Bayou Dupont	BA-0039	MC	EPA	JEFFERSON, PLAQUEMINES	577	N/A	2010	$31,631,908	The goal of this project is to create/restore 493 acres of brackish marsh by delivering via pipeline, dredged material from the Mississippi River to an adjacent area within the Barataria Basin, and planting marsh vegetation.	2
CWPPRA	Rivering Sand Mining/Scofield Island Restoration (Transferred)	BA-0040	BH	NMFS	PLAQUEMINES	234	N/A	Transferred	$40,851,272	The goals of this project are to repair breaches and tidal inlets int eh shoreline, reinforce the wxisting shoreline with sand, and increase the island width with back barrier marsh creation to increase longevity. This project was transferred to the Berm to Barrier Program for construction.	2
CWPPRA	South Shore of the Pen Shoreline Protection and Marsh Creation	BA-0041	SP, MC	NRCS	JEFFERSON	211	N/A	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 shore of The Pen and Bayou Dupont. Dedicated dredging was used to create approximately 74 acres of marsh, and nourish an additional 107 acres of marsh, within the triangular area bounded by the south shore of The Pen, the Barataria Bay Waterway (Dupre Cut), and the Creole Gas Pipeline Canal.	2
CWPPRA	Lake Hermitage Marsh Creation	BA-0042	TE, SP, MC	USFWS	PLAQUEMINES	438	N/A	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
CWPPRA	West Pointe a la Hache Marsh Creation	BA-0047	MC	NRCS	PLAQUEMINES	203	N/A	2015, Transferred	$15,671,708	The goal of this project is to create/nourish marsh using sediment hydraulically dredged from the Mississippi River and pumped via pipeline to the project area. The project was constructed as part of BA-0042.	2
CWPPRA	Bayou Dupont Marsh and Ridge Creation Project	BA-0048	MC	NMFS	JEFFERSON	317	N/A	2016	$38,324,646	This marsh and ridge creation project will nourish approximately 118 acres of marsh and create 15 acres of maritime ridge by long distance pumping of Mississippi River sediment.	2
CWPPRA	Grand Liard Marsh and Ridge Restoration	BA-0068	BH	NMFS	PLAQUEMINES	502	N/A	2015	$41,872,785	This project will create 328 about acres of marsh, nourish about 140 acres of marsh and build about 20,000 lf of ridge.	2
CWPPRA	Cheniere Ronquille Barrier Island Restoration (Transferred)	BA-0076	BH	NMFS	PLAQUEMINES	398	N/A	Transferred	$51,145,769	The project goal is to maintain shoreline integrity and create and restore saline marsh on Chenier Ronquille. The project involves dedicated dredging from nearshore Gulf deposits to creat saline marsh in open water areas and nourish existing marshes and barrier shoreline in project area. Intensive dune plantings in the project area were also proposed. This project was transferred to NRDA for construction.	2
CWPPRA	Northwest Turtle Bay Marsh Creation	BA-0125	MC	USFWS	JEFFERSON	407	N/A	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 Little Lake. Existing canal spoil banks, emergent marsh, and limited segments of containment dikes will be used to guide the distribution of the dredged material. Containment dikes will be degraded as necessary to reestablish hydrologic connectivity with adjacent wetlands.	2
CWPPRA	Bayou Dupont Sediment Delivery- Marsh Creation 3	BA-0164	MC	EPA	PLAQUEMINES, JEFFERSON	302	N/A	Pending	$39,529,163	This project involves dedicated dredging from the Mississippi River to create and nourish 415 acres of marsh.	1
CWPPRA	Caminada Headlands Back Barrier Marsh Creation	BA-0171	MC	EPA	LAFOURCHE	430	N/A	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 dredged from the Gulf of Mexico.	2
CWPPRA	Bayou Grande Cheniere Marsh and Ridge Restoration	BA-0173	MC	USFWS	PLAQUEMINES	264	N/A	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 nourish marsh along the eastern side of the Bayou Grande Cheniere ridge, as well as create 12 acres of forested coastal ridge habitat.	2
CWPPRA	Caminada Headlands Back Barrier Marsh Creation Increment 2	BA-0193	BH	EPA	JEFFERSON, LAFOURCHE	444	N/A	Pending	$25,977,605	In addition to having one of the highest shoreline retreat rates in Louisiana, Caminada Headland has suffered significant shoreline losses due to recent hurricanes. As the beach and dune continue to migrate landward, overwashed sediment is lost into newly formed open water areas. Caminada Headland deterioration threatens thousands 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 nourish 444 acres of back barrier intertidal marsh and create a platform upon which the beach and dune can migrate. This project will work synergistically with existing Caminada Headland dune and back barrier marsh projects.	2
CWPPRA	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
CWPPRA	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 is to create approximately 251 acres of marsh and nourish approximately 266 acres of marsh (517 acres total) with dredged material from Barataria Bay.	2
CWPPRA	Caernarvon Diversion Outfall Management	BS-0003-A	OM	NRCS	PLAQUEMINES	802	N/A	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 Mississippi River through the Caernarvon Freshwater Diversion Structure.	1
CWPPRA	White's Ditch Outfall Management (Deauthorized)	BS-0004-A	OM	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 landrights, the project was officially deauthorized by the CWPPRA Task Force in January of 1998. This project was reauthorized on the 14th PPL as BS-12.	1
CWPPRA	Grand Bay Crevasse (Deauthorized)	BS-0007	SD	USACE	PLAQUEMINES	N/A	N/A	Deauthorized	$65,747	Project goals included construction of a rock-lined opening through the rocks at the head of the Jurjevich Canal in order to establish a pathway for freshwater and sediment into Grand Bay and the adjacent marshes to create, restore, and enhance wetlands in the area. The project was officially deauthorized by the CWPPRA Task Force in July of 1998 because of landrights issues.	1
CWPPRA	Upper Oak River Freshwater Siphon (Deauthorized) Phase 1	BS-0009	FD	NRCS	PLAQUEMINES	N/A	N/A	Deauthorized	$56,476	The primary goal of this project was to reverse the trend of interior marsh deterioration in the project area due to saltwater intrusion through installation of a freshwater siphon 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 landrights issues.	1
CWPPRA	Delta Building Diversion North of Fort St. Philip (Deauthorized)	BS-0010	SD	USACE	PLAQUEMINES	543	N/A	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 tie into the Mississippi River.	1
CWPPRA	Delta Management at Fort St. Philip	BS-0011	SNT	USFWS	PLAQUEMINES	267	N/A	2006	$3,199,948	The objective of the project is to enhance the delta-building process occurring due to the crevasse at Fort St. Philip. Six artificial crevasses were constructed to divert freshwater and sediment into areas currently restricted by spoil banks or natural ridges and linear vegetated terraces were constructed to enhance sediment retention and reduce wave energy in one of the receiving bays.	1
CWPPRA	White Ditch Resurrection and Outfall Management (Deauthorized)	BS-0012	OM, FD	NRCS	PLAQUEMINES	189	N/A	Deauthorized	$1,595,677	The goal of this project was to promote utilization of freshwater, 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.	1
CWPPRA	Bayou Lamoque Freshwater Diversion (Transferred)	BS-0013	FD	EPA	PLAQUEMINES	620	N/A	Transferred	$9,509	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 shallow open water habitat, and decrease mean salinity in the project area.This CWPPRA project was transferred to the CIAP Program.	1
CWPPRA	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 Mississippi River water into adjacent wetlands through an uncontrolled diversion with a capacity of approximately 10,000 cfs, restoring natural deltaic growth and habitats. The project was deauthorized by the CWPPRA Task Force in 2013.	1
CWPPRA	South Lake Lery Shoreline and Marsh Restoration	BS-0016	VP, MC	USFWS	PLAQUEMINES	652	N/A	Pending	$33,716,987	This project involves dredging sediment to create 396 acres of marsh and restore approximately 32,000 feet of the southern Lake Lery shoreline.	1
CWPPRA	Bertrandville Siphon (Deauthorized)	BS-0018	FD	EPA	PLAQUEMINES	1613	N/A	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
CWPPRA	Terracing and Marsh Creation South of Big Mar	BS-0024	MC, TE	USFWS	PLAQUEMINES	383	N/A	Pending	$22,774,368	This project involves the construction of approximately 65,000 linear feet of terraces (37 acres) with in-situ materialto reduce fetch and turbidity and capture suspended sediment. Sediments will be hydraulically dredged from Lake Lery and pumped via pipeline to create and restore approximately 334 acres of marsh in the project area.	2
CWPPRA	Cameron-Creole Maintenance	CS-0004-A	HR	NRCS	CAMERON	2602	N/A	1997, 2011	$4,644,371	The project area falls within the Cameron-Creole watershed management area, which has been adversely impacted by saltwater intrusion and loss of sediments due to channelization and water diversion of the Calcasieu River. The project providse maintenance for the existing 19 miles of levee and five major structures which make up the Cameron-Creole Watershed Project.	4
CWPPRA	Brown Lake Hydrologic Restoration (Deauthorized)	CS-0009	MM	NRCS	CALCASIEU, CAMERON	916	N/A	Deauthorized	$1,097,928	The project investigated the restoration of the natural hydrology of the Brown Lake area. The project was deauthorized by the CWPPRA Task Force.	4
CWPPRA	Sweet Lake/Willow Lake Hydrologic Restoration	CS-0011-B	SP	NRCS	CAMERON	247	N/A	2002	$3,929,152	The project objectives are to re-establish the shoreline (hydrologic boundary) between Sweet Lake and the Gulf Intracoastal Waterway (GIWW), to reduce lake turbidity and tidal exchange, and to halt erosion and trap sediment needed to rebuild marsh along the northern and northwestern shorelines of Sweet Lake. This project includes construction of rock embankments on the GIWW to close off the lakes, vegetation plantings to reduce erosion, and construction of earthen terraces combined with vegetation plantings in open water areas to promote revegetation.	4
CWPPRA	Cameron Creole Plugs	CS-0017	HR	USFWS	CAMERON	865	N/A	1997	$418,539	The project goal is to restore historic water circulation patterns within the Cameron-Creole Watershed. This objective will be accomplished by slowing the rapid movement of saline waters that enter the watershed from Calcasieu Lake. The project consisted of the installation of two sheetpile plugs in the lakeshore borrow canal.	4

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
CWPPRA	Sabine National Wildlife Refuge Erosion Protection	CS-0018	SP	USFWS	CAMERON	5542	N/A	1995	$1,602,656	The goal of this project is to protect 13,000 acres of fresh marsh from deterioration associated with the anticipated failure of the existing west levee. The original design was to reconstruct 5.5 miles of eroded levee. The project was redesigned to include 1,000 feet of levee reconstruction and 5.5 miles of rock armor. Vegetation plantings were used to reduce erosion from boat traffic.	4
CWPPRA	West Hackberry Vegetative Planting Demonstration	CS-0019	VP	NRCS	CAMERON	N/A	N/A	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 bullrush (Schoenoplectus californicus). In addition, wave-stilling hay bale fences were utilized to protect the vegetation plantings.	4
CWPPRA	East Mud Lake Marsh Management	CS-0020	MM	NRCS	CAMERON	1520	N/A	1996	$6,036,741	The project involves the creation of a hydrologic regime conducive to restoration, protection, and enhancement of the Mud Lake area using various types of water control structures and vegetative plantings. Structural components include culverts with flap gates, two variable crest weirs, three earthen plugs, overflow bank and repair of existing levee.	4
CWPPRA	Highway 384 Hydrologic Restoration	CS-0021	MM	NRCS	CAMERON	650	N/A	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 located north of the Gulf Intracoastal Waterway (GIWW) approximately 10 miles northwest of Hackberry in Calcasieu Parish, Louisiana. The goal of this project is to extend the rock armored shoreline stabilization by one mile adjacent to the GIWW to prevent continued erosion of the GIWW levee and to prevent the encroachment of the GIWW into the marshes north of the project area.	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	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.	4
CWPPRA	Perry Ridge Shore Protection	CS-0024	SP	NRCS	CALCASIEU	1203	N/A	1999	$2,289,090	The project reduces tidal scour, wave action from boats, and other excessive energy impacts on interior marshes and the possibility of saltwater intrusion by placing rip-rap along low areas on the northern spoil bank of the GIWW from Perry Ridge to Vinton Drainage Canal.	4
CWPPRA	Plowed Terraces Demonstration	CS-0025	SNT	NRCS	CAMERON	N/A	N/A	2000	$325,641	This objective of this demonstration project is to develop and demonstrate a non-traditional procedure for constructing earthen terraces in shallow open water areas. Thirty-eight earthen terraces served as wave-stilling, sediment-trapping structures and provided a medium base for the establishment of emergent vegetation.	4
CWPPRA	Compost Demonstration (Deauthorized)	CS-0026	MC	EPA	CAMERON	N/A	N/A	Deauthorized	$255,390	This project was authorized to evaluate the effectiveness of using tree trimmings as compostable material, using compost amended material in providing a growth medium for emergent vegetation, and determining settlement rates of the compost amended materials and tree trimmings. The project was officially deauthorized by the CWPPRA Task 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 hydrologic changes including reduced freshwater inflow, increased magnitude and duration of tidal fluctuations, increased salinities, higher water levels, and excessive water exchange. This project included the construction of spoil banks, weirs, plugs, and culverts designed to allow freshwater from the Gulf Intracoastal Waterway (GIWW) into the wetlands and to create a hydrologic head that increases freshwater retention time and reduces saltwater intrusion.	4
CWPPRA	Sabine Refuge Marsh Creation, Cycles 4-5	CS-0028-4-5	MC	USACE	CAMERON	460	N/A	2015	$11,838,649	The Sabine Refuge Marsh Creation Cycles 4-5 Project consists of the placement of dredged material from routine maintenance of the Calcasieu River Ship Channel via temporary pipeline into a marsh creation site within the Sabine National Wildlife 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 Cycles 1-3 Project consists of the placement of dredged material from routine maintenance of the Calcasieu River Ship Channel via temporary pipeline into a marsh creation site within the Sabine National Wildlife Refuge.	4
CWPPRA	Black Bayou Culverts Hydrologic Restoration	CS-0029	HR	NRCS	CALCASIEU	540	N/A	2007	$16,899,059	This project involved the construction of 10 box culverts (10 ft x 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	N/A	2001	$2,256,216	The project consists of installing rock along the bank of the GIWW to prevent further erosion.	4
CWPPRA	Holly Beach Sand Management	CS-0031	SP	NRCS	CAMERON	330	N/A	2003	$14,130,233	The purpose of the project is to protect existing coastal wetlands by restoring and maintaining the integrity and functionality of the remaining Cameron-Creole beach ridge. This objective was accomplished through beach renourishment, installation of sand fencing, vegetation plantings, and monitoring of the shoreline response. This project was originally authorized on the 9th PPL as the complex project: Holly Beach Project, CS-01.	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 restore area marsh, and restore the historical hydrologic regime to the Sabine National Wildlife Refuge. This was to be accomplished using shoreline protection, terraces, vegetation plantings, and water control structures to reduce tidal scour, shoreline erosion, turbidity, and salinities. 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	N/A	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 freshwater 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 portion of the historic meandering channel of Kelso Bayou and provide direct protection to Louisiana State Highway 27, the region's only northward hurricane evacuation route. The project has been transferred to the Chenier Plain Coastal Protection and Restoration Authority.	4
CWPPRA	Cameron-Creole Watershed Grand Bayou Marsh Creation	CS-0054	MC	USFWS	CAMERON	534	N/A	Pending	$22,918,987	Project goals include creating 609 acres of brackish marsh and nourishing 7 acres of brackish marsh with dedicated dredged material from Calcasieu Lake to benefit fish and wildlife resources in the Cameron Prairie National Wildlife Refuge and adjacent brackish marshes of the Calcasieu Lake estuary.	4
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 habitat and creating terraces in order to reduce wave/wake erosion.	4
CWPPRA	Cameron Meadows Marsh Creation and Terracing	CS-0066	MC, TE	NMFS	CAMERON	401	N/A	Pending	$28,935,820	This project involves the construction of 334 acres of marsh and the reestablishment of Old North Bayou via dredged material from the Gulf of Mexico. The project also involves the construction of 35,000 linear feet of terraces (18 acres) to reduce wind generated wave fetch.	4
CWPPRA	No Name Bayou Marsh Creation and Nourishment	CS-0078	MC	NMFS	CAMERON	497	N/A	Pending	$28,090,745	The project goal is to create and/or nourish approximately 533 acres of emergent saline marsh within the Cameron-Creaole watershed along the Calcasieu Lake rim using sediment from upland disposal sites of the Calcasieu River.	4
CWPPRA	Oyster Lake Marsh Creation and Nourishment	CS-0079	MC	NOAA	CALCASIEU	661	N/A	Pending	$37,542,910	The primary goals of the project are to create and nourish approximately 661 acres of saline marsh. Sediment would be mined from the offshore disposal area used for CS-59 and placed in the project area to create approximately 476 acres and nourish approximately 185 acres of saline marsh. Half of the created acres will be planted with smooth cordgrass vegetation.	4
CWPPRA	Nutria Harvest for Wetland Restoration Demonstration	LA-0003-A	OT	USFWS	COASTWIDE	N/A	N/A	2003	$806,220	This project enables the Louisiana Department of Wildlife and Fisheries to establish an economic incentive program to trap and control nutria, which are contributing to coastal wetland loss, by promoting the consumption of nutria meat.	COASTWIDE
CWPPRA	Coastwide Nutria Control Program	LA-0003-B	MM	NRCS	COASTWIDE	14963	N/A	N/A	$68,738,156	Project goal is to harvest approximately 400,000 nutria tails annually. Damage inflicted by nutria is estimated to be reduced 25 to 49%, and damaged areas to reduce by 25,000 to 49,000 acres.	COASTWIDE
CWPPRA	Floating Marsh Creation Demonstration	LA-0005	OT	NRCS	TERREBONNE	N/A	N/A	2006	$1,080,891	The 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.	3A
CWPPRA	Shoreline Protection Foundation Improvements Demonstration	LA-0006	SP	USACE	VERMILION	0	N/A	2006	$1,055,000	The purpose of the project is to investigate the potential to improve the foundation of rock dikes. The project was paired with the South White Lake Shoreline Protection (ME-22) project.	4
CWPPRA	Bioengineered Oyster Reef Demonstration	LA-0008	SP	NMFS	CAMERON	4.5	N/A	2012	$2,316,692	This project is intended to evaluate the Oysterbreak structure to prevent beach erosion and increase habitat diversity associated with natural oyster reefs.	4
CWPPRA	Sediment Containment System for Marsh Creation Demonstration	LA-0009	MC	NRCS	ST CHARLES	N/A	N/A	2013	$2,323,073	This demonstration project utilizes an unconventional 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 alternatives to rock shoreline protection methods by testing several different products along highly erosive shorelines in areas that are not conducive to construction with rock.	2, 3B
CWPPRA	Coastwide Planting	LA-0039	VP	NRCS	COASTWIDE	779	N/A	N/A	$12,689,725	The goals of this project are to facilitate a consistent and responsive planting effort in coastal Louisiana that is flexible enough to routinely plant on a large scale and be able to rapidly respond to "hot spots" following storms or other damaging events.	COASTWIDE
CWPPRA	Shoreline Protection, Preservation, and Restoration (SPPR) Panel	LA-0280	SP	NOAA	COASTWIDE	N/A	N/A	N/A	$2,669,829	The proposed demonstration project would stabilize existing shoreline features and attenuate shoreline retreat and potentially enhance interior marshes and an accretion platform behind the structure. The goal of this project is to provide a cost effective construction alternative to rip rap for shoreline protection.	COASTWIDE

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
CWPPRA	Salvinia Weevil Propagation Facility	LA-0284	OT	USFWS	COASTWIDE	26	N/A	N/A	$5,052,748	The goal of this project is to operate a weevil propagation facility in Jeanerette, like that previously operated by LSU in Houma, to make weevils 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 erosion, 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	Dewitt-Rollover Vegetative Plantings Demonstration (Deauthorized)	ME-0008	VP	NRCS	VERMILLION	102	N/A	1994; Deauthorized	$92,147	This demonstration project's purpose was to investigate the ability of vegetation plantings of smooth cordgrass (Spartina alterniflora) to colonize a newly accreted mudflat, thereby establishing a vegetation buffer between the Gulf of Mexico and coastal wetlands. This project was officially deauthorized by the CWPPRA Task Force in February 1996 because no plants remained.	4
CWPPRA	Cameron Prairie National Wildlife Refuge Shoreline Protection	ME-0009	SP	USFWS	CAMERON	640	N/A	1994	$1,227,123	This project protects the emergent wetlands of the Cameron Prairie National Wildlife Refuge adjacent to the GIWW, enhances the emergent wetlands protected by constructing approximately 2.5 miles of rock dike parallel to the existing spoil bank, and terminates the encroachment of the GIWW into the refuge.	4
CWPPRA	Humble Canal Hydrologic Restoration	ME-0011	HR	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	SP	NRCS	IBERIA	N/A	N/A	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 if California bulrush (Schoenoplectus californicus) is effective at damping high energy wave action. The project was officially deauthorized by the CWPPRA Task Force in October of 1998 and is no longer monitored.	4
CWPPRA	Freshwater Bayou Bank Stabilization	ME-0013	SP	NRCS	VERMILION	511	N/A	1998	$8,913,357	The goal of this project is to stop erosion along the bank of Freshwater Bayou Canal and to protect the interior wetlands from saltwater intrusion, increased tidal exchange and wake-induced erosion. This was achieved by constructing a rock dike along critical areas of the eastern and western banks of the canal. The project was extended for another 20 years.	4
CWPPRA	Pecan Island Terracing	ME-0014	TE	NMFS	VERMILION	437	N/A	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 earthen terraces to reduce wave action. Terraces were constructed in a staggered gap formation and planted with smooth cordgrass (Spartina alterniflora) and California bulrush (Schoenoplectus californicus).	4
CWPPRA	Freshwater Introduction South of Highway 82	ME-0016	HR	USFWS	IBERIA	296	N/A	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	N/A	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 conveyance channels. The project was subsequently deauthorized 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 50,691 feet from Beach Prong to Joseph Harbor.	4
CWPPRA	Grand-White Lakes Landbridge Protection	ME-0019	SP	USFWS	CAMERON	213	N/A	2004	$3,536,830	The purpose of the project was to prevent the coalescence 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	N/A	Pending	$23,873,346	The objective of this project is a reduction in salinity in target marshes via fresh water introduction from Upper Mud Lake via the Dr. Miller Canal and culverts under Hwy 82. Restoration of 402 acres of brackish marsh from shallow open water and nourishment of 51 acres of marsh (total 453 acres) in two cells (176 and 277 acres) via 1.55 M cubic yards of dredged material from a Gulf of Mexico borrow site.	4
CWPPRA	Grand Lake Shoreline Protection, Tebo Point	ME-0021	SP	NRCS	CAMERON	495	N/A	Pending	$11,305,616	This project involves the construction of a rock dike to protect the south shoreline of Grand Lake from Catfish Lake to Tebo Point and perform long-term O&M on this dike as well as a separate portion from Superior Canal to Catfish Lake (constructed using CIAP 2007 funds).	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	98	N/A	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 Louisiana Gulf Shoreline Nourishment and Protection	ME-0024	OT	USACE	IBERIA	888	N/A	Pending/On Hold	$17,144,234	The goal of the project is to nourish 47,900 linear feet of gulf shoreline with sediment between Dewitt Canal and Big Constance Lake, and create approximately 421 acres of marsh platform, mud flat and shallow water, extending approximately 384 feet seaward. The project is on hold until the Phase I CSA template is finalized 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	N/A	Pending	$26,691,833	The purpose of this project is to create new wetland habitat, restore degraded marsh, and reduce wave erosion. Material dredged from the Gulf of Mexico will be utilized to create and nourish approximately 420 acres of marsh. Retention levees will be degraded and approximately 11,756 linear feet of tidal creeks will be constructed by tracking marsh buggies on the marsh platform for estuarine fisheries access. Smooth cordgrass plugs will be planted on 20-foot centers throughout the area (total 49,268 plants).	4
CWPPRA	West Bay Sediment Diversion	MR-0003	SD	USACE	PLAQUEMINES	9831	N/A	2003	$50,863,503	The project consists of a conveyance channel for large-scaled uncontrolled diversion of freshwater and sediments from the Mississippi River. The diversion channel was designed to be constructed in two phases: (1) Initial construction of an interim channel to accommodate a discharge of 20,000 cubic feet per second (cfs) at the 50% duration stages in the River and marsh development areas, and (2) Modification of the interim diversion channel design to accommodate full-scale diversion of 50,000 cfs at the 50% duration stage on the River after a period of intensive monitoring of diversion operations.	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 invert was lowered to -4.0 feet NGVD. In addition, an existing earthen channel leading from the armored gap to the open water area beyond the bank were enlarged. Approximately 125,000 cubic yards of material were excavated from the outfall channel and cast adjacent to the channel in a manner conducive to marsh nourishment.	1
CWPPRA	Pass-a-Loutre Crevasse (Deauthorized)	MR-0007	SD	USACE	PLAQUEMINES	1043	N/A	Deauthorized	$119,835	The objective of this project was to create and restore marsh in the Mississippi River Delta. This was to be accomplished through construction of a crevasse on the left descending bank of the Mississippi River between Pass-a-Loutre and Raphael Pass. The project was officially deauthorized by the CWPPRA Task Force in July of 1998 due to high costs attributed to relocating underground utilities in the area.	1
CWPPRA	Beneficial Use of Hopper Dredged Material Demonstration (Deauthorized)	MR-0008	DM	USACE	PLAQUEMINES	N/A	N/A	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 currently a shallow open-water pond. Due to design problems, the project was officially deauthorized by the CWPPRA Task Force in November of 2000.	2
CWPPRA	Delta Wide Crevasses	MR-0009	SD	NMFS	PLAQUEMINES	2386	N/A	1999	$4,728,318	The objective of this project is to promote the formation of emergent freshwater and intermediate marsh in shallow, open water areas of the Pass-a-Loutre Wildlife Management Area and the Delta National Wildlife Refuge by either cleaning existing splays or creating new ones.	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 use of dredged material from routine maintenance of the Mississippi River Navigation Channel by using a dustpan hydraulic dredge to create and restore adjacent marsh. Approximately 40 acres of deteriorated marsh that had converted 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 (Deauthorized)	MR-0011	FD	USACE	ST BERNARD	N/A	N/A	Deauthorized	$83,556	This demonstration project was intended to show the effectiveness of using a hydraulic pipeline dredge to provide increased sediment through a diversion structure or siphon. Monitoring 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	MC	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 sediment trap located between miles 5 and 1 above Head of Passes in the Mississippi River. The proposed sediment trap will consist of an area dredged out of the riverbed that will force 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	N/A	Deauthorized	$976,580	The objective of the project was to create vegetated wetlands in shallow open water areas in Benneys Bay. The project would divert sediment in an effort to create, nourish, and maintain approximately 16,982 acres of fresh to intermediate marsh over the 20-year project life. The project was deauthorized by the CWPPRA Task Force in 2013.	1

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
CWPPRA	Spanish Pass Diversion (Deauthorized)	MR-0014	SD	USACE	PLAQUEMINES	433	N/A	Deauthorized	$310,151	The goal of this project was to create emergent marsh by diverting Mississippi River water and sediment from Grand Pass into open water receiving areas. The project was deauthorized by the CWPPRA Task Force in 2013.	2
CWPPRA	Venice Ponds Marsh Creation and Crevasses (Inactive)	MR-0015	MC	EPA	PLAQUEMINES	511	N/A	Inactive	$23,442,176	The goals of the project are to create, maintain, nourish, and replenish existing deteriorating wetlands through dedicated dredging, hydrologic restoration, crevasse construction, and crevasse enhancement. The project was designated as Inactive by the CWPPRA Task Force in 2013.	2
CWPPRA	Fritchie Marsh Restoration	PO-0006	HR	NRCS	ST TAMMANY	1040	N/A	2001	$2,201,674	The purpose of the project is to achieve remediation of the causes of wetland loss in the area and to improve habitat for wildlife and fisheries by increasing the flow of fresh water into the marsh and managing the outfall.	1
CWPPRA	Violet Freshwater Distribution (Deauthorized)	PO-0009-A	HR	NRCS	ST BERNARD	247	N/A	Deauthorized	$128,626	The objective of the outfall management plan was to optimize the use of freshwater and sediment supplied by the existing siphons by managing water flow through the area. This would be accomplished by reducing channelized flow and routing the diverted flow across marshes or through shallow water areas instead of through larger channels. This project was officially deauthorized by the CWPPRA Task Force in 2001 because of landrights issues.	1
CWPPRA	Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1	PO-0016	HR	USFWS	ORLEANS	3800	N/A	1996	$1,680,193	The Lake Pontchartrain Hurricane Protection levee isolates units 3 and 4 of the Bayou Sauvage Wildlife Refuge from the surrounding marsh complex and establishes a large freshwater impoundment. This project established a means for removing the excess water during the spring and summer.	1
CWPPRA	Bayou LaBranche Wetland Creation	PO-0017	MC	USACE	ST CHARLES	487	N/A	1994	$3,934,000	The project involved dredging sediments from Lake Pontchartrain to create vegetated wetlands in an area roughly bounded by I-10, Lake Pontchartrain, Bayou Labranche.	1
CWPPRA	Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 2	PO-0018	HR	USFWS	ORLEANS	1280	N/A	1997	$1,692,552	The construction of U.S. Highway 90, canals, railroad lines, and Lake Pontchartrain hurricane protection levees has impounded the marsh in the project area. Project features consist of two 36-inch pumps, which operate to maintain water levels at 0.5 feet above or below marsh elevation to promote vegetative growth in the project area.	1
CWPPRA	Mississippi River Gulf Outlet (MRGO) Disposal Area Marsh Protection	PO-0019	MM	USACE	ST BERNARD	755	N/A	1999	$318,445	The objective of this project is to preserve vegetated wetlands by repairing the lateral and rear dikes of the Mississippi River Gulf Outlet (MRGO) disposal areas. Repairs to a 28,000 linear-foot dike, in conjunction with the installation of metal box weirs with a single 40-inch pipe, were used to control and divert water flow to prevent the perched marshes from draining.	1
CWPPRA	Red Mud Demonstration (Deauthorized)	PO-0020	MC	EPA	ST JOHN THE BAPTIST	N/A	N/A	Deauthorized	$520,129	This project was authorized to determine whether red mud, produced as a by-product of removing alumina from bauxite, could be utilized as marsh-creation material in combination with compost and marsh sediment. Construction of experimental units was initiated in 1997; however, due to unexpected problems with fill material, liners, and contaminants in the water source, the project was officially deauthorized by the CWPPRA Task Force in August 2001.	1
CWPPRA	Eden Isles East Marsh Restoration (Deauthorized)	PO-0021	HR	NMFS	CAMERON	1453	N/A	Deauthorized	$39,025	The project intended to restore 2,536 acres of drained fastlands by actively managing water levels to maximize marsh creation. There was a change in landowners of the project area during the planning phase of this project. Consequently, the project was officially deauthorized by the CWPPRA Task Force in January 1998.	1
CWPPRA	Bayou Chevee Shoreline Protection	PO-0022	SP	USACE	ORLEANS	212	N/A	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.	1
CWPPRA	Hopedale Hydrologic Restoration	PO-0024	HR	NMFS	ST BERNARD	106	N/A	2005	$2,281,287	This project is designed to abate site-specific wetland loss by replacing collapsed culverts installed in the 1950s near Yscloskey, Louisiana. Replacement of these structures would allow more rapid drainage of the area, improve fisheries access, reduce wetland loss rates, and protect approximately 3,086 acres of marsh.	1
CWPPRA	Bayou Bienvenue Pump Station Diversion and Terracing (Deauthorized)	PO-0025	MC	NMFS	TERREBONNE	442	N/A	Deauthorized	$212,152	This project intended to combine the use of existing pump stations with the construction of a diversion channel, water control structures, and earthen terraces planted with smooth cordgrass (Spartina alterniflora). This would force the flow of freshwater and nutrients through a deteriorated marsh area to abate site-specific marsh loss. The project was officially deauthorized by the CWPPRA Task Force in April 2002 because construction was determined to be too costly.	1
CWPPRA	Opportunistic Use of the Bonnet Carre Spillway (Deauthorized)	PO-0026	FD	USACE	PLAQUEMINES	177	N/A	Deauthorized	$83,932	This project intended to abate high salinity stress on the vegetated wetlands surrounding Lake Pontchartrain. This objective was to be accomplished through the removal of pins from the Bonnet Carre' Spillway structure during high flow periods in the Mississippi River to allow no more than 4,000 cubic feet per second of water to flow from the river into Lake Pontchartrain. This project was officially deauthorized by the CWPPRA Task Force in October of 2007 due to uncertainty of benefits and lack of landowner support.	1
CWPPRA	Chandeleur Islands Marsh Restoration	PO-0027	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 Hurricane Georges in 1998 through vegetation plantings. The overwash areas, which encompass 364 acres, are located at 22 sites along the Chandeleur Sound side of the island chain and were planted with smooth cordgrass (Spartina alterniflora).	1
CWPPRA	LaBranche Wetlands Terracing, Planting, and Shoreline Protection (Deauthorized)	PO-0028	VP	NMFS	ST CHARLES	489	N/A	Deauthorized	$306,836	Located along Lake Pontchartrain, the project intended to reduce emergent marsh loss along the shoreline by restoring and creating 489 acres through marsh terracing, shoreline protection, and vegetation planting. This project was officially deauthorized by the CWPPRA Task Force in October 2007.	1
CWPPRA	Lake Borgne Shoreline Protection	PO-0030	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 helps protect the communities of Shell Beach, Yscloskey, and Hopedale from direct exposure to lake wave energy and storm surges. The goal was accomplished through construction of a continuous nearshore rock breakwater.	1
CWPPRA	Lake Borgne and MRGO Shoreline Protection (Deauthorized)	PO-0032	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 (MRGO) by constructing a rock dike along the Lake Borgne shoreline and the northern bank of the MRGO. The Lake Borgne segment of this project was constructed by the USACE with funds from the 3th supplemental, and the remaining portion of the project was deauthorized by the CWPPRA Task Force.	1
CWPPRA	Goose Point/Point Platte Marsh Creation	PO-0033	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 northern shoreline of Lake Pontchartrain.	1
CWPPRA	Alligator Bend Marsh Restoration and Shoreline Protection	PO-0034	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 Alligator Point, using rock dikes and vegetative plantings.	1
CWPPRA	LaBranche East Marsh Creation	PO-0075	MC	NRCS	ST CHARLES	715	N/A	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
CWPPRA	Bayou Bonfouca Marsh Creation	PO-0104	MC	USFWS	ST TAMMANY	424	N/A	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 Bayou Bonfouca with sediment pumped from Lake Pontchartrain.	1
CWPPRA	LaBranche Central Marsh Creation	PO-0133	MC	NRCS	ST CHARLES	731	N/A	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.	1
CWPPRA	Shell Beach South Marsh Creation	PO-0168	MC	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 MRGO. 343 ac of new marsh would be created and 291 ac nourished using fill material from Lake Borgne.	1
CWPPRA	New Orleans Landbridge Shoreline Stabilization and Marsh Creation	PO-0169	MC, BS	USFWS	ORLEANS	271	N/A	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
CWPPRA	Fritchie Marsh Creation and Terracing	PO-0173	MC	NOAA	ST TAMMANY	366	N/A	Pending	$27,020,763	The project goal is to create and/or nourish approximately 340 acres of emergent brackish marsh and create 36,610 feet of earthen terraces (26 emergent acres) in the Fritchie Marsh area between the city of Slidell and the Rigolets using sediment from Lake Pontchartrain.	1
CWPPRA	Bayou La Loutre Ridge Restoration and Marsh Creation	PO-0178	MC	NRCS	ST BERNARD	167	N/A	N/A	$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	1
CWPPRA	St. Catherine Island Marsh Creation and Shoreline Protection	PO-0179	MC	USFWS	ORLEANS	219	N/A	N/A	$25,324,715	The primary goals of this project are to protect a portion of the Lake Pontchartrain shoreline and restore/protect interior marsh habitat with the placement of dredged material	2
CWPPRA	Grand Bayou Hydrologic Restoration (Deauthorized)	TE-0010	HR	USFWS	LAFOURCHE	199	N/A	Deauthorized	$1,452,357	The objective of the project was to maintain emergent wetlands in this area by providing supplemental freshwater, nutrients, and sediment from the Atchafalaya River via the Gulf Intracoastal Waterway (GIWW). Project features included a water control structure on Bayou Pointe au Chien just south of its junction with St. Louis Canal; the relief structure on Grand Bayou, and the pipeline structure on Grand Bayou Canal. The project has been deauthorized by the CWPPRA Task Force.	3A
CWPPRA	Falgout Canal Planting Demonstration	TE-0017	VP	NRCS	TERREBONNE	N/A	N/A	1996	$206,522	For this demonstration project, smooth cordgrass (Spartina alterniflora) suited to the salinity and habitat type of the Falgout Canal area was planted along the canal and protected by six types of wave-stilling devices.	3A
CWPPRA	Timbalier Island Planting Demonstration	TE-0018	VP	NRCS	TERREBONNE	N/A	N/A	1996	$300,492	For this demonstration project, approximately 7,390 linear feet of sand fences were installed and vegetation suited to the salinity and habitat type of Timbalier Island was planted in several areas on the island to trap sand and buffer wind and wave energy.	3A

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
CWPPRA	Lower Bayou LaCache Hydrologic Restoration (Deauthorized)	TE-0019	MM	NMFS	TERREBONNE	N/A	N/A	Deauthorized	$99,625	The project would have reduced marsh loss rates and improved fish and wildlife habitat quality by restoring natural north-south water exchange with estuarine water bodies and by reducing flow through the numerous dredged canals in the area. Because of problems with landrights and navigation, the project was officially deauthorized by the CWPPRA Task Force in 1996.	3A
CWPPRA	Isles Dernieres Restoration East Island	TE-0020	BH	EPA	TERREBONNE	449	N/A	1999	$8,762,416	The project objective is to restore the coastal dunes and wetlands of the Eastern Isles Dernieres barrier island chain. Approximately 3.9 million cubic yards of sand were dredged from Lake Pelto and used to build a retaining dune which was then hydraulically filled to create an elevated marsh platform. Sand fences and vegetation were also installed to stabilize the sand and minimize wind-driven transport.	3A
CWPPRA	Point Au Fer Canal Plugs	TE-0022	VP, MC	NMFS	TERREBONNE	375	N/A	1997	$5,544,367	This project is intended to reduce saltwater intrusion into the Point au Fer marshes without reducing freshwater back flooding from the Atchafalaya River. Phase I of this project, completed in 1997, involved the plugging of two major natural gasfoil pipeline canals on the eastern half of the island. Under Phase II, a rock shoreline stabilization structure was constructed in 2000 along a thin stretch of beach separating the Gulf of Mexico from the Mobil Canal.	3B
CWPPRA	West Belle Pass Headland Restoration	TE-0023	SP	USACE	LAFOURCHE	474	N/A	1998	$6,826,754	This project reduces the encroachment of Timbalier Bay into the marshes on the west side of Bayou Lafourche with the use of dedicated dredged materials to create 184 acres of marsh on the west side of Belle Pass. A water control structure was placed in the Evans Canal, and plugs on other canals.	3A
CWPPRA	Isles Dernieres Restoration Trinity Island	TE-0024	BH, MC	EPA	TERREBONNE	776	N/A	1999	$10,774,974	The project objectives are to restore the Trinity Island (dunes and marsh) wetlands of the Isles Dernieres chain, enhance the physical integrity of the island, and protect the lower Terrebonne estuary.	3A
CWPPRA	East Timbalier Island Sediment Restoration	TE-0025	BH	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 mining of 2.7 million cubic yards of sediment and placement of the material in three embayments along the landward shoreline of East Timbalier 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	509	N/A	1999	$6,810,133	The objectives of this project are to restore the marshes west of Lake Chapeau, re-establish the hydrologic separation of the Locust Bayou and Alligator Bayou watersheds, and re-establish the natural drainage patterns within the Lake Chapeau area. To accomplish this material dredged from Atchafalaya Bay was used to create marsh, oil field access canals were plugged, and spoil banks were gapped. An estimated 850,000 cubic yards of material were hydraulically dredged from Atchafalaya Bay and spread to a thickness of approximately 2 feet to create 160 acres of marsh.	3B
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 marshes on Whiskey Island. The project created 523 acres of back island marsh and filling in the breach at Coupe Nouvelle (124 acres). The initial vegetation planting with smooth cordgrass (Spartina alterniflora) on the bay shore was completed in July 1998 and additional vegetation seeding/planting was carried out in Spring 2000.	3A
CWPPRA	Brady Canal Hydrologic Restoration	TE-0028	HR	NRCS	TERREBONNE	297	N/A	2000	$7,593,752	The objective of the project is to maintain the fragile, highly-fragmented transitional marshes between the fresh and estuarine zones by enhancing freshwater, sediment, and nutrient delivery into the area.	3B
CWPPRA	Raccoon Island Breakwaters Demonstration	TE-0029	BH	NRCS	TERREBONNE	N/A	N/A	1997	$1,795,388	This project protects the newly refurbished beaches and wetlands on Raccoon Island and protect back barrier and mainland marshes with six segmented breakwaters.	3A
CWPPRA	East Timbalier Island Sediment Restoration	TE-0030	BH	NMFS	TERREBONNE	215	N/A	2000	$7,600,150	The project goal is to strengthen and increase the life expectancy of East Timbalier Island by placing dredged material along its landward shoreline. Additional rock has been placed on the existing breakwater in front of the island, which will help protect the created area from erosion.	3A
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 marshes. 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 officially deauthorized by the CWPPRA Task Force in 2001.	3A
CWPPRA	North Lake Boudreaux Basin Freshwater Introduction and Hydrologic Management	TE-0032-A	FD	USFWS	TERREBONNE	603	N/A	Pending	$26,875,959	The project aims to introduce freshwater from the HNC through an enlarged Bayou Pelton channel across Bayou Grand Caillou and through a gated channel.	3A
CWPPRA	Bayou Boeuf Pump Station (Deauthorized)	TE-0033	HR	EPA	TERREBONNE	N/A	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 navigation needs generally covered by WRDA. The project components consisted of implementing a long-term water management strategy for the Verret Basin, and evaluating a long-term river water delivery strategy from Atchafalaya River to Terrebonne wetlands. The project was officially deauthorized by the CWPPRA Task Force in 1998.	3A
CWPPRA	Penchant Basin Natural Resources Plan, Increment 1	TE-0034	FD, HR, SP	NRCS	TERREBONNE	675	N/A	2011	$17,628,814	The objective of the project is to divert freshwater flow from north-western to south-eastern sub project areas coupled with protection measures to reduce inundation of fragile marsh areas in overall Penchant Basin in Terrebonne Parish.	3B
CWPPRA	Marsh Creation East of the Atchafalaya River - Avoca Island (Deauthorized)	TE-0035	MC	USACE	ST MARY	434	N/A	Deauthorized	$66,869	The project consisted of the beneficial use of dredged material from the "Crew Boat Chute" and placing it in the Avoca Island area. Although the project would have benefited 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 CWPPRA Task Force in 1998.	3B
CWPPRA	Thin Mat Floating Marsh Enhancement Demonstration	TE-0036	MC	NRCS	TERREBONNE	N/A	N/A	2000	$538,101	The objective of this project is to induce the development of thick-mat, continuously floating marsh from a thin-mat flotant using various combinations of treatments including fertilization, herbivory reduction, and transplanting healthy, thick-mat marsh plugs into the thin-mat flotant. Project monitoring is intended to determine the effects of water movement and sediment availability on these marshes.	3B
CWPPRA	New Cut Dune and Marsh Restoration	TE-0037	BH, MC	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 (1974) and subsequently enlarged by Hurricane Juan (1985) and Hurricane Andrew (1992). The project involved the creation of barrier island dunes and marsh habitat and lengthening the structural integrity of the eastern Isles Dernieres by restoring the littoral drift and adding sediment into the near-shore system.	3A
CWPPRA	South Lake Decade Freshwater Introduction	TE-0039	SP	NRCS	TERREBONNE	202	N/A	2011	$5,223,806	This project involves the construction of a water control structure in the southern bank of Lake DeCade. The strucure increases the amount of Atchafalaya River water and sediment introduced into the marshes south of the lake. In addition, shoreline protection was implemented adjacent to the proposed structure, and a weir in Lapeyrouse Bayou was removed.	3A
CWPPRA	Timbalier Island Dune and Marsh Restoration	TE-0040	BH, MC	EPA	TERREBONNE	663	N/A	2004	$16,662,199	Timbalier Island is migrating rapidly to the west/northwest; therefore, the western end of Timbalier Island is undergoing lateral migration by spit-building processes at the expense of erosion along the eastern end. The objective of this project is to restore the eastern end of Timbalier Island by the direct creation of beach, dunes, and marsh.	3A
CWPPRA	Mandalay Bank Protection Demonstration	TE-0041	SP	USFWS	TERREBONNE	N/A	N/A	2003	$1,732,498	This demonstration project is intended to develop new techniques for protecting and restoring organic soils, which can be easily eroded. Intact banks and breakthroughs were treated to determine the cost-effectiveness of demonstrated approaches. The project allows the evaluation of several low-cost solutions for restoring habitat in blowout areas and preventing bank erosion.	3A, 3B
CWPPRA	Move Existing Atchafalaya Water to Central Terrebonne (Transferred)	TE-0042	HR	USFWS	ST MARY	N/A	N/A	Transferred	N/A	This project is intended to reduce marsh loss through the improved distribution of excess freshwater seasonally available in the Gulf Intracoastal Waterway (GIWW). The project will benefit deteriorating marshes in central and/or eastern portions of the Terrebonne Basin. This project was transferred to the LCA program.	3A
CWPPRA	GIWW Bank Restoration of Critical Areas in Terrebonne	TE-0043	SP	NRCS	TERREBONNE	345	N/A	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 with hard shoreline stabilization materials. A portion of this project was constructed using CIAP 2007 funds and the remainder of the project was constructed under CWPPRA.	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 Ridge), which provides a hydrologic barrier between brackish and low-salinity habitats. Project features include marsh creation, the planting of smooth cordgrass (Spartina alterniflora) on the shoreline, the construction of various plugs, and repairing a fixed-crest weir along Bayou Raccourci.	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	TE-0046	SP	USFWS	TERREBONNE	145	N/A	2008	$17,893,813	The purpose of this project is to create and nourish about 200 acres of marsh along the western shoreline of Lake Boudreaux to protect the shoreline from erosion due to direct exposure to lake wave energy and to restore interior marsh lost to subsidence and saltwater intrusion.	3A
CWPPRA	Ship Shoal: Whiskey West Flank Restoration (Inactive)	TE-0047	BH	EPA	TERREBONNE	500	N/A	Inactive	$1,599,810	The objective of this project is to rebuild dunes and a marsh platform on the west flank of Whiskey Island through the deposition of dredged material transported from Ship 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 CWPPRA 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 sediment from the Gulf of Mexico to create marsh on the land side of the island.	3A

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
CWPPRA	Avoca Island Diversion and Land Building (Deauthorized)	TE-0049	FD, MC	USACE	ST MARY	N/A	N/A	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	Whiskey Island Back Barrier Marsh Creation	TE-0050	BH	EPA	TERREBONNE	270	N/A	2010	$30,414,083	The goal of this project is to recreate a back barrier marsh platform on which the barrier island can migrate in order to increase the longevity of the previously restored and natural portions of the island. Heavy construction was complete in the fall of 2009. Project features included construction of 316 acres of back barrier marsh, 5,800 linear feet of tidal creeks, three 1-acre tidal ponds, and 13,000 linear feet of sand dune on the gulf side beach shore.	3A
CWPPRA	Madison Bay Marsh Creation and Terracing	TE-0051	MC, TE	NMFS	TERREBONNE	1019	N/A	Pending	$39,821,438	The goals of this project are to create and nourish marsh and associated edge habitat and to promote conditions conducive to the growth of submerged aquatic vegetation. The proposed terraces will reduce the wave erosion 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 life.	3A
CWPPRA	West Belle Pass Barrier Headland Restoration	TE-0052	BH	NMFS	LAFOURCHE	389	N/A	2012	$39,422,093	This project involves the reestablishment of the West Belle headland 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
CWPPRA	Enhancement of Barrier Island Vegetation Demo	TE-0053	VP	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 salt marsh vegetation. The project focuses specifically on enhancing the establishment and growth of transplants of both dune vegetation [bitter panicum (Panicum amarum) and sea oats (Uniola paniculata)] and marsh vegetation [smooth cordgrass (Spartina alterniflora) and black mangrove (Avicennia germinans)].	3A
CWPPRA	Central Terrebonne Freshwater Enhancement	TE-0066	MC, HR	NRCS	TERREBONNE	456	N/A	Pending	$17,890,120	The project will reestablish historic hydrologic and salinity conditions by reducing the artificial intrusion of Gulf marine waters via the Grand Pass into the Central Terrebonne marshes while enhancing the influence of the Atchafalaya River waters into the area.	3A
CWPPRA	Lost Lake Marsh Creation and Hydrologic Restoration	TE-0072	HR, MC	USFWS	TERREBONNE	749	N/A	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 water bodies, 2) increase the delivery of fresh water, sediments, and nutrients into marshes north and west of Lost Lake, 3) reduce fetch in open water areas via construction of a terrace field.	3A, 3B
CWPPRA	Terrebonne Bay Marsh Creation - Nourishment	TE-0083	MC	USFWS	TERREBONNE	353	N/A	Pending	$28,664,401	Project goals are to create 365 acres of intertidal marsh in shallow open water and nourish 299 acres of fragmented marsh within the project area reducing water exchange between Terrebonne Bay and interior lakes during tidal and small storm events and to reduce erosion along 16,000 ft of the northern Terrebonne Bay shoreline.	3A
CWPPRA	North Catfish Lake Marsh Creation	TE-0112	MC	NRCS	LAFOURCHE	265	N/A	Pending	$30,325,016	Sediments will be hydraulically dredged from Catfish Lake and pumped via pipeline to create approximately 415 acres of marsh habitat and nourish an additional 251 acres of marsh habitat.	3A
CWPPRA	Island Road Marsh Creation & Nourishment	TE-0117	MC	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 hydraulically pumped from a borrow source near Lake Felicity. Half 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 life.	3A
CWPPRA	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 sediment from an offshore borrow site in the Gulf of Mexico. This project will create new marsh habitat and increase the longevity of existing habitat. The project will also help protect the people and infrastructure of Port Fourchon.	3A
CWPPRA	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 11,726 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	Vermilion River Cutoff Bank Protection	TV-0003	SP	USACE	VERMILION	202	N/A	1996	$2,047,479	The project design includes protecting the east side of the Vermilion River Cutoff with rock to prevent further erosion; hardening the points on existing land bridges on the west bank of the Cutoff with rock; and constructing sediment trapping fences on the Vermilion Bay side to help stabilize and protect the land bridge from wave action in the Bay.	3B
CWPPRA	Cote Blanche Hydrologic Restoration	TV-0004	HR	NRCS	ST MARY	2223	N/A	1998	$10,093,902	The primary objectives of the project are to reduce future shoreline loss from wave erosion, reduce excessive tidal fluctuations and rapid tidal exchange to prevent scouring of interior marsh, develop a hydrologic regime conducive to sediment and nutrient deposition, and to re-establish vegetation in eroded areas.	3B
CWPPRA	Boston Canal/Vermilion Bay Bank Protection	TV-0009	SP	NRCS	VERMILION	378	N/A	1995	$1,043,748	The project involves stabilizing 15 miles of Vermilion Bay shoreline and preventing further regression of the Boston Canal banks. A strip of Vermilion Bay shoreline approximately 25 feet wide by 15 miles long was planted with single stems of Spartina alterniflora at 3 foot intervals.	3B
CWPPRA	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 Freshwater Bayou Canal. The project was subsequently designated as Inactive by the CWPPRA Task Force.	3B
CWPPRA	Little Vermilion Bay Sediment Trapping	TV-0012	TE	NMFS	VERMILION, IBERIA	441	N/A	1999	$886,030	This project is designed to optimize the retention of sediment from the Atchafalaya River to create new marsh areas in Little Vermilion Bay. Dredged material was placed to create emergent marsh, thereby protecting the existing shoreline from wind-induced wave erosion.	3B
CWPPRA	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.	3B
CWPPRA	Marsh Island Hydrologic Restoration	TV-0014	HR	USACE	IBERIA	408	N/A	2001	$5,143,323	The objective of the project is to stabilize the northeastern shoreline of Marsh Island, including the northern 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 Vermilion Bay with a rock dike.	3B
CWPPRA	Sediment Trapping at "The Jaws"	TV-0015	TE, VP	NMFS	ST MARY	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 terraces, thereby reducing wave fetch. Distributary channels were dredged to deliver water and sediment to the project area.	3B
CWPPRA	Cheniere Au Tigre Sediment Trapping Demonstration	TV-0016	SNT	NRCS	VERMILION	N/A	N/A	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.	3B
CWPPRA	Lake Portage Land Bridge	TV-0017	SP	NRCS	VERMILION	1496	N/A	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.	3B
CWPPRA	Four Mile Canal Terracing and Sediment Trapping	TV-0018	TE	NMFS	IBERIA	52	N/A	2004	$2,667,186	This project includes construction and planting of terraces with smooth cordgrass (Spartina alterniflora) within Little White Lake and Little Vermilion Bay, along Four Mile Canal, to abate wave-induced shoreline erosion and facilitate sedimentation in the open water areas between the terraces.	3B
CWPPRA	Weeks Bay Marsh Creation and Shore Protection/ Commercial Canal Freshwater Redirection (Transferred)	TV-0019	SP	USACE	IBERIA	N/A	N/A	Transferred	$30,227	The goal of the project is to create marsh to restore land-bridge separating Weeks Bay and GIWW. In 2013, the CWPPRA Task Force transferred implementation of the project to parish stakeholders.	3B
CWPPRA	Bayou Sale Shoreline Protection (Deauthorized)	TV-0020	SP	NRCS	ST MARY	131	N/A	Deauthorized	$32,103,020	The goal of the project was to protect an eroding shoreline with approx 35,776 feet of rock dike shoreline protection. The project was deauthorized by the CWPPRA Task Force in 2014.	3B
CWPPRA	East Marsh Island Marsh Creation	TV-0021	MC	NRCS	IBERIA	1159	N/A	2010	$21,215,936	The objective of the project was to create approximately 362 acres of sustainable marsh. The majority of the project area has been converted to open water, primarily because of hurricane Lili (2002). Through the use of approximately $5 million in unused construction funds, over 500 acres of additional marsh was created/nourished. The sediment for marsh creation was dredged from East Cote Blanche Bay and pumped a maximum of 6 miles.	3B
CWPPRA	Cole's Bayou Marsh Creation	TV-0063	MC	NMFS	VERMILION	398	N/A	Pending	$27,881,223	The project consists of creating/nourishing marsh habitat and increasing freshwater and sediment inflow into interior wetlands by improving project area hydrology.	3B

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
FEDERAL	Lake Pontchartrain Hurricane Mitigation Project	HPL-MIT	SP	USACE	ST JOHN THE BAPTIST	600	N/A	1996	$2,222,892	This project consisted of a near-shore, segmented breakwater system in Lake Pontchartrain parallel to a five-mile reach of the Manchac Wildlife Management Area. The project specifically mitigated for damages resulting from construction of the Lake Pontchartrain Hurricane Protection project.	1
FEDERAL	MRGO Ecosystem Restoration	PO-0065	VP, FD, MM, SP, MC	USACE	ST BERNARD, ORLEANS	53700	N/A	Pending	$2,900,000,000	This project investigates an suite of restoration measures that are collectively intended to restore some of the ecosystem damaged by construction of MRGO.	1
FEDERAL	Lost Lake Vegetation Project	TE-0082	VP	USFWS	TERREBONNE	N/A	N/A	2011	$161,000	This coastal vegetative planting project is for erosion control and habitat restoration in the Lost Lake area of southwestern Terrebonne Parish.	3A
FEMA	Houma Navigation Canal Levee Maintenance	DSR-81557	SP	FEMA	TERREBONNE	4000	N/A	1995	$218,165	This FEMA project involved the repair of segments of the western bank of the Houma Navigation Canal damaged by Hurricane Andrew in 1992.	3A
FEMA	Wine Island	DSR-81558	DM	FEMA	TERREBONNE	25	N/A	1995	$253,579	This FEMA project was a cooperative venture with the USACE in the beneficial use of dredged material from a scheduled Houma Navigational Canal maintenance dredging project. The island was repaired to pre-Hurricane Andrew condition and planted with vegetation to stabilize the sediment.	3A
FEMA	Timbalier Island Repairs	DSR-81559	BH	FEMA	TERREBONNE	70	N/A	1996	$551,653	This FEMA project closed a major breach created by Hurricane Andrew and provided a 300-foot-wide elevated marsh platform to stabilize the island. Vegetation was also planted to stabilize the sand.	3A
FEMA	East Island Repair Protection	DSR-81560	DM	FEMA	TERREBONNE	25	N/A	1996	$633,179	This FEMA project constructed an elevated marsh platform in an area of a Terrebonne Parish project destroyed by Hurricane Andrew in 1992. Vegetation was also planted to stabilize the sand.	3A
FEMA	LaBranche Wetlands	DSR-81768	SP	FEMA	ST CHARLES	N/A	N/A	2000	$43,315	A 700-foot section of a Christmas tree brush fence was repaired. This project was damaged by Hurricane Georges, Hurricane Earl, and Tropical Storm Francis in 1998.	1
FEMA	Timbalier Island	DSR-81784	BH	FEMA	TERREBONNE	N/A	N/A	2000	$181,394	This FEMA project repaired sand fencing on Timbalier Island that was destroyed during a series of tropical storms and hurricanes in the fall of 1998.	3A
FEMA	Falgout Canal	DSR-81785	SP	FEMA	TERREBONNE	N/A	N/A	2000	$10,761	This FEMA project replaced flap gates on water control structures damaged during tropical storms and hurricanes in the fall of 1998. The installation of the new flapgate culverts was completed by Terrebonne Parish Consolidated Government.	3A
FEMA	East Island	DSR-81786	VP	FEMA	TERREBONNE	N/A	N/A	2000	$168,113	This FEMA project involved the planting of marsh vegetation on the dune and Lake Pelto shoreline of East Island. This area is part of a CWPPRA project damaged by a series of tropical storms and hurricanes in the fall of 1998. A total of 4,280 smooth cordgrass (Spartina alterniflora), 500 black mangrove (Avicennia germinans), and 6,147 roseau cane (Phragmites australis) plants were planted in April 2000.	3A
FEMA	Isle Dernieres (Whiskey Island)	DSR-81787	VP	FEMA	TERREBONNE	1259	N/A	2000	$581,566	This FEMA project involved the installation of sand fencing and the planting of vegetation to repair areas of Whiskey Island damaged by tropical storms and hurricanes during the fall of 1998. This area is part of a CWPPRA project area and CWPPRA funds were combined with the FEMA funds for repairs.	3A
FEMA	Marsh Island Repairs	PW-1646	MM	FEMA	IBERIA	N/A	N/A	2005	$885,861	This FEMA project consisted of repairs to areas of stone paving, stone dikes, and minor repair of navigation aids on the Marsh Island Hydrologic Restoration (TV-14) project damaged during Hurricane Lili in 2002. The project also included minor maintenance work paid for by CWPPRA.	3B
FEMA	Cote Blanche Repairs	PW-1906	HR	FEMA	ST MARY	N/A	N/A	2005	$64,092	This FEMA project consisted of repairs to areas of stone paving, stone dikes, and minor repair of navigation aids on the Cote Blanche Hydrologic Restoration (TV-04) project damaged during Hurricane Lili in 2002. The project also included minor maintenance work paid for by CWPPRA.	3B
FEMA	Cameron Creole Structures	PW-4257	HR	FEMA	CAMERON	N/A	N/A	2007	$325,700	This FEMA project consists of repairs to five structures of the Cameron-Creole Maintenance (CS-04a) project that were damaged by Hurricane Rita in 2005. These structures are located at Grand, Peconi, Lambert, No Name, and Mangrove Bayous.	4
FEMA	Holly Beach Sand Fencing	PW-4403	SP	FEMA	CAMERON	N/A	N/A	2006	$218,473	This FEMA project consists of the replacement of 46,000 linear feet of sand fencing on the Holly Beach Sand Management (CS-31) project that was destroyed by Hurricane Rita in 2005.	4
FEMA	Hopedale Hydrological Structure	PW-8743	HR	FEMA	ST BERNARD	N/A	N/A	2007	$64,900	This FEMA project consists of repairs to the water control structure of the Hopedale Hydrologic Restoration (PO-24) project that was damaged by Hurricane Katrina in 2005. Repairs were made to damaged fencing, railings, and displaced riprap, and a lost portable hydraulic actuator is being replaced.	1
FEMA	Lake Pontchartrain Debris Removal	N/A	N/A	N/A	JEFFERSON, ORLEANS, ST CHARLES, ST JOHN THE BAPTIST, ST TAMMANY, TANGIPAHOA	N/A	N/A	2010	$10,000,000	The goal of this project was to remove debris from aproximately 758 square miles of Lake Pontchartrain.	1
FEMA	Montegut Wetlands	PW-1728	MM	FEMA	TERREBONNE	N/A	N/A	2005	$1,093,962	This FEMA project repaired damage to the Montegut Wetland (TE-01) project that occurred during Hurricane Lili in 2002. The project consisted of refurbishing and reconstructing 17,000 linear feet of an existing earthen levee using off-site borrow material.	3A
HSDRRS	West Bank and Vicinity	BA-0066	HP	USACE	ST CHARLES, ORLEANS, JEFFERSON, PLAQUEMINES	N/A	71	Pending	$3,150,000,000	The project is currently designed to provide 100 Year protection levels to the project area through the construction of levees to the 2011 protection levels and T-Walls and other structures to the 2057 protection levels.	2
HSDRRS	New Orleans to Venice	BA-0067	HP	USACE	PLAQUEMINES	N/A	58	Pending	$1,301,523,760	The NOV project consists of 24 areas of work covered by projects NOV 1-2, NOV 5-16, NOV-NF-W- 4 to 6, NF-02, and Taskforce Guardian (TFG) Continuing Projects P13- 15, P17, and P24 that includes the section of the Plaquemines Parish Hurricane Protection System.	1,2
HSDRRS	Grand Isle and Vicinity	BA-0073	SP	USACE	JEFFERSON	N/A	Not Available	Pending	$25,000,000	The Grand Isle and Vicinity Hurricane Protection Project consists of a 7.5 mile vegetated sand dune extending the length of Grand Isle's gulf shore, a jetty to stabilize the western end of the island at Caminada Pass, and an offshore breakwater system.	2
HSDRRS	Storm-Proofing of Interior Pumping Stations	BA-0074	FP	USACE	JEFFERSON, ORLEANS	N/A	N/A	2014	$340,000,000	This project involves the installation of various improvement features to the interior pump stations of Orleans and Jefferson Parish under the Hurricane and Storm Damage Risk Reduction System (HSDRRS).	2
HSDRRS	HSDRRS Mitigation- WBV	BA-0109	MC	USACE	JEFFERSON, LAFOURCHE	1318	N/A	Pending	$126,000,000	This USACE project involves the implementation of various restoration measures to mitigate wetland impacts associated with the construction of the West Bank and Vicinity (WBV) project.	2, 3A
HSDRRS	Risk Reduction- Barataria Basin Landbridge	BA-0148	MC, HP	USACE	JEFFERSON	223	N/A	Pending	$10,100,000	This project is being led by USACE and is 100% federally funded with $10.1 Million allocated by the U.S. 4th Supplemental Appropriations as a Hurricane Risk Reduction project. It provides for about 101 acres of marsh creation and 122 acres of marsh nourishment on the south shore of the Pen.	2
HSDRRS	Previously Authorized Mitigation WBV	BA-0154	MM, VP, PP	USACE	JEFFERSON, ST. CHARLES	1130	N/A	Pending	$11,000,000	This project is being led by USACE and is 100% federally funded with approximately $79 Million allocated. It provides for about 1,130 acres of mitigation, including: 1) acquisition, improvement, and management of approximately 128 acres of BLH wetland habitat adjacent to Bayou Segnette State Park, 2) acquisition of approximately 970 acres of high value wooded wetlands in St. Charles Parish, and 3) acquisition, improvement, and management of approximately 350 acres of high quality wooded lands in St. Charles Parish.	2
HSDRRS	Plaquemines TFU Mitigation - Braithwaite to Scarsdale - Big Mar	BA-0156	MC	USACE	PLAQUEMINES	24	N/A	Pending	$2,800,000	This project is being led by USACE and is 100% federally funded with approximately $2.8 Million allocated. It provides for the creation of approximately 24 acres of Marsh. Additionally, Plaquemines Parish will be combining a neighboring local project of 16 acres of marsh creation to this project with supplemental funding for a total of 40 acres.	1
HSDRRS	New Orleans to Venice Mitigation - Plaquemines Non-Federal	BA-0158	MC	USACE	PLAQUEMINES	342	N/A	Pending	$14,500,000	This project is being led by USACE and is 100% federally funded with approximately $14.5 Million allocated. It provides for about 180 acres of mitigation, which includes approximately 50 acres of BLH wet/dry combined, 50 acres of swamp, 60 acres of freshwater marsh, and 20 acres of brackish marsh.	2, 1
HSDRRS	New Orleans to Venice Mitigation - Federal	BA-0159	MC	USACE	PLAQUEMINES	410	N/A	Pending	$30,000,000	This project is being led by USACE and is 100% federally funded with approximately $30 Million allocated. It provides for about 700 acres of mitigation, which includes approximately 130 acres of BLH wet/dry combined, 140 acres of intermediate marsh, 70 acres of freshwater marsh, 76 acres of brackish marsh, and 280 acres of saline marsh.	2, 1
HSDRRS	Risk Reduction Via Modification to the Caernarvon Freshwater Diversion	BS-0003-B	FD, SD, HP	USACE	PLAQUEMINES	65	N/A	Pending/On Hold	$10,100,000	This project is being led by USACE and is 100% federally funded with $10.1 Million allocated by the U.S. 4th Supplemental Appropriations as a Hurricane Risk Reduction project. It provides for redirecting water from the Caernarvon Diversion into the 40 Arpent Canal to enhance the movement of fresh, sediment-laden water into the marsh north of Lake Lery in order to halt and reverse marsh deterioration. This project was originally included as a shunt under CWWPRA BS-16 but removed to allow USACE to fund it as a marsh creation project.	1

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
HSDRRS	Lake Pontchartrain & Vicinity, Lake Borgne Surge Barrier LPV-IHNC-02	PO-0055	HP	USACE	ST BERNARD, ORLEANS	N/A	2	2013	$1,134,000,000	This project involves the construction of a Hurricane Surge Barrier across the tip of Lake Borgne connecting the MRGO levees south of Bayou Bienvenue with the GIWW levees East of Michoud Canal with floodgates at Bayou Bienvenue and GIWW.	1
HSDRRS	SELA	PO-0057	OT	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	HP	USACE	ORLEANS, JEFFERSON	N/A	0.34	Pending	$614,800,000	This project, authorized under Public Law 109-234, involves the design and construction of a permanent protection system for the outfall canals along 17th Street, Orleans Avenue, and London Avenue and install pumps and closure structures at or near the lakefront.	1
HSDRRS	West Shore Lake Pontchartrain	PO-0062	HP	USACE	ST JOHN THE BAPTIST, ST CHARLES, ST JAMES, ASCENSION	N/A	27	Pending	$898,584,586	This project involves the assessment of hurricane and storm reduction measures in a study area bounded by the Bonnet Carre Spillway to the east, The Mississippi River to the south, Lakes Pontchartrain and Maurepas to the north, and the St. James Parish/Ascension Parish line to the west.	1
HSDRRS	Lake Pontchartrain and Vicinity	PO-0063	HP	USACE	ST CHARLES, JEFFERSON	N/A	128	2010	$3,852,000,000	Lake Pontchartrain and Vicinity (LPV) is the hurricane protection program that involves approximately 30 hurricane protection projects in East Jefferson and St. Charles Parishes.	1
HSDRRS	Lake Pontchartrain & Vicinity, Seabrook Lock LPV-IHNC-01	PO-0064	HP	USACE	ORLEANS	N/A	0.5	2012	$157,156,414	This project consists of a gate closure structure across the Industrial Canal approximately 500 ft South of the Ted Hickey Bridge at Lake Pontchartrain to work in conjunction with the IHNC Borgne Surge Barrier.	1
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 wetland impacts associated with the construction of the Lake Pontchartrain and Vicinity (LPV) project.	1
HSDRRS	LPV Task Force Guardian Mitigation- Bayou Sauvage	PO-0145	MM, VP	USACE	ORLEANS	58	N/A	Pending	$780,000	This project is being led by USACE and is 100% federally funded with approximately $2 Million allocated. This project is mitigating approximately 147 acres due to emergency levee work that utilized 2 borrow pits of about 57 acres. It provides for the elimination of non-native trees with spraying and mechanical clearing, and then the replanting of up to 89,000 trees and shrubs of native species, including butternuts, pecans, cypresses and oaks.	1
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 led by USACE and is 100% federally funded with approximately $21.3 Million allocated. It provides for containment dikes 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 erosion.	1
LOUISIANA COASTAL AREA	LCA Small Bayou Lafourche Reintroduction	BA-0070	FD	USACE	ASSUMPTION, LAFOURCHE	N/A	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 River into Bayou Lafourche. Project goals include providing freshwater, sediment and nutrients needed to reduce salinity, stimulating plant productivity, and reducing wetland loss between Bayous Lafourche and Terrebonne. Funds from the budget surplus of 2008 will be used for the state's cost-share requirement. *Construction cost taken from WRDA 2007 legislation.	3A
LOUISIANA COASTAL AREA	LCA Medium Diversion with Dedicated Dredging at Myrtle Grove	BA-0071	FD	USACE	PLAQUEMINES	N/A	N/A	Pending/On Hold	$278,300,000	Authorized by WRDA 2007 as a sediment diversion between 2,500 and 15,000 cfs. Ongoing modeling effort to examine potential for modification of the WRDA authority for a larger sediment diversion to promote infilling of shallow open water areas through deposition and marsh expansion. *Fully funded Phase 2 cost taken from WRDA 2007 legislation.	2
LOUISIANA COASTAL AREA	LCA Modification of Davis Pond Diversion	BA-0072	FD	USACE	ST CHARLES, JEFFERSON, PLAQUEMINES, LAFOURCHE	N/A	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 Barataria Basin.	2
LOUISIANA COASTAL AREA	LCA Modification of Caernarvon Diversion	BS-0019	FD	USACE	ST BERNARD, PLAQUEMINES	N/A	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 Caernarvon, west of the Mississippi River.	1
LOUISIANA COASTAL AREA	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 freshwater, nutrients, and fine sediment to the area between the Mississippi River and River aux Chenes ridges.	1
LOUISIANA COASTAL AREA	LCA Barataria Basin Barrier Shoreline - 2007	LA-0010	MC, BH	USACE	JEFFERSON, PLAQUEMINES, LAFOURCHE	N/A	N/A	Pending/On Hold	$363,900,000	The purpose of this project is to provide beach/dune restoration and marsh creation on Caminada Headlands and Shell Island.	2
LOUISIANA COASTAL AREA	LCA Beneficial Use Feasibility Study	LA-0019	DM	USACE	COASTWIDE	N/A	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 COASTAL AREA	LCA Mississippi River Delta Management Study	MR-0016	OT	USACE	PLAQUEMINES	N/A	N/A	Pending/On Hold	$25,358,136	This project involves the development of a strategic framework for feasibility evaluation of improved management of fresh water, nutrients, and sediment resources of the Lower Mississippi River, from the Old River Control Structure to Head of Passes, to better sustain its Deltaic Plain.	1, 2
LOUISIANA COASTAL AREA	Small Diversion at Hope Canal	PO-0067	FD	USACE	ST JOHN THE BAPTIST	N/A	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 order to facilitate organic deposition, improve biological productivity, and prevent further deterioration of the swamp. The state is using surplus funds as part of the required cost-share for this project. *Fully funded Phase 2 cost provided si the the projected cost estimates.	1
LOUISIANA COASTAL AREA	LCA Small Diversion at Convent / Blind River	PO-0068	FD	USACE	ST JAMES, ASCENSION	N/A	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 COASTAL AREA	LCA Amite River Diversion Canal Modification (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 is being implemented as State project PO-142.	1
LOUISIANA COASTAL AREA	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 Caillou Lake by constructing shoreline protection on the gulf and Grand Bayou du Large, marsh creation, and closure of newly opened channels and to minimize saltwater intrusion, prevent gulf shore erosion and increase freshwater influence on marshes in project area.	3A
LOUISIANA COASTAL AREA	LCA Point Au Fer	TE-0068	SP	USACE	TERREBONNE	N/A	N/A	Pending/On Hold	$48,300,000	The goal of the project is to stabilize gulf shoreline of Point Au Fer Island to prevent direct connection between gulf and interior water bodies thereby preventing conversion of existing wetlands to marine habitat.	3A
LOUISIANA COASTAL AREA	LCA Terrebonne Basin Barrier Shoreline Restoration	TE-0070	BH	USACE	TERREBONNE	N/A	N/A	Pending/On Hold	$133,300,000	This project provides for the restoration of the Timbalier and Isles Dernieres barrier island chains. This would simulate historical conditions by reducing the current number of breaches, enlarging (width and dune crest) of the Isles Dernieres (Raccoon Island, East Island, Trinity Island, Wine Island, and Whiskey Island),Timbalier Island, and East Timbalier Island.	3A
LOUISIANA COASTAL AREA	LCA Convey Atchafalaya River Water to Northern Terrebonne Marshes	TE-0071	HR	USACE	TERREBONNE	N/A	N/A	Pending/On Hold	$349,995,500	The project would increase existing Atchafalaya River influence to central (Lake Boudreaux) and eastern (Grand Bayou) Terrebonne marshes via the Gulf Intracoastal Waterway (GIWW).	3A
NFWF	Caminada Headland Beach and Dune Restoration Increment 2	BA-0143	BH	N/A	JEFFERSON, LAFOURCHE	532	N/A	2016	$147,063,587	This project will restore and protect beach and dune habitat across the Caminada Headland through the direct placement of approximately 5.4 million cubic yards of sandy material from Ship Shoal (an offshore borrow source). The project footprint begins near Bayou Mareau and extends approximately 9 miles east towards Caminada Pass. A total of 489 acres of beach and dune habitat will be restored.	2
NFWF	Mid-Barataria Diversion	BA-0153	SD	N/A	PLAQUEMINES	68,000	N/A	Pending	In Development	The MBSD is a large and complex civil works and restoration project. MBSD, when in operation, would transfer sediment-laden water from the Mississippi River through a self-contained channel roughly 1.5 miles long, before outfalling past the back levee into mid-Barataria Basin. The project will restore the natural deltaic and sedimentation processes along the Mississippi River near River Mile 60.7 just north of Ironton. The MBSD would be expected to build and nourish ten to thirty thousand acres of critical coastal wetlands over a 50 year period, being a top contributor to the 2012 Master Plan's goal of achieving no net loss of land in the future.	2
NFWF	Lower Barataria Diversion	BA-0163	SD	N/A	PLAQUEMINES	In Development	N/A	N/A	In Development	The purpose of the project is to construct a sediment diversion to transport sediment from the Mississippi River into the Lower Barataria Basin to reestablish deltaic processes in order to build, sustain, and maintain wetlands. The project intends to build a sediment diversion in the lower Barataria Bay in the vicinity of Empire around 50,000 cfs capacity.	2
NFWF	Lower Breton Diversion	BS-0023	SD	N/A	PLAQUEMINES	In Development	N/A	N/A	In Development	The purpose of the project is to construct a sediment diversion to transport sediment from the Mississippi River into the Lower Breton Sound Basin to reestablish deltaic processes in order to build, sustain, and maintain wetlands. The project intends to build a sediment diversion in the lower Breton Sound in the vicinity of Black Bay around 50,000 cfs capacity.	1

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
NFWF	Mid Breton Diversion	BS-0030	DI	N/A	PLAQUEMINES	In Development	N/A	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 to Easter Terrebonne	TE-0110	SD	N/A	TERREBONNE	In Development	N/A	Pending	In Development	The purpose of the project is to utilize freshwater and sediment from the Atchafalaya River in order to build, sustain, and maintain wetlands within the Terrebonne Basin. The project intends to dredge the GIWW east of the Atchafalaya and install a bypass structure at Bayou Boeuf Lock to increase freshwater and sediment flows from Atchafalaya River to Terrebonne marshes.	3A, 3B
NFWF	East Timbalier Island Restoration	TE-0118	BH	N/A	LAFOURCHE	In Development	N/A	Pending	$74,000,000	This project will engineer and design a restoration of dune, supratidal, and intertidal habitat, such that the two presently remaining, severely degraded island segments will be reconnected and the historic island footprint re-established, which will improve bird and fish habitat, help protect oil and gas infrastructure, and provide hurricane surge protection for western Lafourche Parish.	3A
NRDA	Cheniere Ronquille Barrier Island Restoration	BA-0076	BH, MC	NMFS	PLAQUEMINES	408	N/A	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	BA-0111	BH	N/A	PLAQUEMINES	347	N/A	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 reestablish productive habitat to Bastian Bay and the surrounding area. It will create 328 acres of marsh and 372 acres of dune and beach.	2
NRDA	Lake Hermitage Marsh Creation Increment 2	BA-0141	MC	N/A	PLAQUEMINES	101	N/A	2014	$139,000,000	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 Island Restoration	BA-0202	BH	N/A	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 acres to approximately 36 acres (Figures 24 & 25). This will be accomplished by hydraulically dredging sediment from a nearby suitable offshore sand source and disposing of it within existing rock ring that outlines the island. The island will be pumped to a post-construction settled elevation of +5.5 NAVD 88. Small limestone will be deposited on most of the perimeter of the island to create a low maintenance beach-like feature for nesting terns and skimmers. The island will be planted with suitable vegetation to provide optimal nesting substrate (oyster grass, wire grass, marsh elder, & black mangrove.	2
NRDA	Barataria Basin Ridge and Marsh Creation - Spanish Pass Increment	BA-0203	MC	N/A	PLAQUEMINES	1254	N/A	N/A	$124,500,000	Spanish Pass is a natural historic tributary of the Mississippi River located west of Venice, Louisiana. 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 earthen ridge. The marsh creation feature of this project will dredge sediment from the Mississippi River, near Venice, LA, to create approximately 1,134 acres of marsh.	2
NRDA	Rabbit Island Restoration Project	CS-0080	BH	N/A	CAMERON	200	N/A	N/A	$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 Marsh Creation - Increment One	PO-0180	MC	N/A	ST BERNARD	1548	N/A	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 Lake Headlands	TE-0100	BH	N/A	TERREBONNE	1272	N/A	Pending	$111,309,000	This project aims to restore the Whiskey Island Barrier Island in order to retain its geomorphologic form and ecologic function. It will create 170 acres of marsh habitat and 917 acres of dune and beach habitat.	3A
NRDA	Terrebonne Basin Ridge and Marsh Creation - Bayou Terrebonne Increment	TE-0139	MC	N/A	TERREBONNE	1496	N/A	N/A	$126,000,000	The Bayou Terrebonne Increment of the Terrebonne Basin Ridge and Marsh Creation Project is a ridge restoration and marsh creation project located in western Terrebonne Parish. The ridge restoration feature of this project will restore 126 acres of earthen ridge, and the marsh creation feature of this project will dredge sediment from offshore to create 1,370 acres of marsh. This increment is part of large-scale restoration strategy for the Terrebonne Basin that will rebuild ridge and intertidal marsh habitat that has degraded due, in part, to the DWH oil spill.	3A
OTHER	Lake Pontchartrain Mitigation Project	HPL-MIT	SP	N/A	ST JOHN THE BAPTIST	600	N/A	1996	$2,222,892	This project consisted of a near-shore, segmented breakwater system in Lake Pontchartrain parallel to a five-mile reach of the Manchac Wildlife Management Area. The project specifically mitigated for damages resulting from construction of the Lake Pontchartrain Hurricane Protection project.	1
OTHER	Coastal Wetlands Public Outreach	N/A	OT	N/A	N/A	N/A	N/A	N/A	$400,000	The DNR Public Information Office provides a variety of printed materials, educational videos and cds, fact sheets, website information, and a fleeting wetlands exhibit for the public. Other department outreach efforts include participating in conferences, workshops, civic events, and school activities. Much of the agency's educational outreach is in partnership with the Breaux Act Task Force committees and the America's WETLAND campaign. As a result of workingwith several noted authors, writers and reporters, the Public Information Office has contributed to the publishing of hundreds of national articles over the past years. To contact the Louisiana Department of Natural Resources' Public Information Office online----info@dnr.state.la.us.	COASTWIDE
RESTORE	West Grand Terre Beach Nourishment and Stabilization	BA-0197	BH	N/A	JEFFERSON	In Development	N/A	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 revetment to protect restored marsh.	2
RESTORE	Calcasieu Ship Channel Salinity Control Measures	CS-0065	HR	N/A	CAMERON	In Development	N/A	Pending	In Development	The purpose of the project is to manage salinities being introduced into adjacent water bodies through the Calcasieu Ship Channel to reduce the rate of wetland loss in the surrounding wetlands. The project intends to construct features to prevent saltwater from entering wetlands adjacent to Calcasieu Lake through the Calcasieu Ship Channel. Measures would control salinity spikes and would be constructed in a manner that would allow for the continued functioning and ideally improvement and increased viability of the Calcasieu Ship Channel and the Port of Lake Charles.	4
RESTORE	River Reintroduction into Maurepas Swamp	PO-0029	FD	EPA	ST JOHN THE BAPTIST, ST JAMES	36121	N/A	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 Maurepas through the diversion of Mississippi River water into an area of degraded swamp. The project was originally proposed under CWPPRA but underwent subsequent development as a State-only project.	1
RESTORE	Golden Triangle Marsh Creation	PO-0163	MC	N/A	ORLEANS, ST BERNARD	In Development	N/A	N/A	$54,550,330	This project would complete the engineering and design to create approximately 600 acres of marsh within the Golden Triange Marsh system.	1
RESTORE	Biloxi Marsh Living Shoreline Project	PO-0174	SP	N/A	ST BERNARD	In Development	N/A	N/A	$57,719,731	The project would create a living breakwater structure by mechanically placing a manufactured structure, or suite of structures, off the shoreline of Eloi Bay and Eloi Point, near the mouth of Bayou La Loutre.	1
RESTORE	Houma Navigation Canal Lock Complex	TE-0113	HR	N/A	TERREBONNE	In Development	N/A	Pending	In Development	The Houma Navigation Canal Lock Complex (TE-113) is a part of the Morganza to the Gulf of Mexico Hurricane Protection Project. The structure will provide storm surge protection, increase freshwater distribution, and provide navigation along the Houma 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/A	DM	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.	1
SECTION 204/1135	MRGO, Breton Island Berm, Mile -2 to -3	N/A	DM	USACE	PLAQUEMINES	N/A	N/A	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	N/A	DM	USACE	ST BERNARD	50	N/A	1999	$350,000	This Section 204 project provided for the unconfined placement of 3,468,901 cubic yards of material into shallow water adjacent to the south jetty at about mile 15.3. The material was dredged from miles 14.0 to 11.0 of the Mississippi River Gulf Outlet (MRGO) navigation channel and placed to an elevation conducive to marsh vegetation establishment.	1
SECTION 204/1135	Mississippi River Gulf Outlet, Mile 14 to 12 (2002)	N/A	DM	USACE	ST BERNARD	50	N/A	2002	$290,000	The project involved pumping approximately 1.6 million cubic yards to create some 50 acres of marsh behind the MRGO jetty. This project was fast tracked due to the impact of Hurricane Lili and Tropical Storm Isidore in 2002.	1
SECTION 204/1135	Mississippi River Gulf Outlet, Mile 14 to 12 (2003)	N/A	DM	USACE	ST BERNARD	113	N/A	2003	$580,000	This project involved pumping 4.3 million cubic yards of sediments to create 113 acres of marsh. The material was dredged from miles 14.0 to 12.0 of the Mississippi River Gulf Outlet (MRGO) navigation channel and placed at an elevation conducive to marsh vegetation establishment.	1
SECTION 204/1135	Barataria Bay Waterway, Mile 31 to 24.5	N/A	DM	USACE	JEFFERSON	125	N/A	1999	$140,000	(BBWW) to create marsh habitat.	2

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
SECTION 204/1135	Barataria Waterway Grand Terre Island Ph 2	N/A	DM	USACE	JEFFERSON	80	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, II, III	N/A	DM	USACE	CAMERON	480	N/A	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 Calcasieu Ship Channel. A total of 4 million cubic yards of material was deposited in three phases within the Sabine National Wildlife refuge at an elevation conducive to marsh creation.	4
SECTION 204/1135	Wine Island Restoration	DSR-81558	DM	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 Houma 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	N/A	1996	$1,370,000	This Section 204 project provides for the beneficial placement of 500,000 cubic yards of dredged material from the Barataria Bay Waterway (BBWW) to create wetlands on Grand Terre Island.	2
SECTION 204/1135	Houma Navigation Canal, Wine Island Barrier Island Restoration	N/A	DM	USACE	TERREBONNE	50	N/A	2002	$1,000,000	This Section 204/1135 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, Louisiana at the mouth of the navigation channel in Terrebonne Bay. The construction schedule of this project was expedited due to the impact of Hurricane Lili and Tropical Storm Isadore.	3A
SECTION 204/1135	Brown Lake	N/A	MC, DM	USACE	CAMERON	315	N/A	1999	$1,132,435	The project will restore, to the extent possible, the natural hydrology of the area. A reduction in marsh loss and improved water conditions are expected to occur following project implementation. Long-term water management objectives will be directed towards maintaining a brackish marsh system.	4
STATE	Alexandria to the Gulf	AT-0012	OT	N/A	RAPIDES	N/A	N/A	N/A	$970,000	This feasibility study is intended to evaluate options and alternates for providing urban drainage and flood reduction to the City of Alexandria and irrigation and flood reduction benefits to agricultural areas south and southeast of the city.	3B
STATE	Atchafalaya Basin Natural Resources Inventory and Assessment	AT-0013	OT	N/A	ST MARY, IBERIA, ST MARTIN	N/A	N/A	N/A	$1,450,000	This project assesses and inventories the natural resources in the Atchafalaya Swamp.	3B
STATE	Naomi Siphon Diversion	BA-0003	FD	N/A	PLAQUEMINES, JEFFERSON	8200	N/A	1992	$9,602,381	This project involved the construction of eight parallel siphons to divert water from the Mississippi River into the adjacent wetlands near Naomi, Louisiana. The maximum discharge of the siphons is 2,100 cfs.	2
STATE	West Pointe a la Hache Siphon Diversion	BA-0004	FD	N/A	PLAQUEMINES	9200	N/A	1992	$9,845,693	This project involved the construction of eight parallel siphons to divert water from the Mississippi River into the adjacent wetlands on the west side of the river near Pointe a la Hache, Louisiana. The maximum discharge of the siphons is 2,100 cfs.	2
STATE	Queen Bess	BA-0005-B	SP, DM	N/A	JEFFERSON	145	N/A	1993	$1,475,176	The purpose of this project is to restore Queen Bess Island as a brown pelican (Pelecanus occidentalis) rookery. Dredged material was added to the island to increase its size in 1991, and a rock dike was installed around the perimeter of the original island in 1992 to armor the shoreline. The area has become vegetated and the number of pelican nests on the island increased after project	2
STATE	Baie de Chactas	BA-0005-C	SP	N/A	ST CHARLES	130	N/A	1990	$175,000	Approximately 300,000 pounds of crushed oyster shell were placed on 7,400 feet of shoreline to restore the physical integrity of the marsh shoreline separating Lake Salvador and Baie de Chactas and Baie du Cabanage.	2
STATE	Lake Salvador Shoreline Protection Extension	BA-0015-X1	SP	N/A	ST CHARLES	2035	N/A	2005	$4,840,344	The purpose of this project is to build a rock dike that will protect the marsh shoreline along the northeastern portion of Lake Salvador. The shoreline protection project was built on the land to avoid dredging in an area with cultural resources. This project was designed as an extension of the BA-15 Phase II CWPPRA project.	2
STATE	Bayou Segnette	BA-0016	SP	N/A	JEFFERSON	88	N/A	1994, 1998	$1,373,151	This project involved the construction of a 6,800-foot limestone rock berm to reinforce the bank between Lake Salvador and Bayou Segnette and the installation of a timber piling fence across an abandoned access canal that connects the two water bodies. The fence is designed to reduce wave energies and erosive forces from the lake while still allowing exhange of sediment and aquatic organisms. Additional CWPPRA funds were appropriated for the design of this state-funded project. Maintenance of this project was necessary in the 1998-1999 fiscal year at a cost of $300,000.	2
STATE	Bayou Lafourche Freshwater Introduction	BA-0025	FD	N/A	LAFOURCHE	Not Available	N/A	2011	$20,000,000	The Mississippi River diversion into Bayou Lafourche will restore coastal marshes and provide drinking water to over 300,000 residents. This project funded the dredging of the fist 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	N/A	N/A	$4,500,000	This project provided State funding to supplement a Plaqumines Parish dredging design project.	2
STATE	Jean Lafitte Tidal Protection	BA-0075-1	HP	N/A	JEFFERSON	N/A	2.9	Pending	$15,730,000	This project will provide flood protection improvements by raising 15,940 linear feet of existing earthen levee. The project will also include approximately 7600 liner feet of concrete capped, steel sheet pile floodwall and flood gates to 8.0 NAVD.	2
STATE	Rosethorne Tidal Protection	BA-0075-2	HP	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 9.0 NAVD.	2
STATE	St. Charles West Bank Hurricane Protection Levee	BA-0085	HP	N/A	ST CHARLES	N/A	9	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	OT	N/A	LAFOURCHE	N/A	N/A	Pending	$4,890,000	This project will allow salinity 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	SP	N/A	JEFFERSON	N/A	N/A	N/A	$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	HP	USACE	ASSUMPTION, JEFFERSON, LAFOURCHE, ST JOHN THE BAPTIST, ST CHARLES, ST JAMES	N/A	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 rainfall to prevent further economic losses and environmental damage in the Barataria Basin. The project is currently in its feasibility study phase, during which various alternatives to areducing storm surge are being examined, the adequacy of the existing drainage system is being assessed, and cultural, environmental, and recreational issues are being identified. The scope is to study various alternatives that will provide flood protection from tidal, hurricane surges, and heavy rainfall events, determine the adequacy of the existing interior drainage systems and evaluate whether additional pumping capacity is required, and analyze recreational, cultural, and environmental needs.	2
STATE	Grand Isle-Fifi Island Breakwaters	BA-0168	SP	N/A	JEFFERSON	Not Available	N/A	2015	$6,000,000	The project will construct breakwaters along the southwestern portion of Fifi Island to reduce erosion on Fifi Island 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	HP	N/A	LAFOURCHE	N/A	6	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	BH	N/A	JEFFERSON, LAFOURCHE, PLAQUEMINES, TERREBONNE	N/A	N/A	N/A	$7,106,511	This project involves the development of a system-wide program for handling breaching that occurs within the barrier island and headland system of the Louisiana coastline. The project will extend eastward from Raccoon Island to Scofield Island within the Terrebonne and Barataria Basins. The project will include development of identification, classification, and prioritization methodologies with recommendations for breach prevention and response measures. The project goals are to reverse landloss, increase sustainability of restoration projects, reduce operations and maintenance costs, and improve ecosystems.	2, 3A
STATE	Barataria Large-Scale Component E-Planning	BA-0192	MC	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 NAVD88 to create new wetland habitat, restore degraded marsh, and reduce wave erosion (component of 002.MC.05). Project involves components to be constructed in 1st and 2nd implementation periods.	2
STATE	Brannon Ditch	BD	SP	N/A	CALCASIEU	480	N/A	1991	$12,440	This project included the construction of wooden breakwater fences along 2,200 feet of the GIWW across from Brannon Ditch in Calcasieu Parish. This area has experienced shoreline erosion in excess of 25 feet/year. The breakwaters reduce wave action from boats and the current from Brannon Ditch during periods of high discharge. Smooth cordgrass (Spartina alterniflora) was also planted behind the breakwaters in order to enhance accretion and increase the stability of this site.	4

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
STATE	Brown Marsh	BRM-01	MC	N/A	LAFOURCHE	44	N/A	2002	$473,365	Project features consisted of a thin layer marsh creation/nourishment covering 44 acres in Lafourche Parish.	3A
STATE	Lake Lery Hydrologic Restoration	BS-0006	FD	N/A	ST BERNARD	100	N/A	1997	$1,000,000	This project involved the construction of a pumping station located along the south-central edge of the St. Bernard Parish Ridge. This will discharge collected rainfall into the marsh north of Lake Lery and help prevent saltwater intrusion. The project was built in partnership with the Lake Borgne Basin Levee District and was completed in Mar of 1997.	1
STATE	Cheniere Au Tigre	CAT-01	SP	BOEMRE	VERMILION	40	N/A	2005	$1,802,271	The primary objective of this project is to protect the Cheniere au Tigre shoreline from additional erosion and protect local infrastructure. The project used segmented rock breakwater structures to help reduce the rate of shoreline erosion and promote sediment deposition along the beach north of the breakwater structures. The proposed series of segmented breakwaters was placed just east of the CWPPRA funded TV-16 project with up to nine additional structures. The structures cover approximately 2,800 linear feet with an approximate distance of 240 feet from the existing shoreline.	3B
STATE	Holly Beach	CS-0001	SP	N/A	CAMERON	88	N/A	1991, 1992, 1993, 1994	$8,437,000	The objective of this project is to protect the marsh north of the Gulf of Mexico shoreline by expanding shoreline protection in phases from Ocean View, Louisiana to the east near Calcasieu Pass. A total of 34 breakwaters were constructed in 1991, 21 breakwaters were constructed in 1992, 21 breakwaters were constructed in 1993, and nine breakwaters were constructed in 1994 between Calcasieu Pass and Holly Beach, Louisiana. Eighteen of the existing breakwaters were raised and/or extended in 2003 utilizing marine mattress foundations and armor stone.	4
STATE	Rycade Canal Marsh Management	CS-0002	MM	N/A	CAMERON	6575	N/A	1994	$2,005,857	The project was designed to stabilize salinities and water levels by reducing water flows through Rycade canal and Black Lake.	4
STATE	Cameron Creole Levee	CS-0004-A	HP	N/A	CAMERON	2602	N/A	2011	$12,600,000	The intent of this project is to provide for repair and maintenance of critical perimeter control structures around Calcasieu Lake and repairs to the Cameron-Creole Levee. These structures were severely damaged by Hurricane Rita.	4
STATE	Cameron-Creole Structure Automation	CS-0004-A-1	HR	N/A	CAMERON	N/A	N/A	1999	$700,000	This project consists of automating three existing water control structures along the east shore of Calcasieu Lake. These structures are remotely located and are difficult to manipulate. Automation of these structures will improve management capabilities in the Sabine National Wildlife Refuge.	4
STATE	Cameron Parish Shoreline Restoration	CS-0033	OT	N/A	CAMERON	523	N/A	2014	$45,800,000	The project involved the re-establishment of dunes and beachead for 8.7 miles extending from the western Calcasieu River Jetty to the eastern-most breakwater at the Holly Beach – Constance Beach breakwater field.	4
STATE	Black Lake Supplemental Beneficial Use Disposal Area	CS-0034	DM	USACE	CAMERON	440	N/A	2010	$21,034,329	The project beneficially used dredged sediment from maintenance dredging of the Calcasieu River Ship Channel from mile 14 thru mile 17 for delivery by sediment pipeline to the Black Lake/Marcantel Beneficial Use site.	4
STATE	Blind Lake	CS-BL	SP	N/A	CAMERON	480	N/A	1989	$173,433	The purpose of this project was to prevent the Gulf Intracoastal Waterway from breaching into Blind Lake. The project consisted of placing 2,339 linear feet of limestone breakwater along the south side of the GIWW adjacent to Blind Lake. The second phase of this project included planting giant cutgrass (Zizaniopsis miliacea) along the inside of the breakwater to enhance the accretion process.	4
STATE	Sabine Terraces	CS-ST	SNT	N/A	CAMERON	110	N/A	1990	$190,047	A total of 128 earthen terraces were constructed in a checkerboard pattern and planted with smooth cordgrass (Spartina alterniflora) in open water areas of the Sabine National Wildlife Refuge. The project's objective was to increase the length of marsh-water interface, re-establish emergent marsh vegetation, reduce marsh fringe retreat by reducing wind-generated wave energy, increase overall primary productivity, and promote the deposition of suspended sediment.	4
STATE	Fisheries Habitat Restoration on West Grand Terre Island at Fort Livingston	FTL-01	SP	N/A	JEFFERSON	Not Available	N/A	2003	$2,076,816	This project consists of a rock dike built to protect the Gulf shoreline of West Grand Terre Island and Fort Livingston. This project was expedited because erosion rates along West Grand Terre rapidly accelerated due to the impacts of tropical storms in 2002.	2
STATE	Grand Isle Bay Side Breakwaters	GIBSB	SP	N/A	JEFFERSON	50	N/A	1995	$500,000	The purpose of this project was to reduce erosion on the bay side of Grand Isle. Fifteen 300-foot breakwaters were constructed on the back-bay side of Grand Isle.	2
STATE	Dedicated Dredging Program - Lake Salvador	LA-0001-A	MC, DM	N/A	ST CHARLES	28	N/A	1999	$342,276	Two sites were filled utilizing dredged material adjacent to Baie du Cabanage on the Salvador Wildlife Management Area. This project is part of the coastwide state Dedicated Dredging Program. The goal of this program is to use a small, mobile hydraulic dredge along inland waterways in Louisiana's coastal zone to deposit dredged material, and thereby nourish and/or rebuild threatened coastal marshes adjacent to the waterways.	2
STATE	Dedicated Dredging Program - Bayou Dupont	LA-0001-B	DM, MC	N/A	JEFFERSON	66	N/A	2000	$1,080,017	Three sites were filled utilizing dredged material adjacent to Bayou Dupont and The Pen. This project is part of the coastwide state Dedicated Dredging Program. The goal of this program is to use a small, mobile hydraulic dredge along inland waterways in Louisiana's coastal zone to deposit dredged material, and thereby nourish and/or rebuild threatened coastal marshes adjacent to the waterways.	2
STATE	Pass a Loutre Site - Dedicated Dredging Program	LA-0001-C	DM	N/A	PLAQUEMINES	26	N/A	2005	$450,000	The project created approximately 26 acres of sustainable freshwater marsh in the vicinity of Pass a Loutre, Louisiana. This project is part of the coastwide state Dedicated Dredging Program. The goal of this program is to use a small, mobile hydraulic dredge along inland waterways in Louisiana's coastal zone to deposit dredged material, and thereby nourish and/or rebuild threatened coastal marshes adjacent to the waterways.	1
STATE	Terrebonne School Board Site - Dedicated Dredging	LA-0001-D	DM	N/A	TERREBONNE	40	N/A	2006	$2,599,587	This project created approximately 40 acres of marsh just north of Lake DeCade along the western bank of Minors Canal. This project is part of the coastwide state Dedicated Dredging Program. The goal of this program is to use a small, mobile hydraulic dredge along inland waterways in Louisiana's coastal zone to deposit dredged material, and thereby nourish and/or rebuild threatened coastal marshes adjacent to the waterways.	3B
STATE	Grand Bayou Blue Site - Dedicated Dredging	LA-0001-E	DM, MC	N/A	LAFOURCHE	38	N/A	2007	$1,831,534	This project created approximately 38 acres of marsh near Catfish Lake using dredged material from Grand Bayou Blue. This project is part of the coastwide state Dedicated Dredging Program. The goal of this program is to use a small, mobile hydraulic dredge along inland waterways in Louisiana's coastal zone to deposit dredged material, and thereby nourish and/or rebuild threatened coastal marshes adjacent to the waterways.	3A
STATE	Dedicated Dredging - Point au Fer	LA-0001-F	DM	N/A	TERREBONNE	67	N/A	2007	$2,469,250	This project created approximately 67 acres of marsh on Point Au Fer Island adjacent to the CWPPRA TE-26 project using material dredged from Atchafalaya Bay. This project is part of the coastwide state Dedicated Dredging Program. The goal of this program is to use a small, mobile hydraulic dredge along inland waterways in Louisiana's coastal zone to deposit dredged material, and thereby nourish and/or rebuild threatened coastal marshes adjacent to the waterways.	3B
STATE	Southwest Coastal Louisiana Feasibility Study	LA-0020	DM, TE, SP, MC	USACE	CALCASIEU, VERMILION, CAMERON	In Development	In Development	Pending	$8,800,000	The project integrates ecosystem restoration and hurricane protection alternatives to address the coastal issues of Southwest Louisiana. It includes shoreline stabilization, marsh creation, salinity control, hurricane protection, and chenier restoration measures. Project was authorized December 7, 2005.	4
STATE	Sabine Cycle 2	LA-0021-1	DM	N/A	CAMERON	227	N/A	2010	$6,600,000	The purpose of this project is to cover the cost of marsh fill for the Sabine Refuge Marsh Creation, Cycle 2 Breaux Act project.	4
STATE	MAS1 - Management	LA-0211	OT	N/A	COASTWIDE	N/A	N/A	N/A	$200,000	This project is to recognize activities undertaken by the State of Louisiana's Coastal Protection and Restoration Authority as part of the active process of managing multiple floodplain mapping projects for the coastal area of Louisiana.	3B
STATE	Sediment Diversion Implementation and Program Management	LA-0276	DI	N/A	JEFFERSON, LAFOURCHE, PLAQUEMINES, St. BERNARD	N/A	N/A	N/A	In Development	This project will include all work involved in the development of the Diversion Management program. This will be performed by CPRA personnel and CH2M and will initially result in the development of full E&D scopes for both the Mid-Barataria and Mid-Breton diversons.	1
STATE	Pecan Island Freshwater Introduction	ME-0001	FD	N/A	VERMILION	39000	N/A	1992	$487,152	The purpose of this project is to introduce freshwater from the north to counteract the saltwater intrusion from the south. The project consists of two water control structures and approximately 5,700 linear feet of earthen embankment needed to channel water from White Lake to the south marshes.	4
STATE	Marsh Creation Near Freshwater Bayou	ME-0025-SF	MC	N/A	VERMILION	96	N/A	2015	$5,700,000	The purpose of this project is to create 96 acres of marsh southeast of intersection of Acadiana Canal and Freshwater Bayou.	4
STATE	Small Sediment Diversions	MR-0001-B	SD	N/A	PLAQUEMINES	6719	N/A	1993	$1,010,500	This project involved the excavation of 13 crevasses through the levees of Mississippi River distributary channels within the Balize Delta in order to create self-sustaining emergent marsh.	1
STATE	North Grand Isle Breakwaters	NGI	SP	N/A	JEFFERSON	50	N/A	1995	$160,000	This project was authorized to construct segmented rock breakwaters on the bay side of Grand Isle to protect camps located between Caminada Bay and the west side of Louisiana Hwy 1. The Louisiana Department of Natural Resources (LDNR) contributed no construction funds and was involved in construction inspection only. The local Levee District supplied construction funds.	2
STATE	Violet Siphon Diversion	PO-0001	FD	N/A	ST BERNARD	84	N/A	1992	$380,584	The purpose of this project is to return into operation the existing siphon, and to enlarge the size of the diversion so that more sediment and freshwater are available to offset marsh subsidence and saltwater intrusion.	1

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
STATE	Bayou Chevee	PO-0002-C	SP	N/A	ORLEANS	75	N/A	1994	$62,000	This project installed 2,000 feet of brush fences at the mouth of Bayou Chevee.	1
STATE	LaBranche Shoreline Stabilization and Canal Closure	PO-0003	SP	N/A	ST CHARLES	1750	N/A	1987	$1,324,000	The purpose of this project is to restore the integrity of the shoreline, which separates Lake Pontchartrain from the western edge of the LaBranche wetlands.	1
STATE	LaBranche Shoreline Protection	PO-0003-B	SP	N/A	ST CHARLES	50	N/A	1996	$1,290,851	A rock breakwater was constructed along the Lake Pontchartrain shoreline, east of Bayou LaBranche, to protect the hydrologic boundary between the lake and the wetlands from being breached.	1
STATE	Central Wetlands Pump Outfall	PO-0008	FD	N/A	ST BERNARD	300	N/A	1992	$250,000	This project is designed to provide freshwater, nutrients, and sediment associated with storm water runoff to an area of marsh near the Violet Siphon (PO-01).	1
STATE	Turtle Cove Shore Protection	PO-0010	SP	N/A	ST JOHN THE BAPTIST	184	N/A	1994	$366,000	This project involved the construction of a 1,640 foot rock-filled gabion breakwater to maintain and protect the Lake Pontchartrain shoreline that shelters "The Prairie" (an 800-acre expanse of shallow, open water marsh bordered by organic freshwater marsh) from high wave energies and to encourage sediment deposition behind the gabion structure. An additional $195,600 was used for maintenance in 2001.	1
STATE	MRGO Closure Structure	PO-0038-SF	OT	USACE	ST BERNARD	2343	N/A	2009	$14,116,500	This project involves the installation of a closure structure in the Mississippi River Gulf Outlet (MRGO) to prevent the intrusion of saline Gulf waters into interior marsh via the channel. Project implementation was 100% Federal; the State acquired Real Estate interests for structure and is responsible for O&M activities.	1
STATE	St. Bernard Parish 40 Arpent Levee Repairs	PO-0061	HP	N/A	ST BERNARD	N/A	Not Available	2011	$5,000,000	This project is in the Lake Borgne Levee District and provided funds for the raising of low reaches of the Forty Arpent Levee.	1
STATE	Biloxi Marsh	PO-0072	SP	N/A	ST BERNARD	300	N/A	2014	$22,000,000	This project involved the construction of approximately four miles of shoreline protection along the southeastern shoreline of Lake Borgne.	1
STATE	North Shore Hurricane/Flood Protection and Restoration Plan	PO-0074	OT	N/A	ST TAMMANY, TANGIPAHOA	N/A	N/A	N/A	$1,271,898	This project involves the development of a hurricane protection plan for the North Shore.	1
STATE	MRGO and Lake Borgne (Bayou Dupre Segment)	PO-0093	SP	USACE	ST BERNARD	N/A	N/A	Pending	Not Available	This project will construct approximately 17,650 linear feet of stone foreshore dike along the southwest shoreline of Lake Borgne in the vicinity of Bayou Dupre. CPRA is acquiring portions of the two oyster leases that are impacted by this project.	1
STATE	MRGO and Lake Borgne (Bayou Bienvenue Segment)	PO-0094	SP	USACE	ST BERNARD	N/A	N/A	Pending	Not Available	This project will construct approximately 14,440 linear feet of stone foreshore dike along the southwest shoreline of Lake Borgne in the vicinity of Bayou Bienvenue. CPRA is acquiring portions of the three oyster leases that are impacted by this project.	1
STATE	MRGO and Lake Borgne (Shell Beach Segment)	PO-0095	SP	USACE	ST BERNARD	N/A	N/A	Pending	Not Available	This project will construct approximately 15,700 linear feet of stone foreshore dike along the southern shoreline of Lake Borgne, west of Shell Beach. CPRA is acquiring portions of the four oyster leases that are impacted by this project.	1
STATE	MAS2 - Outreach	PO-0129	OT	N/A	JEFFERSON, ORLEANS, PLAQUEMINES, ST BERNARD, ST CHARLES	N/A	N/A	N/A	$266,670	The objective of this project is to support the release by the Federal Emergency Management Agency (FEMA) of a Digital Flood Insurance Rate Map (DFIRM) and Flood Insurance Study (FIS) report, for the Greater New Orleans area.	1
STATE	Hydrologic Restoration of the Amite River Diversion Canal	PO-0142	HR, VP	N/A	ASCENSION, LIVINGSTON	1600	N/A	7/9/1905	$3,592,100	The purpose of this project is to reestablish hydrologic connectivity between Maurepas Swamps and natural waterbodies; plant vegetation in highly degraded swamp habitat.	1
STATE	St. Tammany Parish Coastal Protection Study	PO-0167	HP	N/A	ST TAMMANY	N/A	N/A	N/A	$2,000,000	This project was re-scoped in March 2016. It now involves updating the 2012 Northshore Hurricane and Flood Protection Study for St. Tammany and Tangipahoa Parishes Study with newly completed and proposed projects in the St. Tammany Parish Coastal Zone. In addition, a gap analysis will be performed to identify new projects to further protect vulnerable areas, and finally a benefit/cost analysis of projects will be undertaken to determine project priority and viability.	1
STATE	Violet Canal North Levee Alignment	PO-0170	HP	N/A	ST BERNARD	N/A	Not Avail.	Pending	$1,164,000	For the construction of a levee/floodwall in the vicinity of the Violet Canal, to maintain flood protection for the public and provide mutual benefit to the citizens within the territorial jurisdictions of OLD and LBBLD. The floodwall is required for the certification of the Forty Arpent and Florida Avenue levee systems located in Orleans Parish and St. Bernard Parish.	1
STATE	Fontainebleau State Park Mitigation	PO-4355NP4	SP	N/A	ST TAMMANY	6	N/A	1999	$476,104	This project repaired a section of breached shoreline by depositing approximately 9,000 cubic yards of sand for a feeder berm on the easternmost end of Fontainebleau State Park.	1
STATE	Raccoon Island Repair	RI	DM	N/A	TERREBONNE	197	N/A	1994	$1,400,000	This project was a cooperative effort that utilized dredged material and vegetation to repair storm damage to Raccoon Island. Cooperators include the Louisiana Department of Natural Resources/Coastal Restoration Division, Louisiana Department of Wildlife and Fisheries/Fur and Refuge Division, Terrebonne Parish Consolidated Government, South Terrebonne Tidewater Management and Conservation District, T. Baker Smith & Son, Inc., Coastal Engineering & Environmental Consultants, Inc., and Bean Dredging. Federal grant money was also utilized for this project by LDWF and TPCG.	3A
STATE	Spoilbank along the GIWW	SBG	VP	N/A	TERREBONNE	1	N/A	1993	$9,400	This project planted 8,000 feet of spoilbank along the Gulf Intracoastal Waterway with black willow (Salix nigra) and bald cypress (Taxodium distichum) in an effort to reduce further bank erosion. The effectiveness of different types of nutria exclusion devices was also tested.	3A
STATE	Sabine Shellbank Stabilization	SSB	SP	N/A	CAMERON	10	N/A	1990	$66,000	The purpose of this project was to provide natural shoreline protection by using tidal currents to deposit clam shell on the shoreline. The benefits of this design over the use of permanent structures are lower cost, less disturbance of the natural habitat during construction, and allowing natural distribution of sediment and organisms without impediment.	4
STATE	Montegut Wetland	TE-0001	MM	N/A	TERREBONNE	4200	N/A	1993	$5,537,036	The objective of the Montegut Wetland project is to protect and enhance 4,200 acres of degraded wetland habitat in the Pointe au Chein Wildlife Management Area southeast of Montegut, Louisiana.	3A
STATE	Falgout Canal Wetland	TE-0002	MM	N/A	TERREBONNE	1300	N/A	1993, 1995	$1,560,000	The primary objectives of this project were to protect approximately 8,000 acres of marsh and cypress-tupelo swamp, reduce saltwater intrusion, and improve wildlife habitat by moderating water flux and tidal energy in the deteriorating wetland community.	3A
STATE	Bayou LaCache Wetland	TE-0003	MM	N/A	TERREBONNE	4374	N/A	1991, 1996	$2,047,222	The goal of the project is to minimize the effects of saltwater intrusion by increasing the retention of freshwater derived from local runoff and establish control over saltwater flow into the project area.	3A
STATE	Pointe Aux Chien Hydrologic Restoration	TE-0006	MM	N/A	TERREBONNE	4700	N/A	2006	$2,771,819	This cooperative coastal restoration project benefits approximately 4,700 acres of brackish-intermediate marsh within the Pointe Aux Chenes WMA managed by the Louisiana Department of Wildlife and Fisheries. Major funding for the project was provided by Ducks Unlimited and the North American Wetlands Conservation Act.	3A
STATE	Lower Petit Caillou	TE-0007-B	HR	N/A	TERREBONNE	3465	N/A	1995, 2007	$1,536,084	The objective of this project is to decrease saltwater intrusion into the project area by re-routing freshwater discharge from the Lashbrook pumping station through the project area prior to entry into Lake Boudreaux.	3A
STATE	Point Farm Refuge Planting	TE-0014	VP	N/A	TERREBONNE	150	N/A	1995	$226,931	This project was developed to create bottomland hardwood forests on former farmlands within the Point Farm Refuge Area (PFRA). Approximately 108,900 seedlings of bitter pecan (Carya aquatica), water oak (Quercus nigra), and cow oak (Quercus michauxii) (with nutria exclusion devices) were planted on 300 acres of former farmland within the PFRA.	3A
STATE	Morganza to the Gulf	TE-0064	HP	USACE	LAFOURCHE, TERREBONNE	N/A	18	Pending	$136,703,835	The project is currently being designed to provide protection to Terrebonne and portions of Lafourches parishes to provide protection against the project storm event. When complete, the project will consist of the construction of 66 miles of levees and t-walls, navigation structures, water control structures, and floodgates.	3A
STATE	Larose to Golden Meadow - Flood Protection	TE-0065	HP	N/A	LAFOURCHE	N/A	23	2014	$19,820,000	This project includes levee modifications and improvements. The project was allocated $15 million in '08 Surplus and $4.82 million in '09 Surplus.	2, 3A
STATE	Larose to Golden Meadow-Larose Sheetpile	TE-0065-SP	HP	N/A	LAFOURCHE	N/A	0.5	Pending	$8,000,000	This project involves the construction of approximately 2400 feet of sheet pile to an elevation of +13 feet along the GIWW at Larose to increase the level of hurricane protection for the adjacent area.	2
STATE	Lost Lake Vegetation Project	TE-0082	VP	N/A	TERREBONNE	N/A	N/A	2011	$161,000	This project consists of vegetative plantings on the shore and vicinity of Lost Lake.	3A, 3B
STATE	HNC Deepening Section 203 Study	TE-0108	OT	USACE	TERREBONNE	N/A	N/A	Pending	TBD	Feasibility Study and EIS preparation for investigating deepening of the HNC to accommodate the current fleet of large vessels utilizing the navigation channel, as well as the increased need for support of the offshore oil and gas platform fabrication operations along the HNC. This project is being managed by DOTD with interim funding being provided by CPRA.	3A
STATE	Valentine to Larose	TE-0111	HP	N/A	LAFOURCHE	N/A	0.38	2014	$1,000,000	This project provides flood protection improvements to the current flood protection system under local jurisdiction and consists of engineering, design, survey, repair, rehabilitation and possible construction of approximately 2,000 linear feet of levee along Bayou Lafourche, from the town of Valentine to the town of Larose.	2
STATE	St. Mary Backwater Flooding	TE-0116	HP	N/A	ST MARY, TERREBONNE	N/A	1.72	Pending	$5,000,000	This project provides for flood protection improvement to the current Morgan City flood protection system by raising some of the existing levees to elevations as identified in the March 27, 2013 report by T. Baker Smith.	3B

ONGOING PROTECTION AND RESTORATION SUMMARIES

CPRA Program	Name	State Project Number	Project Type	Federal Sponsor	Parish	Acres Benefited	Miles of Levee Improved	Construction Completion	Total Budget	Project Description	Planning Unit
STATE	Yellow Bayou	TV-0002-B	SP	N/A	ST MARY	126	N/A	1992	$194,500	The objectives of the project were to maintain the integrity of approximately 2,000 acres of interior marsh between Jackson Bayou and the British-American Canal and to stabilize 7,465 feet of the East Cote Blanche Bay shoreline. This was achieved by constructing an oyster shell berm adjacent to the water's edge to reduce shoreline erosion.	3B
STATE	Marsh Island Control Structures	TV-0006	MM	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 increase waterfowl food within the water management units. Flap-gated/stoplog culverts and earthen canal plugs were installed in October of 1993 at the northeast and southeast units to control 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.	3B
STATE	Freshwater Bayou Bank Protection	TV-0011	SP	N/A	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 interior water bodies. The dominant project feature consists of the construction of 24,000 linear feet of rock dike, extending north to the confluence of Belle Isle Bayou and Freshwater Bayou. The original project was constructed in 1994; however, repairs were made to the structure in 1996 and 2001.	3B
STATE	Oaks/Avery Structures	TV-0013-B	SP	N/A	VERMILION, IBERIA	160	N/A	2000	$3,107,735	This project enhanced the adjacent CWPPRA-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 Petite Anse south of the GIWW.	3B
STATE	South Central Coastal Plan	TV-0054	OT	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 Restoration, St Mary Parish, St. Martin Parish and Iberia Parish, have initiated a data gathering effort. We anticipate completing this phase of the project by the end of 2010. This information will be used kick 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.	3B
STATE	Morgan City/ St Mary Flood Protection	TV-0055	HP	N/A	ST MARY	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.	3B
STATE	Delcambre-Avery Canal (E&D)	TV-0057	HP	N/A	IBERIA	N/A	N/A	N/A	$970,000	This project will design and engineer a flood control structure for the Delcambre-Avery Canal just south of the Intracoastal Waterway. When constructed this project will provide flood protection improvements by allowing the closure of the Delcambre-Avery Canal to reduce the impact of storm surge from Vermilion Bay.	3B
STATE	Bayou Tigre Flood Control Complex	TV-0075	HP	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 at a closure gate across Bayou Tigre, currently under design as project TV-67. This project will help mitigate ponding and flooding on the protected side caused by flood gate closure during a lengthy rain event.	3B
STATE	Surplus Freshwater Bayou Bank Stabilization	TV-0076	SP	N/A	VERMILION	Not Available	N/A	2016	$1,300,000	This project will utilize $1,300,000 remaining from the ME-0025-SF project to augment the TV-0011B-EB foreshore rock dike feature along Freshwater Bayou.	3B
STATE	Quintana Canal/Cypremort Point	TV-4355NP1	SP	N/A	ST MARY	26	N/A	1998	$1,316,818	The project features approximately 3,650 linear feet of rock breakwaters along the Vermilion Bay shoreline and approximately 3,375 linear feet of foreshore rock dike along the Vermilion Bay/Quintana Canal intersect and the south bank of the Quintana Canal.	3B
STATE	Beneficial Use of I-10 Twin Span Debris (Deauthorized)	N/A	OT	N/A	ORLEANS	N/A	N/A	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 - Phase I	N/A	HP	N/A	JEFFERSON	N/A	N/A	2009	$4,000,000	This project involved the installation of a combination of sheet pile and earthen flood protection, ultimately to an elevation of 10.0 feet along the east side of the Harvey Canal from the sector gate at Lapalco Boulevard to the existing levee at the west end, to provide interim hurricane protection 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	HP	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 Hurricane Protection System. .	2
STATE	Raising of LA 23 at LaReussite	N/A	HP	N/A	PLAQUEMINES	N/A	N/A	2012	$1,200,000	This project involves raising LA Hw. 23 to the elevation of the adjoining La Reussite Siphon guide levees; 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	DM	N/A	TERREBONNE	N/A	N/A	N/A	$300,000	The purpose of this project is to pre-clear the Bay Welsh disposal site adjacent to and east of the Houma Navigation Canal.	3A
STATE	Chabert Ring Levee	N/A	HP	N/A	TERREBONNE	N/A	Not Available	2008	$500,000	The project consists of the design and construction for a segment of levee around the Chabert Medical Center in Houma, Louisiana. The proposed ring levee will surround the Chabert Medical Center and will provide flood protection for the facility allowing operation during possible flood events.	3A
STATE	Wine Island	N/A	DM	N/A	TERREBONNE	N/A	N/A	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	N/A	VP	NRCS	COASTWIDE	N/A	N/A	N/A	$80,000	The NRCS-LDNR/CRD Biomass Program is a multiyear programmatic initiative to accelerate the collection, testing, and release of important coastal wetland restoration plants. The Biomass Program began in 1999 in conjunction with the LDNR/CRD Small-Dredge Program with emphasis on plant performance and dedicated dredged sediment. This program is an important coastal restoration initiative that is advancing coastal wetland plant technology development.	COASTWIDE
STATE	NRCS Biomass Production Program	N/A	VP	NWRC	COASTWIDE	N/A	N/A	N/A	$1,552,100	This multi-year cooperative agreement funds the study of endemic wetland plant productivity, with the goal of identifying specific environmental conditions for maximum growth of a number of varieties (i.e., cultivars) within four plant species. The information obtained is intended to facilitate matching plant species and varieties to expected environmental conditions at restoration sites, thereby increasing the likelihood of successful revegetation efforts.	COASTWIDE
STATE	NRCS Vegetative Planting	N/A	VP	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 Pond Freshwater Diversion	BA-0001	FD	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, nutrients, and sediment. This will counter saltwater intrusion and help offset marsh subsidence. This project can divert up to 10,650 cfs.	2
WRDA	Caernarvon Freshwater Diversion	BS-0008	FD	USACE	PLAQUEMINES	16000	N/A	1991	$24,818,800	This project diverts freshwater and its accompanying nutrients and sediment from the Mississippi River to coastal bays and marshes in Breton Sound for fish and wildlife enhancement. This project can divert up to 8,000 cubic feet per second.	1

Notes:

Program: CWPPRA=Coastal Wetlands Planning, Protection and Restoration Act; State=Restoration projects funded primarily by the State of Louisiana; SECTION 204/1135= Water Resource Development Act Sections 204 and 1135 beneficial use of dredged material projects; WRDA=Water Resources Development Act; LCA=Louisiana Coastal Area; FEMA= Federal Emergency Managment Agency funded projects; CIAP 2007= Coastal Impact Assistance Program; Surplus 07, Surplus 08, Surplus 09=State surplus-funded projects; Other=funded by programs not otherwise listed.

Agency/Sponsor: BOEMRE=Bureau or Ocean Energy Management, Regulation, and Enforcement; EPA=Environmental Protection Agency; FEMA=Federal Emergency Management Agency; HUD=Housing and Urban Development; NMFS=National Marine Fisheries Service; NRCS=Natural Resources Conservation Service; NWRC=National Wetlands Research Center; USFWS=U.S. Fish and Wildlife Service; USACE=U.S. Army Corps of Engineers; USGS=U.S. Geological Survey.

Project Type: BH=Barrier Island/Headland; DM=Beneficial Use of Dredged Material; FD=Freshwater Diversion; HP=Hurricane Protection; HR=Hydrologic Restoration; MC=Marsh Creation; MM=Marsh Management; OM=Outfall Management; OT=other project types (infrastructure, etc.); PP=Property Purchase; SD=Sediment Diversion; SNT=Sediment and Nutrient Trapping; SP=Shoreline Protection; TE=Terraces; VP=Vegetation Planting.

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