



# **Reach A, Hurricane and Storm Damage Risk Reduction Project Morganza to the Gulf of Mexico, Terrebonne Parish, Louisiana**

**Draft**  
**Appendix C – Tables**  
**February 2024**

**Table C-1. Integrated Report Categories (IRC) by which waterbodies are labeled.**

IR Category	IR Category Description
IRC 1	Specific Water body Impairment Combination (WIC) cited on a previous §303(d) list is now attaining all uses and standards. Also used for water bodies that are fully supporting all designated uses.
IRC 2	Water body is meeting some uses and standards but there is insufficient data to determine if uses and standards associated with the specific WIC cited are being attained.
IRC 3	There is insufficient data to determine if uses and standards associated with the specific WIC cited are being attained.
IRC 4a	WIC exists and a TMDL has been completed for the specific WIC cited.
IRC 4b	WIC exists and control measures other than a TMDL are expected to result in attainment of designated uses associated with the specific WIC cited.
IRC 4c	WIC exists and a pollutant (anthropogenic source) does not cause the specific WIC cited.
IRC 5	WIC exists for one or more uses and a TMDL is required for the specific WIC cited. IRC 5 and its subcategories of IRC 5RC and IRC 5-Alt represent Louisiana's §303(d) list.
IRC 5RC (Revise Criteria)	WIC exists for one or more uses and a TMDL is required for the specific WIC cited; LDEQ will investigate revising criteria due to the possibility that natural conditions may be the source of the water quality criteria impairments. IRC 5RC WICs are on Louisiana's §303(d) list.
IRC 5-Alt (Alternative)	WIC exists for one or more uses and a TMDL is required for the specific WIC cited; however, based on the §303(d) long-term vision protocol an alternative approach is expected to achieve water quality goals. IRC 5-Alt WICs are on Louisiana's §303(d) list.

**Table C-2. NRCS Soil Types and Rating with Associated Acreages for the No Action Alternative.**

Soil Type	Rating	Acres	Percent (%)
Allemands muck 0 to 0.2 percent slopes, very frequently flooded	Not prime farmland	218.4	37.2%
Aquents dredged, 1 to 5 percent slopes, occasionally flooded	Not prime farmland	7.6	1.3
Barbary muck 0 to 1 percent slopes, frequently flooded	Not prime farmland	18.4	3.1
Cancienne silt loam 0 to 1 percent slopes	Prime farmland	17.1	2.9
Cancienne silty clay loam 0 to 1 percent slopes	Prime farmland	11.3	1.9
Fausse clay 0 to 1 percent slopes, frequently flooded	Not prime farmland	113.7	19.4
Gramercy-Cancienne silty clay loams 0 to 1 percent slopes	Prime farmland	2.8	0.5
Kenner muck 0 to 1 percent slopes, very frequently flooded	Not prime farmland	71.0	12.1
Larose muck 0 to 0.5 percent slopes, tidal	Not prime farmland	57.3	9.8
Schriever clay 0 to 1 percent slopes, rarely flooded	Prime farmland	2.7	0.5
Schriever clay 0 to 1 percent slopes, frequently flooded	Not prime farmland	58.5	10.0
Water	Not prime farmland	8.5	1.4
Total		587.3	100

**Table C-3. NRCS Soil Types and Rating with Associated Acreages for the Proposed Action Programmatic Features Alternative.**

Soil Type	Rating	Acres	Percent (%)
Allemands muck 0 to 0.2 percent slopes, very frequently flooded	Not prime farmland	65.2	10.4
Aquents dredged, 1 to 5 percent slopes, occasionally flooded	Not prime farmland	24.5	3.9
Barbary muck 0 to 1 percent slopes, frequently flooded	Not prime farmland	1.2	0.2
Cancienne silt loam 0 to 1 percent slopes	Prime farmland	144.0	22.9
Cancienne silty clay loam 0 to 1 percent slopes	Prime farmland	153.5	24.4
Fausse clay 0 to 1 percent slopes, frequently flooded	Not prime farmland	44.9	7.1
Gramercy-Cancienne silty clay loams 0 to 1 percent slopes	Prime farmland	2.8	0.4
Kenner muck 0 to 1 percent slopes, very frequently flooded	Not prime farmland	20.2	3.2
Larose muck 0 to 0.5 percent slopes, tidal	Not prime farmland	4.2	0.7
Schriever clay 0 to 1 percent slopes, rarely flooded	Prime farmland	45.7	7.3
Schriever clay 0 to 1 percent slopes, frequently flooded	Not prime farmland	43.6	6.9
Water	Not prime farmland	78.6	12.5
Total		628.4	100

**Table C-4. NRCS Soil Types and Rating with Associated Acreages for the Proposed Action Constructible Features Alternative.**

Soil Type	Rating	Acre	Percent (%)
Allemands muck 0 to 0.2 percent slopes, very frequently flooded	Not prime farmland	53.9	25.5
Aquents dredged, 1 to 5 percent slopes, occasionally flooded	Not prime farmland	0.4	0.2
Barbary muck 0 to 1 percent slopes, frequently flooded	Not prime farmland	6.2	2.9
Cancienne silt loam 0 to 1 percent slopes	Prime farmland	2.6	1.2
Cancienne silty clay loam 0 to 1 percent slopes	Prime farmland	18.6	8.8
Fausse clay 0 to 1 percent slopes, frequently flooded	Not prime farmland	24.8	11.7
Kenner muck 0 to 1 percent slopes, very frequently flooded	Not prime farmland	42.8	20.2
Larose muck 0 to 0.5 percent slopes, tidal	Not prime farmland	56.5	26.7
Schriever clay 0 to 1 percent slopes, rarely flooded	Prime farmland	5.0	2.4
Schriever clay 0 to 1 percent slopes, frequently flooded	Not prime farmland	0.5	0.3
Total		211.4	100

**Table C-5. Previously Constructed Wetland or Ecosystem Restoration Projects in the Morganza to the Gulf Study Area**

Program	Parish	Year Constructed	Project Description
CDBG (TE-63): Cut-Off/Pointe Aux Chene Levee	Terrebonne	2017	Construction of Segment 2 of Reach E of the Falgout Canal Road Levee, which will be approximately 1.8 miles long. <sup>[1]</sup>
CDBG (TE-78): Cut-Off/Pointe aux Chene Levee	Lafourche	2019	Gap filling the existing Cut-Off/Pointe aux Chene levee system. The 2.5 miles levee will be constructed along Grand Bayou and tie into the existing levee systems on each end. <sup>[1]</sup>
CIAP (BA-55) LA 1 Improvements - Fourchon to Leeville Bridge	Lafourche	2010	Construction of a 5 mile long, two lane elevated highway located 60 miles south of New Orleans in lower Lafourche Parish between Leeville and Port Fourchon relocating LA 1 on a new alignment. <sup>[1]</sup>
CIAP (TE-43-EB): GIWW Bank Restoration of Critical Areas in Terrebonne	Terrebonne	2011	Restoration of deteriorated channel banks with shoreline stabilization materials. <sup>[1]</sup>
CIAP (TE-125): Bush Canal and Bayou Terrebonne Bank Stabilization	Terrebonne	2007	Reconstruction and bank protection of the south bank of Bush Canal using material dredged from the canal to diminish storm surge erosion and reduce saltwater intrusion. This project was funded by the CIAP of 2001. <sup>[3]</sup>
CWPPRA (LA-05): Floating Marsh Creation Demonstration	Terrebonne	2006	Test the creation of floating marsh made of buoyant vegetated mats or artificial islands. <sup>[1]</sup>
CWPPRA (TE-17): Falgout Canal Planting Demonstration	Terrebonne	1996	Vegetation planting and wave dampening devices placed along the Falgout Canal. <sup>[1]</sup>
CWPPRA (TE-22): Point au Fer Canal Plugs	Terrebonne	1997	Reduction of saltwater intrusion into Point au Fer marshes without reducing freshwater back flooding from the Atchafalaya River. <sup>[1]</sup>
CWPPRA (TE-23): West Belle Pass Headland Restoration	Lafourche	1998	Creation of marsh on the west side of Belle Pass via dredged materials to reduce the encroachment of Timbalier Bay into the marshes on the west side of Bayou Lafourche. A water control structure was placed in the Evans Canal and plugs on the other canals. <sup>[1]</sup>
CWPPRA (TE-26): Lake Chapeau Sediment Input and Hydrologic Restoration, Point Au Fer	Terrebonne	1999	Restoration of marshes west of Lake Chapeau, re-establishment of Locust Bayou and Alligator Bayou watersheds hydrologic separation, and re-establishment of the natural drainage patterns within the Lake Chapeau area. <sup>[1]</sup>
CWPPRA (TE-28): Brady Canal Hydrologic Restoration	Terrebonne	2000	Maintenance of fragile, highly-fragmented transitional marshes between the fresh and estuarine zones by enhancing freshwater, sediment, and nutrient delivery to the area. <sup>[1]</sup>
CWPPRA (TE-34): Penchant Basin Natural Resources Plan, Increment 1	Terrebonne	2011	Freshwater flow diversion from northwestern to southeastern sub project area coupled with protection measures to reduce inundation of fragile marsh areas in Penchant Basin. <sup>[1]</sup>
CWPPRA (TE-39): South Lake Decade Freshwater Introduction	Terrebonne	2011	Construction of a water control structure in the southern bank of Lake DeCade to increase Atchafalaya River water flow and sediment into the marshes south of the lake. In addition, construction of shoreline protection adjacent to the structure, and Lapeyrouse Bayou weir removal. <sup>[1]</sup>
CWPPRA (TE-41): Mandalay Bank Protection Demonstration	Terrebonne	2003	New technique development assessing low-cost solutions for restoring habitat in blowout areas and preventing bank erosion in easily erodable organic soils. <sup>[1]</sup>
CWPPRA (TE-43): GIWW Bank Restoration of Critical Areas in Terrebonne	Terrebonne	2014	Restoration of critical lengths of deteriorated channel banks and stabilize/armor selected critical lengths of deteriorated channel banks with shoreline stabilization materials. <sup>[1]</sup>
CWPPRA (TE-44): North Lake Mechant Landbridge Restoration	Terrebonne	2009	Maintenance and restoration of the landbridge between Lake Mechant north shoreline and the Small Bayou La Pointe Ridge, which provides a hydrologic barrier between brackish and low-salinity habitats. <sup>[1]</sup>
CWPPRA (TE-45): Terrebonne Bay Shoreline Protection Demonstration	Terrebonne	2007	Evaluate several different shoreline protection methods, including concrete mats, artificial oyster reefs, and A-Jacks. <sup>[1]</sup>
CWPPRA (TE-46): West Lake Boudreaux Shoreline Protection and Marsh Creation	Terrebonne	2008	Creation and nourishment of marsh along the Lake Boudreaux western shoreline to protect the shoreline from erosion and to restore interior marsh. <sup>[1]</sup>
CWPPRA (TE-52): West Belle Pass Barrier Headland Restoration	Lafourche	2012	Re-establishment of the West Belle headland by rebuilding a large portion of the beach, dune, and back barrier marsh that once existed. <sup>[1]</sup>
CWPPRA (TE-72): Lost Lake Marsh Creation and Hydrologic Restoration	Terrebonne	2018	Restoration of the structural framework between Lake Paige and Bayou Decade to prevent the coalescence of those two water bodies and increase the delivery of fresh water, sediments, and nutrients into the marshes north and west of Lost Lake including the reduction of fetch in open water area via construction of a terrace field. <sup>[1]</sup> This projects is a part of the State Master Plan 2017: 03a.MC.101 North Lake Mechant Marsh Creation.

Program	Parish	Year Constructed	Project Description
CWPPRA (TE-138): Bayou DeCade and Marsh Creation	Terrebonne	2022	Restoration of Bayou DeCade northern ridge; creation and nourishment of marsh adjacent to Lake DeCade. <sup>[1, 3]</sup>
GOMESA (AT-17): Bayou Chene Floodgate	St Mary	2022	Installation of a floodgate in Bayou Chene, St. Mary Parish to reduce backwater flooding from the Atchafalaya River during a Mississippi River high water event. <sup>[1, 4]</sup>
GOMESA (TE-148): 40 Arpent Canal Levee - Lockport Co. Canal to Butch Hill Station	Lafourche	2021	Elevation of a portion of the 40 Arpent Levee system in Lafourche Parish to increase levee stability and prevent failures during high water event. <sup>[1]</sup>
GOMESA (TE-151): Grand Bayou Floodgate	Lafourche	2021	Improvements to the Morganza to the Gulf hurricane protection system. <sup>[1]</sup>
GOMESA (TE-152): Storm Surge Risk Reduction for US-90 at Bayou Folse	Lafourche	2020	Construction of approximately 1,500 linear feet of levee from Bayou Folse to the HWY 90 embankment, with a tie-in at HWY 90 that will allow the NLLD to raise existing levees in this drainage district to an elevation of 6.5 ft. NAVD88. <sup>[1]</sup>
GOMESA (TE-155): Falgout Canal Structure	Terrebonne	2019	Construction of a 40-ft-wide floodgate across Falgout Canal along with approximately 700 ft of sheet pile floodwall (elevation +18 ft NAVD88) and associated levee tie-ins connecting the Reach B Falgout Canal South and North levee tie-ins of the Morganza to the Gulf Hurricane Risk Reduction System. <sup>[1]</sup>
GOMESA (TE-159): Elliot Jones Pump Station	Terrebonne	2023	Flood damage risk reduction measures and levee tie-ins that benefit the community of Gibson in Terrebonne Parish. <sup>[1, 3, 6]</sup>
LWCRPA (LA-01D): Terrebonne School Board Site - Dedicated Dredging	Terrebonne	2006	The creation of approximately 40 acres of marsh just north of Lake DeCade along the western back of Minors Canal. <sup>[1]</sup>
LWCRPA (LA-01E): Grand Bayou Blue Site - Dedicated Dredging	Lafourche	2007	The creation of approximately 40 acres of marsh near Catfish Lake as part of the Dedicated Dredging Program. <sup>[1]</sup>
LWCRPA (LA-01F): Dedicated Dredging - Point au Fer	Terrebonne	2007	The creation of approximately 67 acres of marsh on Point au Fer Island as part of the Dedicated Dredging Program. <sup>[1]</sup>
LWCRPA (TE-01): Montegut Wetland	Terrebonne	1993	Protection and enhancement of degraded wetland habitat in the Pointe aux Chenes Wildlife Management Area southeast of Montegut, Louisiana. <sup>[1]</sup>
LWCRPA (TE-02): Falgout Canal Wetland	Terrebonne	1993, 1995	Protect marsh and cypress-tupelo swamp, reduce saltwater intrusion, and improve wildlife habitat by moderating water flux and tidal energy in the deteriorating wetland community. <sup>[1]</sup>
LWCRPA (TE-03): Bayou Lacache Wetland	Terrebonne	1991, 1996	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. <sup>[1]</sup>
LWCRPA (TE-06): Pointe-aux-Chenes Hydrologic Restoration	Lafourche	2006	Restoration of brackish-intermediate marsh within the Pointe Aux Chenes Wildlife Management Area. <sup>[1]</sup>
LWCRPA (TE-07B): Lower Petit Caillou	Terrebonne	1995, 2007	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. <sup>[1]</sup>
LWCRPA (TE-14): Point Farm Refuge Planting	Terrebonne	1995	This project was developed to create bottomland hardwood forest in former Point Farm Refuge Area. <sup>[1]</sup>
LWCRPA (TE-65): Larose to Golden Meadow - Flood Protection	Lafourche	2014	Design and construction of improvements to multiple reaches within the Larose to Golden Meadow hurricane protection system to reduce hurricane storm surge risk. <sup>[1]</sup>
LWCRPA (TE-65-SP): Larose to Golden Meadow - Larose Sheetpile	Lafourche	2017	Construction of over 2400 feet of sheet pile to an elevation of +13 ft NAV88 along the GIWW at Larose to increase the level of hurricane protection for the adjacent area. <sup>[1]</sup>
LWCRPA (TE-82): Lost Lake Vegetation Project	Terrebonne	2011	This project consists of vegetative plantings on the shore and vicinity of Lost Lake. <sup>[1]</sup>
LWCRPA (TE-84): Chabert Hospital Levee	Terrebonne	2008	These funds were used to partially fund a levee around the Chabert Hospital in Terrebonne Parish. <sup>[1]</sup>
LWCRPA (TE-105 OR BRM-01): Brown Marsh	Lafourche	2002	Project features consisted of a thin layer marsh creation and nourishment covering 44 acres in Lafourche Parish. <sup>[1]</sup>
LWCRPA (TE-106 or RI): Raccoon Island Repair	Terrebonne	1994	This project was a cooperative effort that utilized dredged material and vegetation to repair storm damage to Raccoon Island. <sup>[1]</sup>
LWCRPA (TE-107 or SBG): Spoilbank Along the GIWW	Terrebonne	1993	Trees planted along approximately 8,000 feet of the GIWW spoilbank in an effort to reduce further bank erosion. <sup>[1]</sup>

Program	Parish	Year Constructed	Project Description
LWCRPA (TE-111): Valentine to Larose	Lafourche	2014	Flood protection improvements to the current flood protection system along over 2,000 linear feet of levee along Bayou Lafourche, from Valentine to Larose. <sup>[1]</sup>
LWCRPA (TE-135): Raising of LA-1 at Golden Meadow Floodgate and Completion of Golden	Lafourche	2010	Raising of LA-1 to the 100-year flood elevation and to complete the lock in Bayou Lafourche, as part of the Larose to Golden Meadow Hurricane Protection System. <sup>[1, 8]</sup>
LWCRPA (TE-153): Lacache Pump Station	Terrebonne	2021	This project involves rehabilitation of the existing LaCache Pump Station in Terrebonne Parish to improve operation and reduce long-term maintenance costs. <sup>[1]</sup>
NFWF (TE-143): Terrebonne Basin Barrier Island	Terrebonne	2022	Creation and enhancement of beach, dune, and marsh habitat within the Terrebonne Basin barrier shoreline system. <sup>[1, 3, 14]</sup>
NOV Mitigation Bank Purchase: Lake Long Coastal	Lafourche	2014	Mitigation bank purchase to mitigate for 2.30 acres of Fresh Marsh as a result of the construction of NOV. <sup>[33]</sup>
NOV Mitigation Bank Purchase: Sucre Brut Coastal	Lafourche	2021/2022	Mitigation bank purchase to mitigate for 23.90 acres of BLH-Wet habitat in 2021 and 94 acres of Swamp habitat in 2022 as a result of the construction of NOV. <sup>[33]</sup>
NRDA (AT-20) Atchafalaya Delta WMA Campground Improvements	St. Mary	2022	Improvements to the existing Wax Lake Outlet Campground in the Atchafalaya Delta WMA to enhance recreational opportunities. Project features include bulkhead installation along the campground approximately 30 feet from existing shoreline, sediment placement behind bulkhead to restore lost acreage of the campground, and jetty construction to stabilize the bank and bulkhead. <sup>[1]</sup>
NRDA (TE-144): Island Road Fishing Piers	Terrebonne	2020	Construction of five small parking lots, or vehicle pull overs, with adjoining fishing piers along Island Road in the Pointe-aux-Chenes WMA in Terrebonne Parish. <sup>[1]</sup>
WRDA (BA-01): Davis Pond Freshwater Diversion and Forced Drainage Area	Jefferson; Lafourche; Plaquemines; St. Charles	2002	Diversion of freshwater, nutrients and sediment from the Mississippi River through the Davis Pond freshwater diversion structure into the surrounding marsh areas to maintain and enhance the ecosystem of the Barataria Basin. <sup>[1]</sup>

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**Table C-6. Reasonably Foreseeable Wetland or Ecosystem Restoration Projects in the Morganza to the Gulf Study Area**

Program	Parish	Description
CWPPRA (TE-117): Island Road Marsh Creation & Nourishment	Terrebonne	Creation and nourishment of marsh adjacent to Island Road using sediment dredged from Lake Tambour and vegetative plantings on the stabilize platform. Construction is anticipated to begin on Fall 2024 and is anticipated for completion Winter 2026. <sup>[1, 3]</sup>
CWPPRA (TE-134): West Fourchon Marsh Creation & Nourishment	Lafourche	This project involves the creation of 302 acres and nourishment of 312 acres of marsh between Bayou Lafourche and Timbalier Bay in Lafourche Parish using sediment dredged from the Gulf of Mexico. Construction is anticipated to begin on Winter 2024 and is anticipated for completion Spring 2025. <sup>[1, 8]</sup>
DU (PFT): Port Fourchon Terraces	Lafourche	Construction of terraces in the open water areas east of Highway 1, in the vicinity of southeast Leesville, La. Construction of funded terraces to begin in October 2023, currently funded – about 66,000 LF. <sup>[34]</sup>
DU (RPII): Raccourci Terraces Phase II	Terrebonne	Construction of terrace features in the open water areas between Lake Paige and Raccourci Bay. Construction anticipated to begin summer 2024. Currently funded – 51,750 linear feet. <sup>[34]</sup>
GOMESA (BA-249): Larose Floodwall	Lafourche	Floodwall construction of Larose to Golden Meadow. Construction began before Summer 2023 and is anticipated for completion Spring 2024. <sup>[1]</sup>
GOMESA (BA-250): Section F Berm Improvement	Lafourche	Berm improvement of Section F of Larose to Golden Meadow. Construction began on Summer 2023 and is anticipated for completion Summer 2024. <sup>[1]</sup>
GOMESA (BA-263): MTG Eastern Tie-in Levee Improvements	Lafourche	Level improvements to Morganza to the Gulf Tie-in Levee. Construction began on Spring 2024 and is anticipated for completion Spring 2025 <sup>[1]</sup>
GOMESA (TE-147): Hollywood Canal Closure Structure	Lafourche	Construction of a closure structure in Hollywood Canal for flood risk reduction. Construction began before Summer 2023 and is anticipated for completion Winter 2024. <sup>[1, 8]</sup>
GOMESA (TE-167): Morganza to the Gulf Reach E Levee Lift	Terrebonne	Construction of levee improvements and other features along Reach E of the Morganza to the Gulf System. Construction began before Summer 2023 and is anticipated for completion Winter 2024. <sup>[1]</sup>
GOMESA (TE-175): Reach D2/D3 Levee Improvements	Terrebonne	Lockport to Larose Hurricane Protection System Reach D2/D3 Levee Improvements. Construction began before Summer 2023 and is anticipated for completion Spring 2024. <sup>[1]</sup>
LWCPRA (BA-255): Lockport to Larose Reach B1	Lafourche	Enhancement to the Lockport to Larose Reach B1. Construction began in Fall 2023 and is anticipated for completion in Summer 2024. <sup>[1]</sup>
LWCPRA (BA-259): Ted Gisclair Lock Structure	Lafourche	Conversion of the Larose "Ted Gisclair" floodgate into a lock. Construction began in Fall 2023 and is anticipated for completion in Fall 2025. <sup>[1]</sup>
LWCPRA (BA-261): MTG Improvements - NLLD	Lafourche	Morganza to the Gulf levee improvement. Part of the North Lafourche Levee District. Construction is anticipated to begin in Winter 2024 and is anticipated for completion in Spring 2025. <sup>[1]</sup>
LWCPRA (TE-154): Larose to Golden Meadow System Improvements	Lafourche	Design and construction of multiple features within the Larose to Golden Meadow hurricane protection system to reduce hurricane storm surge risk reduction to communities within the system. Construction began before Summer 2023 and is anticipated for completion in Winter 2025 <sup>[1, 8]</sup>
LWCPRA (TE-0158): Reach L Levee		Mitigation for the construction of South Lafourche Levee District Reach L Levee. Construction began before Summer 2023 and is anticipated for completion Winter 2023. <sup>[1, 8]</sup>
LWCPRA (TE-0161): North Lafourche Levee Improvements	Lafourche	Levee modifications and improvements to Reach 2 of the Eastern Alignment of the MTOG project. Construction began before Summer 2023 and is anticipated for completion Spring 2024. <sup>[1, 8]</sup>
LWCPRA (TE-0174): MTG Improvements - TLCD	Terrebonne	Improvements to the Morganza to the Gulf levee system in the Terrebonne Levee District. Construction began in Fall 2023 and is anticipated for completion in Winter 2025. <sup>[1]</sup>
NFWF/NRDA (BA-153): Mid-Barataria Sediment Diversion	Jefferson	Diversion of sediment-laden water from the Mississippi River into mid-Barataria Basin. Restoration north of Ironton near River Mile 60.7. Construction began before Summer 2023 and is anticipated for completion in Spring 2026. <sup>[1, 5]</sup>
NRDA (TE-139): Terrebonne Basin Ridge and Marsh Creation - Bayou Terrebonne	Terrebonne	Ridge and marsh creation in an area along the east bank of Bayou Terrebonne. Construction anticipated to begin Winter 2024 and is anticipated for completion after Spring 2026. <sup>[1, 3]</sup>

Program	Parish	Description
NRDA (TE-146): Pointe-aux-Chenes WMA Enhancement	Terrebonne and Plaquemines	Recreational enhancements within Pointe aux Chenes WMA. ~ Construction anticipated for completion in 2023. <sup>[1]</sup>
NRDA (TE-170): Bayou Dularge Ridge and Marsh Creation	Terrebonne	Ridge restoration and marsh nourishment and creation near Bayou Dularge. Construction is anticipated to begin in Spring 2024 and is anticipated for completion Summer 2025. <sup>[1, 3]</sup>
RESTORE (TE-113): Houma Navigation Canal Lock Complex	Terrebonne; Lafourche	Construction of earthen levees, t-walls, navigation structures, water control structures, and floodgates designed to provide 100-year protection levels along the federally authorized Morganza to the Gulf alignment in Terrebonne and parts of Lafourche parishes. The <sup>[1, 2]</sup>

**Table C-7. Additional Authorized Projects in the Morganza to the Gulf Study Area**

Program	Parish	Description
Louisiana DOTD/FHWA: Future I-49 South, Raceland to the Westbank Expressway (700-92- 0011) and Morgan City to Raceland	St. Charles; Lafourche; Terrbonne	Proposed construction of an elevated extension to US Interstate 49 South along the US 90 corridor from the Louisiana Highway 1 interchange in Raceland, Louisiana to the Westbank Expressway near Ames Boulevard in Marrero, Louisiana. The project also includes the connection of the southern terminus of US Interstate 310 with US Interstate 49. The Record of Decision for the project was signed in January 2008. The Morgan City to Raceland project has been completed, but the Raceland to the Westbank Expressway is not yet complete. (USDOT, 2008; I49 International Coalition, 2018) <a href="http://www.interstate49.org/index.php?page=louisiana">http://www.interstate49.org/index.php?page=louisiana</a>

**Table C-8. Regional projects considered in the cumulative effects analysis**

(+) positive impact, (-) negative impact, (+/-) positive and negative impact, (o) no impact

Program	Project Type	Wetlands and Other Surface Waters	Wildlife	Threatened and Endangered Species	Fisheries, Aquatic Resources, and Water Quality	Essential Fish Habitat	Recreational Resources	Aesthetic Resources	Air Quality	Noise	Socioeconomics	Environmental Justice*
CDBG (TE-63): Falgout Canal Road Levee	STRUCTURE	+/-	+/-	o	+/-	+/-	-	-	o	o	+	(C +), (T+/-), (WK, HL o)
CDBG (TE-78): Cut-Off/Pointe aux Chene Levee	STRUCTURE	+/-	+/-	o	o	o	+/-	-	o	o	+	o
CIAP (TE-0043-EB): GIWW Bank Restoration of Critical Areas in Terrebonne	SHORELINE PROTECTION	+/-	+/-	o	+/-	+/-	o	-	o	o	+	o
CIAP (TE-125): Bush Canal and Bayou Terrebonne Bank Stabilization	SHORELINE PROTECTION	+/-	+	o	+/-	+/-	o	-	o	o	+	(C +), (T, HL o)
CWPPRA (LA-05): Floating Marsh Creation Demonstration	MARSH CREATION	+/-	+/-	o	+/-	+/-	o	o	o	o	o	o
CWPPRA (TE-17): Falgout Canal Planting Demonstration	SHORELINE PROTECTION	+/-	+/-	o	+/-	O	+/-	-	o	o	+	(C +), (T o)

Program	Project Type	Wetlands and Other Surface Waters	Wildlife	Threatened and Endangered Species	Fisheries, Aquatic Resources, and Water Quality	Essential Fish Habitat	Recreational Resources	Aesthetic Resources	Air Quality	Noise	Socioeconomics	Environmental Justice*
CWPPRA (TE-22): Point au Fer Canal Plugs	HYDROLOGIC RESTORATION	+/-	+/-	+/-	+/-	+/-	-	-	o	o	+	(C +), (T o)
CWPPRA (TE-23): West Belle Pass Headland Restoration	HABITAT RESTORATION	+/-	+/-	+/-	+/-	+/-	o	+/-	o	o	o	(C +), (T o)
CWPPRA (TE-26): Lake Chapeau Sediment Input and Hydrologic Restoration, Point Au Fer Island	HYDROLOGIC RESTORATION	+	+	o	+	+	+	o	o	o	o	(C +), (WF, T o)
CWPPRA (TE-28): Brady Canal Hydrologic Restoration	HYDROLOGIC RESTORATION	+	+	o	+	+	o	o	o	o	o	(C +), (T o)
CWPPRA (TE-34): Penchant Basin Natural Resources Plan, Increment 1	DIVERSION	+	+/-	o	+/-	+/-	+/-	+/-	o	+/-	o	(C +), (T o)
CWPPRA (TE-39): South Lake Decade Freshwater Introduction	HYDROLOGIC RESTORATION	+	+	o	+/-	+/-	o	+/-	o	o	o	(C +), (T o)
CWPPRA (TE-41): Mandalay Bank Protection Demonstration	HABITAT RESTORATION	+/-	+/-	o	+/-	+/-	o	o	o	o	o	o

Program	Project Type	Wetlands and Other Surface Waters	Wildlife	Threatened and Endangered Species	Fisheries, Aquatic Resources, and Water Quality	Essential Fish Habitat	Recreational Resources	Aesthetic Resources	Air Quality	Noise	Socioeconomics	Environmental Justice*
CWPPRA (TE-43): GIWW Bank Restoration of Critical Areas in Terrebonne	SHORELINE PROTECTION	+/-	+	o	+/-	+/-	+/-	-	o	o	+	o
CWPPRA (TE-44): North Lake Mechant Landbridge Restoration	SHORELINE PROTECTION	+/-	+/-	o	+/-	+/-	+/-	-	o	o	+	(C+), (T o)
CWPPRA (TE-45): Terrebonne Bay Shoreline Protection Demonstration	SHORELINE PROTECTION	+/-	+/-	o	+/-	+/-	+/-	-	o	o	+	(C+), (T, HL o)
CWPPRA (TE-46): West Lake Boudreaux Shoreline Protection and Marsh Creation	SHORELINE PROTECTION/MARSH CREATION	+/-	+/-	o	+/-	o	+/-	+/-	o	o	+	(C+), (WF, T, HL o)
CWPPRA (TE-52): West Belle Pass Barrier Headland Restoration	HABITAT RESTORATION	+/-	+/-	+/-	+/-	-	+	+	o	o	o	(C+), (T o)
CWPPRA (TE-72): Lost Lake Marsh Creation and Hydrologic Restoration	MARSH CREATION/HYDROLOGIC RESTORATION			o	+/-	+/-	o	o	o	o	o	(C+), (T o)
CWPPRA (TE-117): Island Road Marsh Creation & Nourishment	MARSH CREATION	+/-	+/-	o	+/-	o	+/-	+	o	o	+	(C+), (T, HL o)

Program	Project Type	Wetlands and Other Surface Waters	Wildlife	Threatened and Endangered Species	Fisheries, Aquatic Resources, and Water Quality	Essential Fish Habitat	Recreational Resources	Aesthetic Resources	Air Quality	Noise	Socioeconomics	Environmental Justice*
CWPPRA (TE-134): West Fourchon Marsh Creation & Nourishment	MARSH CREATION	+/-	+/-	+/-	+/-	o	+/-	+	o	o	+	(C+), (T o)
CWPPRA (TE-138): Bayou DeCade and Marsh Creation	MARSH CREATION	+/-	+/-	o	-	+/-	+/-	+	o	o	+	(C+), (T o)
DU (PFT): Port Fourchon Terraces	SHORELINE PROTECTION	+/-	+/-	o	+/-	+/-	+/-	-	o	o	+	(C+)
DU (RPII): Raccourci Terraces Phase II	SHORELINE PROTECTION	+/-	+/-	o	+/-	+/-	+/-	-	o	o	+	(C+), (T o)
GOMESA (AT-17): Bayou Chene Floodgate	STRUCTURE	+/-	+/-	o	+/-	+/-	+/-	-	o	+/-	+	(C+), (WK, E o)
GOMESA (BA-249): Larose Floodwall	STRUCTURE	+/-	-	o	+/-	+/-	-	-	o	o	+	(C+)
GOMESA (BA-250): Section F Berm Improvement	STRUCTURE	+/-	-	o	o	+/-	-	-	o	o	+	(C+)

Program	Project Type	Wetlands and Other Surface Waters	Wildlife	Threatened and Endangered Species	Fisheries, Aquatic Resources, and Water Quality	Essential Fish Habitat	Recreational Resources	Aesthetic Resources	Air Quality	Noise	Socioeconomics	Environmental Justice*
GOMESA (BA-263): MTG Eastern Tie-in Levee Improvements	STRUCTURE	+/-	+/-	o	+/-	o	o	-	o	o	+	o
GOMESA (TE-147): Hollywood Canal Closure Structure	STRUCTURE	+/-	+/-	o	-	o	-	-	o	o	+	(C+)
GOMESA (TE-148): 40 Arpent Canal Levee - Lockport Co. Canal to Butch Hill Station	STRUCTURE	+/-	+/-	o	+/-	o	o	-	o	o	+	(C+)
GOMESA (TE-151): Grand Bayou Floodgate	STRUCTURE	+/-	+/-	o	-	o	+/-	-	o	+/-	+	o
GOMESA (TE-152): Storm Surge Risk Reduction for US-90 at Bayou Folse	STRUCTURE	-	+/-	o	o	o	o	-	o	o	+	(C+)
GOMESA (TE-155): Falgout Canal Structure	STRUCTURE	+/-	+/-	o	-	+/-	+/-	-	o	+/-	+	(C+), (T+/-)
GOMESA (TE-159): Elliot Jones Pump Station	STRUCTURE	+/-	+/-	o	+/-	o	+/-	-	o	-	+	(C+)



Program	Project Type	Wetlands and Other Surface Waters	Wildlife	Threatened and Endangered Species	Fisheries, Aquatic Resources, and Water Quality	Essential Fish Habitat	Recreational Resources	Aesthetic Resources	Air Quality	Noise	Socioeconomics	Environmental Justice*
GOMESA (TE-167): Morganza to the Gulf Reach E Levee Lift	STRUCTURE	+/-	+/-	o	+/-	o	+/-	-	o	-	+	(C+), (T +/-)
GOMESA (TE-175): Reach D2/D3 Levee Improvements	STRUCTURE	+/-	+/-	o	+/-	+/-	o	-	o	-	+	o
LWCPRA (BA-255): Lockport to Larose Reach B1	STRUCTURE	+/-	+/-	o	o	o	+/-	-	o	+/-	+	o
LWCPRA (BA-259): Ted Gisclair Lock Structure	STRUCTURE	+/-	+/-	o	-	+/-	+/-	o	o	+/-	+	(C+)
LWCPRA (BA-261): MTG Improvements - NLLD	STRUCTURE	+/-	+/-	o	+/-	o	o	-	o	o	+	o
LWCRPA (LA-01D): Terrebonne School Board Site - Dedicated Dredging	MARSH CREATION	+/-	+/-	o	-	o	+/-	+	o	o	+	(C+), (T o)
LWCRPA (LA-01E): Grand Bayou Blue Site - Dedicated Dredging	MARSH CREATION	+/-	+/-	o	-	o	+/-	+	o	o	+	(C+), (T o)

Program	Project Type	Wetlands and Other Surface Waters	Wildlife	Threatened and Endangered Species	Fisheries, Aquatic Resources, and Water Quality	Essential Fish Habitat	Recreational Resources	Aesthetic Resources	Air Quality	Noise	Socioeconomics	Environmental Justice*
LWCRPA (LA-01F): Dedicated Dredging - Point au Fer	MARSH CREATION	+/-	+/-	+/-	-	+/-	+/-	+	o	o	+	(C +), (T o)
LWCRPA (TE-01): Montegut Wetland	HABITAT ENHANCEMENT	+	+	+	+/-	o	+/-	+	o	o	o	(C +), (T, HL o)
LWCRPA (TE-02): Falgout Canal Wetland	HYDROLOGIC RESTORATION	+	+	o	+/-	o	+	+	o	o	o	(C +), (T o)
LWCRPA (TE-03): Bayou Lacache Wetland	HYDROLOGIC RESTORATION	+	+	o	+/-	+/-	o	-	o	o	o	(C +), (T, HL o)
LWCRPA (TE-06): Pointe-aux-Chenes Hydrologic Restoration	HYDROLOGIC RESTORATION	+/-	+	o	+/-	o	+	o	o	o	o	(C +), (T, HL o)
LWCRPA (TE-07B): Lower Petit Caillou	HYDROLOGIC RESTORATION	+	+	o	+/-	o	o	o	o	o	o	(C +), (T, HL o)
LWCRPA (TE-14): Point Farm Refuge Planting	HABITAT RESTORATION	+/-	+/-	+	+/-	o	+	+	o	o	o	(C +), (T, HL o)

Program	Project Type	Wetlands and Other Surface Waters	Wildlife	Threatened and Endangered Species	Fisheries, Aquatic Resources, and Water Quality	Essential Fish Habitat	Recreational Resources	Aesthetic Resources	Air Quality	Noise	Socioeconomics	Environmental Justice*
LWCRPA (TE-65): Larose to Golden Meadow - Flood Protection	STRUCTURE	+/-	+/-	o	+/-	+/-	+/-	-	o	o	+	(C +), (T +/-), (HL o)
LWCRPA (TE-65-SP): Larose to Golden Meadow - Larose Sheetpile	STRUCTURE	+/-	-	o	+/-	+/-	o	-	o	o	+	(C +)
LWCRPA (TE-82): Lost Lake Vegetation Project	HABITAT RESTORATION	+/-	+	+	+/-	+	o	+	o	o	o	(C +), (T o)
LWCRPA (TE-84): Chabert Hospital Levee	STRUCTURE	o	o	o	o	o	o	-	o	o	+	(C +), (T +/-), (WF, HL o)
LWCRPA (TE-105 OR BRM-01) Brown Marsh	MARSH CREATION	+/-	+/-	+/-	+/-	o	+	+	o	o	o	(C +), (T o)
LWCRPA (TE-106 or RI): Raccoon Island Repair	HABITAT RESTORATION	+/-	+	+	+/-	+/-	+	+	o	o	o	(C +), (T, HL o)
LWCRPA (TE-107 or SBG): Spoilbank Along the GIWW	SHORELINE PROTECTION	+/-	+	o	+/-	+/-	o	+/-	o	o	+	o

Program	Project Type	Wetlands and Other Surface Waters	Wildlife	Threatened and Endangered Species	Fisheries, Aquatic Resources, and Water Quality	Essential Fish Habitat	Recreational Resources	Aesthetic Resources	Air Quality	Noise	Socioeconomics	Environmental Justice*
LWCRPA (TE-111): Valentine to Larose	STRUCTURE	+/-	+/-	o	+/-	o	-	-	o	o	+	o
LWCRPA (TE-135): Raising of LA-1 at Golden Meadow Floodgate and Completion of Golden Meadow Lock Structure	STRUCTURE	+/-	+/-	o	-	+/-	+/-	-	o	o	+	(C+), (T +/-)
LWCRPA (TE-153): Lacache Pump Station	STRUCTURE	+/-	+/-	o	+/-	+/-	+/-	-	o	+/-	+	(C+), (T +/-), (HL o)
LWCPRA (TE-154): Larose to Golden Meadow System Improvements	STRUCTURE	+/-	+/-	o	+/-	+/-	o	-	o	o	+	(C+), (T +/-), (HL o)
LWCPRA (TE-158): Reach L Levee	STRUCTURE	+/-	+/-	o	+/-	o	o	-	o	o	+	o
LWCPRA (TE-161): North Lafourche Levee Improvements	STRUCTURE	+/-	+/-	o	+/-	o	o	-	o	o	+	o
LWCPRA (TE-174): MTG Improvements - TLCD	STRUCTURE	+/-	+/-	o	+/-	o	+/-	-	o	o	+	(C+), (T +/-), (WK, HL o)

Program	Project Type	Wetlands and Other Surface Waters	Wildlife	Threatened and Endangered Species	Fisheries, Aquatic Resources, and Water Quality	Essential Fish Habitat	Recreational Resources	Aesthetic Resources	Air Quality	Noise	Socioeconomics	Environmental Justice*
NFWF/NRDA (BA-153): Mid-Barataria Sediment Diversion	DIVERSION/HABITAT RESTORATION	+/-	+/-	+/-	+/-	+/-	+/-	+/-	o	o	o	(C +), (E, HS, HL o)
NFWF (TE-143): Terrebonne Basin Barrier Island	HABITAT RESTORATION	+/-	+/-	+/-	+/-	+/-	+	+	o	o	+	(C +), (E, T, HL o)
NOV Mitigation Bank Purchase: Lake Long Coastal	HABITAT PRESERVATION	+	+	o	+	+	o	+	o	o	o	(C +)
NOV Mitigation Bank Purchase: Sucre Brut Coastal	HABITAT PRESERVATION	+	+	o	+	+	o	+	o	o	o	o
NRDA (TE-139): Terrebonne Basin Ridge and Marsh Creation - Bayou Terrebonne Increment	MARSH CREATION/RIDGE RESTORATION	+/-	+/-	o	+/-	+/-	o	+	o	o	+	(C +), (T, HL o)
NRDA (TE-146): Pointe-aux-Chenes WMA Enhancement	STRUCTURE	+/-	+/-	o	+/-	o	+	-	o	+/-	+	(C +), (T +/-), (HL o)
NRDA (TE-170): Bayou Dularge Ridge and Marsh Creation	MARSH CREATION/RIDGE RESTORATION	+/-	+/-	o	+/-	+/-	+	+	o	o	+	(C +), (T o)

Program	Project Type	Wetlands and Other Surface Waters	Wildlife	Threatened and Endangered Species	Fisheries, Aquatic Resources, and Water Quality	Essential Fish Habitat	Recreational Resources	Aesthetic Resources	Air Quality	Noise	Socioeconomics	Environmental Justice*
RESTORE (TE-113): Houma Navigation Canal Lock Complex	STRUCTURE	+/-	+/-	o	-	+/-	+/-	-	o	+/-	+/-	(C +), (T +/-), (WK, HL o)
SECTION 204/1135: Houma Navigation Canal, Wine Island Barrier Island Restoration	HABITAT RESTORATION	+/-	+/-	+/-	+/-	+/-	o	+	o	o	+	(C +), (T, HL o)