Southwest Louisiana Regional Update

CPRA Board Meeting

Jerry Carroll
CPRA Lafayette Regional Operations Manager
September 30, 2020
CURRENT PROJECTS

- CS-28/CS-81 Sabine Refuge Marsh Creation
- CS-80 Rabbit Island Restoration
- CS-66 Cameron Meadows MC and Terracing
- CS-79 Oyster Lake Marsh Creation
- CS-59 Oyster Bayou Marsh Creation
- CS-33 Cameron Parish Shoreline Restoration
- CS-65 Calo Ship Channel Salinity Control
- CS-49 Cameron-Creole FW Intro
- CS-54 Cameron-Creole Watershed Grand Bayou MC
- CS-78 No Name Bayou Marsh Creation
- ME-18 Rockefeller Refuge Shoreline Stabilization
- ME-36 Rockefeller Refuge Piers and Signage
- ME-32 S. Grand Chenier MC – Baker Tract
- ME-20 S. Grand Chenier Marsh Creation
- ME-35 Rockefeller Shoreline Protection Ext.
- ME-37 Rockefeller Shoreline Protection

- Completed Project
- Project in Construction
- Funded for Construction; awaiting bidding phase
- Project in design
Marsh Creation Area No. 1 (25 ac)

Marsh Creation Area No. 2 (109 ac)

Marsh Creation Area No. 3 (281 ac)

Project Features:
- 415 acres Marsh Creation
- Borrow source from Vermilion Bay
- Increase freshwater and sediment inflow into interior wetlands by installing a series of culverts (21 - 42” CMP culverts @ 9 locations)

Federal Sponsor: NOAA/NMFS

Construction Cost: $13.44 million (CWPPRA)
- 1.2M cy dredged
- Final acceptance November 2019
Coles Bayou Marsh Restoration Project (TV-63)

Post Hurricane Laura 9/9/2020
Grand Bayou Marsh Creation Project (CS-54)
Project Features:
- Original Project Area 617 acres
- 219 acres (Miami Corp);
- 398 acres (Cameron Prairie)
- Add’n 60 acres (LDNR Mitigation Cell)
- Add’n ~378 acre nourishment area
- 4M cy dredged
- 46k lf earthen containment dikes

Construction Cost: $ 12.4M (CWPPRA)
- Final Acceptance: November 2019
- Federal Sponsor: USFWS
Project Features: Construct 3.85 miles of graded riprap breakwaters with lightweight aggregate core, approximately 150’ offshore on -3.5’ contour.

Construction Cost: $28.6 million (CWPPRA, LDWF)
- Mobilized late spring 2018
- 267k Tons armor stone
- 43k Tons bedding stone
- 182k square yds geotextile composite
- 63k cy lightweight aggregate
- Final acceptance May 2020

Federal Sponsor: NOAA/NMFS
Rockefeller Refuge Shoreline Stabilization (ME-18)

Sediment Deposition – Landward Side Of Breakwater
Construction Details

$5M State Surplus + $4.3M Cameron Parish (Gustav/Ike CDBG)

- Construct 4,100 LF of graded riprap breakwaters with lightweight aggregate core along Rockefeller Refuge shoreline immediately west of CWPPRA project ME-0018
- Construction Contract $6.75M – administered by Cameron Parish
- Contractor currently performing lightweight aggregate bagging operations
- NTP issued April 2020; 250 calendar days – Dec. 2020 completion
Rockefeller Shoreline Protection - Restore (ME-35)

- **Project Features:**
  - Extension of graded riprap breakwaters with lightweight aggregate core
  - ~6,000 lf
  - $6.67M RESTORE State Matching and $2M Cameron Parish RESTORE funds
  - Administered by Cameron Parish
Rabbit Island Restoration Project (CS-80)
Restoring Bird Habitat for Successful Nesting

Brown Pelican
Rabbit Island Restoration Project

LEGEND
FILL AREA
BORROW AREA
DENOTES WATER DEPTHS REFERENCED TO MLW

EQUIPMENT ACCESS CORRIDOR

<table>
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<th>LONGITUDE</th>
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Rabbit Island

Access Corridor

Turbidity Curtains

Borrow Area

Coastal Protection and Restoration Authority of Louisiana
Project Vision: Restore 88 acres of eroded marsh and nourish existing marsh to benefit bird habitat (Brown Pelican)

Project Stakeholders: CPRA and LDWF

Project Features:
- 8,225 lf of Earthen Containment Dike
- 472,000 cy of Fill Material
- Calcasieu River Borrow Source (Sand/Clay mix)
- Turbidity Curtains along Access Corridor (Protect Oyster Resource)

Project Status:
- Construction Contract: $7.27 Million
- Contractor installing turbidity curtain installation and performing pre-construction surveys
- Anticipate dredging Nov/Dec 2020; early spring 2021 completion
Cameron Meadows Marsh Creation (CS-66)

Project Features:
- 308 acres of marsh creation
- ~15,000 linear feet of terraces (27 terraces; ~175 acres)
- Borrow area – Gulf borrow 5 miles south of the project area
- 2.36M cy to be dredged

Construction Contract: $28.56 Million (CWPPRA)
Federal Sponsor: NOAA/NMFS

Project Status:
- NTP issued August 17, 2020; 400 calendar days (Sept. 2021)
- No project schedule yet; no damages observed from Hurricane Laura
- Anticipate Hwy 82 crossing to be installed late 2020; containment dike and terrace construction early 2021; dredging spring 2021
Cameron Creole Freshwater Introduction (CS-49)
Project Features:

- Placement of sheet pile structure in Monsanto canal (8 - 5' square openings)
- 8,100 feet of GIWW rock shoreline protection
- 120,000 linear feet of terracing

Project Status:

- CWPPRA project – Designed and administered by NRCS
- Construction contract: $ 9.7 Million
- Rock along GIWW complete
- West Terrace Field complete; East Terrace Field 50% complete
- Completion spring 2021
Cameron Creole Freshwater Introduction (CS-49)

Post Hurricane Laura 9/10/2020
Cameron Creole Freshwater Introduction (CS-49)

Post Hurricane Laura 9/10/2020
Bayou Chene Floodgate (AT-17)
St. Mary Levee District

Project Phases in Construction:

- **1A** – clearing and grubbing along Tabor Canal – complete
- **1B** – dredging for installation of flood control structure; material used for Tabor Canal Levee and south structure tie into Tabor Canal Levee – completion Nov. 2020
- **2** – 403’ clear channel opening; steel braced floodwall, floodgate receiving structure; cutoff walls; riprap scour protection, fendering systems – completion Aug. 2021
- **3** – steel barge gate – completion Aug. 2021
- **4A** – Avoca road levee and north levee structure tie in; Recently awarded - 90 calendar days contract time
- > $ 55 Million construction under contract
- GOMESA Funding
Bayou Chene Floodgate (AT-17)
NRDA – Recreational Use Project

- **Project Stakeholders:** CPRA and DCRT-Office of State Parks
- **Project Features:**
  - Beach Reclamation
  - Repair Rock Jetty along Quintana Canal
  - 4000 ft Boardwalk through the Marsh Interior
  - 31 space Campground with Mobile Bathhouse (Submitted for Approval)
  - Entrance Road Repair and Resurfacing
- **Project Status:**
  - Beach Reclamation – Purchase & provide sand end 2020; construction by State Parks
  - Rock Jetty & Boardwalk – Bid Nov. 2020
  - Road Repair & Campground – Bid Feb/March 2021
  - Construction Estimate - $3.5M
**Project Features:**
- CWPPRA; USFWS federal sponsor – NRCS design
- Benefit 430 acres of marsh by building two 200+ acres cells with sediment from the Gulf of Mexico

**Construction Cost:** $17 million (estimated)

**Project Status:**
- Project was bid twice (2017 & 2018); bids rejected due to being over budget
- Project redesigned – preparing to bid early 2021
### CWPPRA Projects in Engineering & Design Phase

<table>
<thead>
<tr>
<th>Project ID</th>
<th>Project Name</th>
<th>Project Lead</th>
<th>Parish</th>
<th>Federal Sponsor</th>
<th>30% Meeting</th>
<th>95% Meeting</th>
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<td>No Name Bayou Marsh Creation</td>
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<td>South Grand Chenier Marsh Creation - Baker Tract</td>
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### Other Projects in E&D

Vermilion Parish led projects

- TV-77 North Vermilion Bay Shoreline Protection ($7.9M State funds)
- TV-82 Freshwater Bayou Shoreline Protection ($3.6M State funds)

Cameron Parish led project

- ME-35 Rockefeller Refuge Shoreline Protection Ext. ($6.67M State RESTORE & $2M Parish RESTORE)
Regionwide SW LA Projects

CS-0065 Calcasieu River Salinity Control Measures (RESTORE, $263.8M, Calcasieu and Cameron Parishes)

- Land loss in the Calcasieu-Sabine Basin is driven by two factors
  - Salt water intrusion
  - Marsh flood stress from sea level rise and other drainage

- Current 30% Design includes multiple features along or near the Calcasieu Ship Channel to better confine highly-saline water to the Calcasieu Ship Channel to reduce land loss

- Currently assessing project feature optimization including additional modeling to address marsh inundation
Regionwide SW LA Projects (cont’d)

TV-0054 South Central Coastal Plan (WRDA, $3M, Ibe, StMt, StMa)- study and design of multiple hurricane protection features for coastal communities in St. Martin, Iberia, and St. Mary Parishes

LA-0020 Southwest Coastal Louisiana Feasibility Study (WRDA, $3.4B, Cal, Cam, Ver)- integrated suite of ecosystem restoration and protection measures to address coastal issues of SW LA including shoreline stabilization, marsh creation, salinity control, hurricane protection, and chenier restoration
# Project Timelines - Regionwide (E&D)

<table>
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<tr>
<th>Project ID</th>
<th>Funded for CON</th>
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<td>TV-0054 South Central Coastal</td>
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COMPLETED PROJECTS (since 2009)

- TV-11 Freshwater Bayou Bank Stabilization
- TV-63 Coles Bayou Marsh Creation
- ME-25 Marsh Creation Near Freshwater Bayou
- TV-52 Franklin Canal Floodgate
- TV-55 Morgan City/St. Mary Flood Protection
- TV-21 East Marsh Island Marsh Creation