

Calcasieu-Sabine Large Scale Marsh and Hydrologic Restoration

PROJECT OVERVIEW AND PROGRAM UPDATE

Project Overview and Background

Project Scope

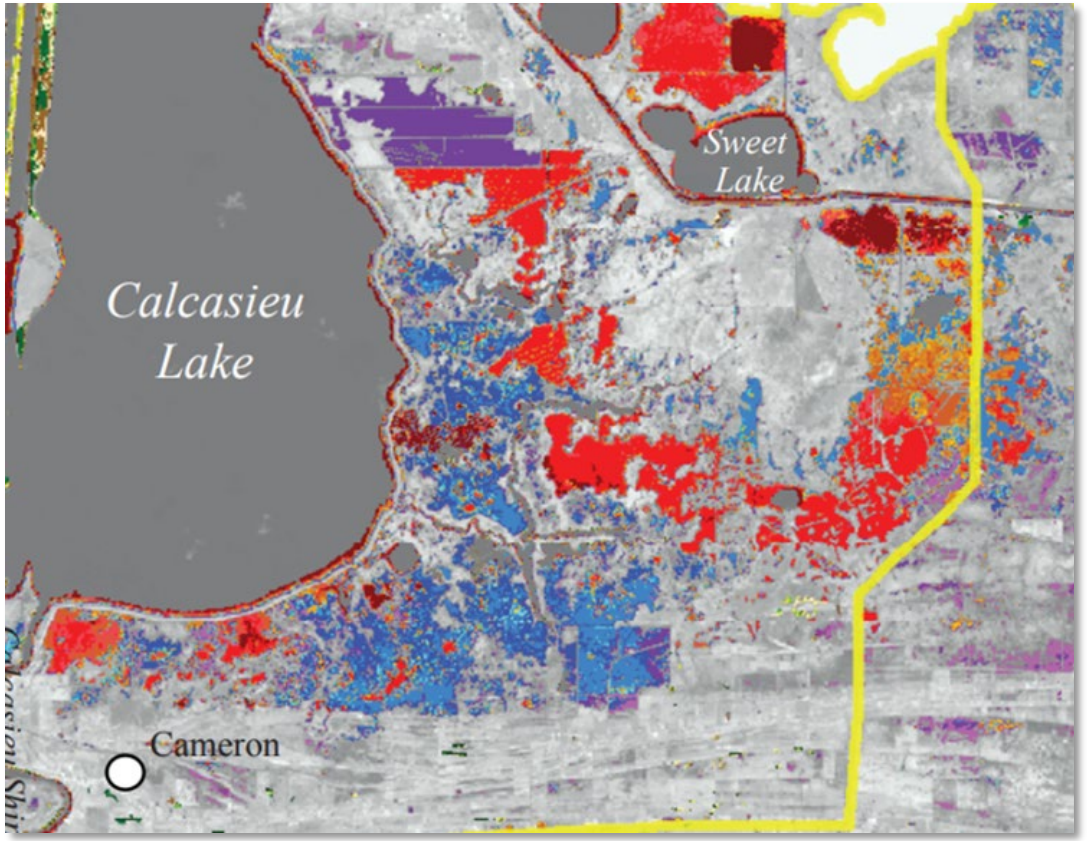
PROJECT GOAL: Reduce the rate of land loss in the Calcasieu Sabine Basin

PROJECT OBJECTIVES

- Reduce marsh stress from flood inundation through:
  - Improved drainage
  - Dredged sediment input
- Maintain marsh salinity levels achieved through existing CCW management practices

TWO MAIN PROJECT COMPONENTS

- Drainage structures with backflow prevention to improve marsh drainage
- Large-scale marsh creation & nourishment to increase elevation capital (~2,000 acres)

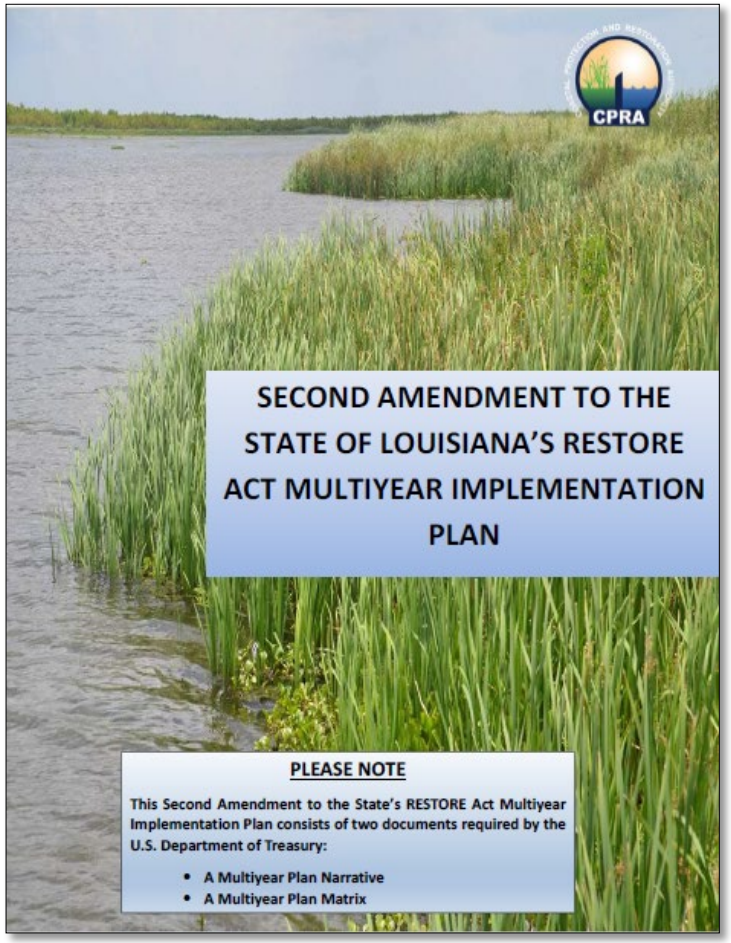


Source: Couvillion, B.R., Beck, Holly, Schoolmaster, Donald, and Fischer, Michelle, 2017, Land area change in coastal Louisiana 1932 to 2016: U.S. Geological Survey Scientific Investigations Map 3381, 16 p. pamphlet, https://doi.org/10.3133/sim3381.

Calcasieu-Sabine Large-Scale Marsh and Hydrologic Restoration Project

Funding Source: RESTORE Act Direct Component (Bucket 1)

- This project replaces the discontinued Calcasieu Ship Channel Salinity Control Measures Project
- Full $260.97M Bucket 1 allocation for Louisiana dedicated to this project
  - Engineering & Design
  - Permitting
  - Construction
  - Operations & Maintenance of Drainage Structures
  - Monitoring and Adaptive Management



Project Features

Lake Rim Drainage

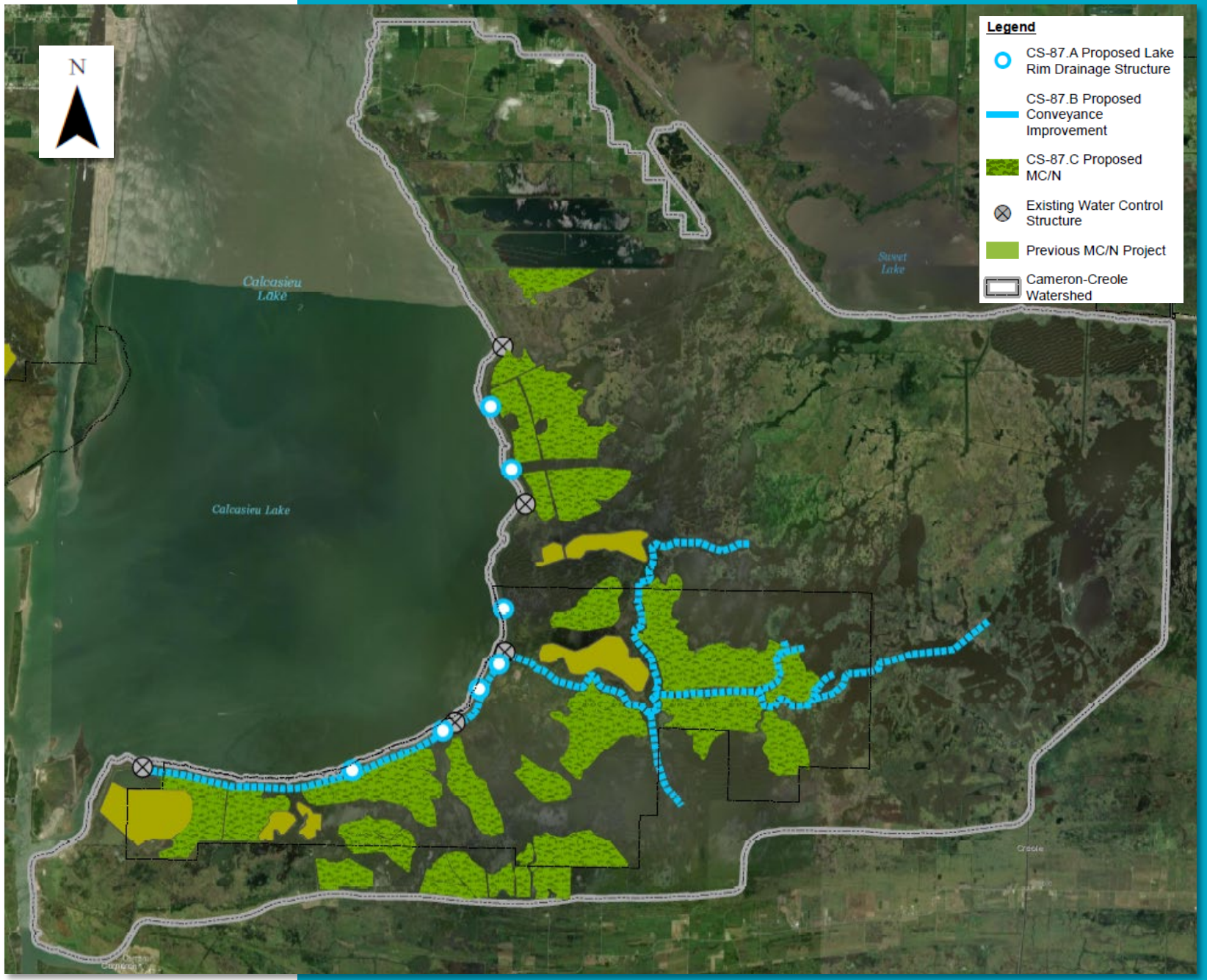
- Seven (7) proposed gravity drainage structures with backflow prevention

Conveyance

- Up to 18 miles of channel improvements
  - Improve drainage from back of the marsh to the Lake Rim
  - Focused on dredging of historic bayous

Marsh Creation

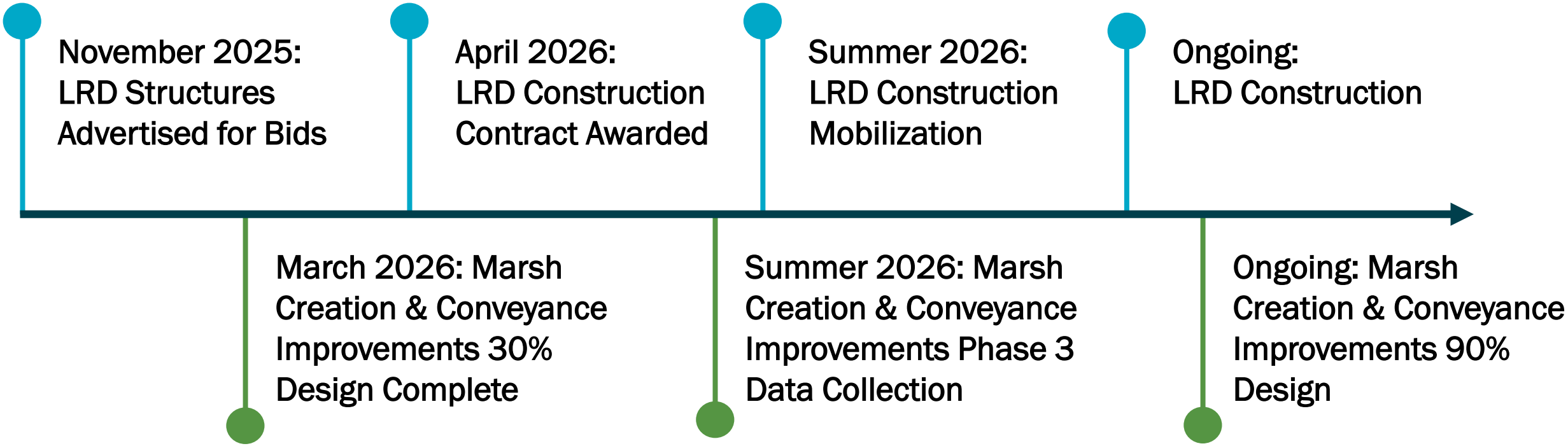
- Over 1,500 of 7,000 proposed acres to be built through CS-87
  - Using dredged material from channel improvements



Program Updates

Major Accomplishments

Progress & Milestones Since Last Update



Lake-Rim Drainage Structures

Construction Underway

COMPLETED ACTIVITIES

- ✓ Mobilization and laydown yard development
- ✓ Surveys, testing and material procurement
- ✓ Dredge mobilization and beneficial use area ECD construction
- ✓ Weir removal

ONGOING/UPCOMING ACTIVITIES

- Grand Bayou Central Structure levee excavation and coffer dam construction
- Grand Bayou South levee excavation



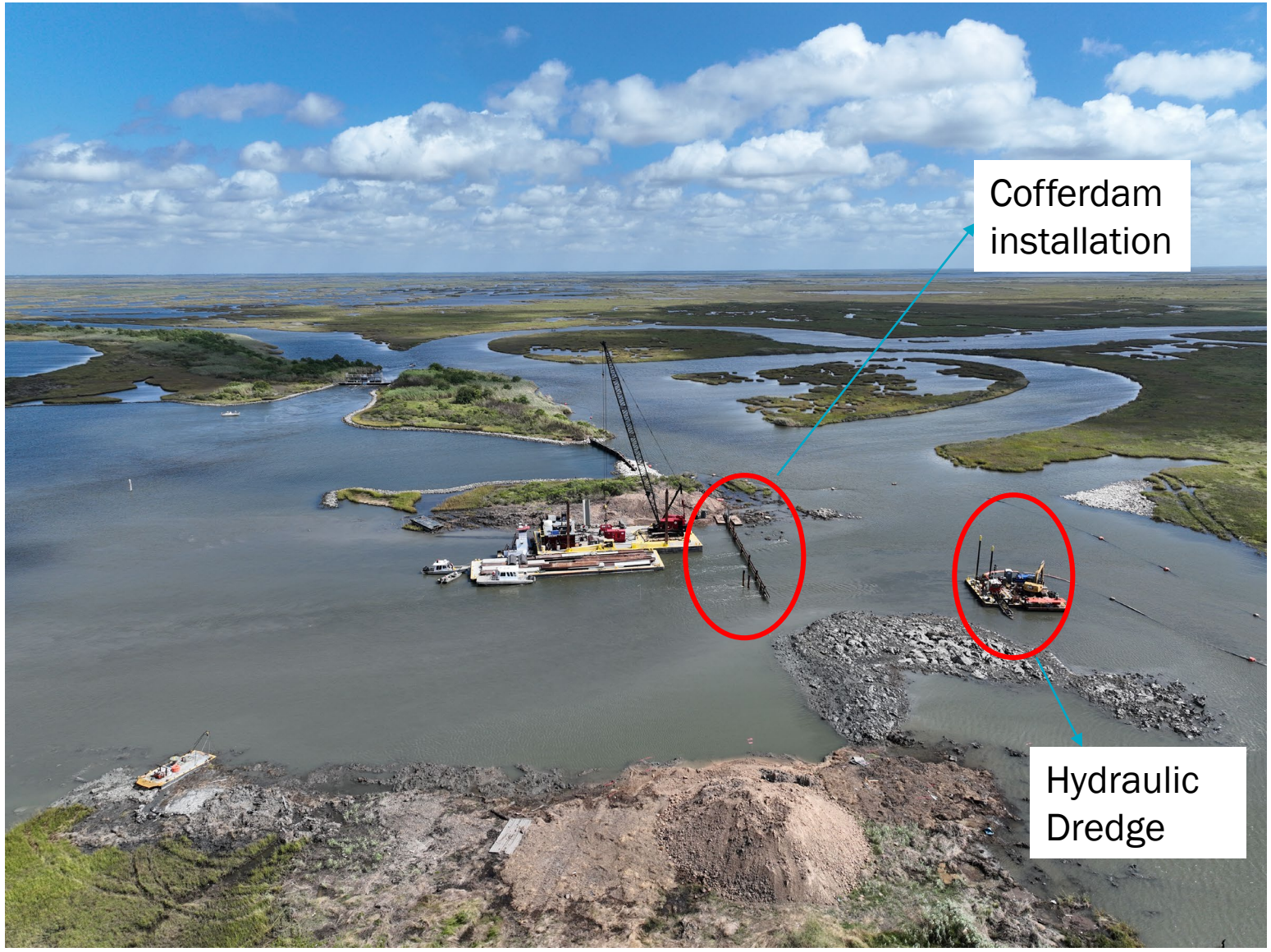
Drone view of the laydown yard facing WSW

Lake-Rim Drainage Structures



View of shipment of inline check valves at laydown yard, 10/1/2026

Lake-Rim Drainage Structures



View of Grand Bayou Central structure location looking North along the levee, 10/12/2026

Lake-Rim Drainage Structures



View of Grand Bayou Central looking South along the levee, 10/12/2026

Lake-Rim Drainage Structures



View of Grand Bayou South location looking South along the levee, 10/12/2026

Lake-Rim Drainage Structures



View of Grand Bayou South location looking North along the levee, 10/12/2026

Lake-Rim Drainage Structures



View of the Beneficial Use Placement Area facing NNE, 10/1/2026

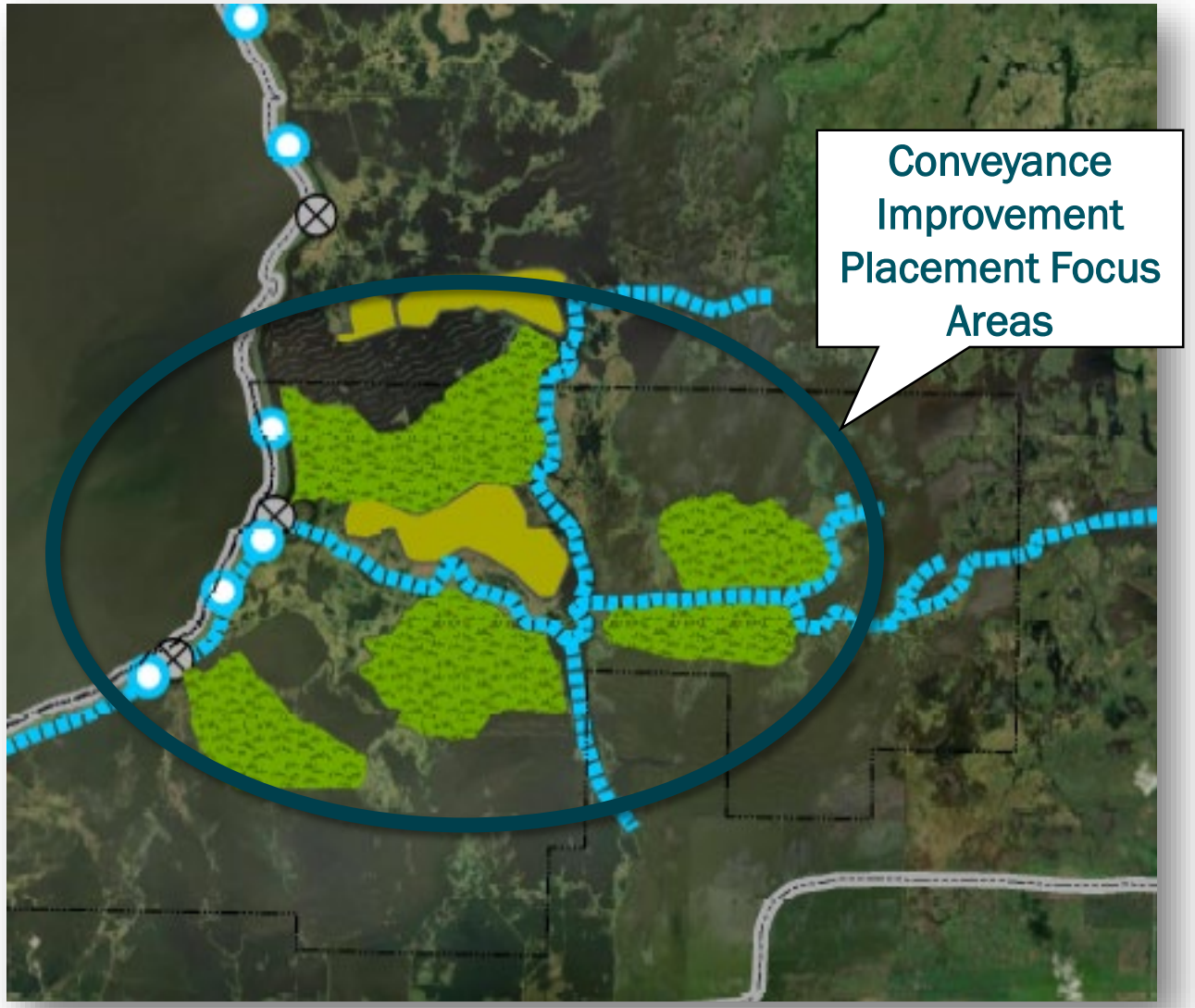
Marsh Creation & Conveyance Improvements

Data Collection & Detailed Design

Excavation of over 18 miles of channels within the CCW to increase conveyance capacity to the lake rim drainage structures and beneficial re-use of material for large-scale marsh creation and nourishment.

COMPLETED ACTIVITIES

- ✓ 30% Design
- ✓ Phase 3 Data Collection
  - Survey
  - Geotechnical
- ✓ Permitting/Regulatory



Marsh Creation & Conveyance Improvements

Ongoing & Upcoming Activities

KEY MILESTONES

RESTORE Grant Amendment

- Grant Amendment application for construction funds being prepared and targeting submittal to RESTORE for fall 2026

Ongoing Coordination

- Ongoing Coordination with IRT to help extend grant dollars and expand marsh acreage

95% Design

- Targeting Completion Spring of 2027
- Coordination with stakeholders and regulatory agencies
- Refinement of access routes and pipeline corridors
- Marsh settlement evaluation scenarios
- Finalizing ECD templates and ITD design
- Developing construction sequencing and schedule

Next Steps

Upcoming Milestones

Lake-Rim Drainage – Construction

- Grand Bayou Central Structure Completion – Target Date: June 2027
- Grand Bayou South Structure Completion – Target Date: October 2027
- Lambert Structure Completion – Target Date: February 2028
- All Construction Completion - Target Date: May 2029

Conveyance Improvements & MC/N

- RESTORE Grant Amendment application submittal for construction funds – Target Date: Fall 2026
- 95% Design Completion – Target Date: Spring 2027