

# TE-72 Lost Lake Marsh Creation and Hydrologic Restoration CWPPRA Project

## FWS Outreach Report

**Kevin Roy, Project Manager**

The TE-72 project began construction in January 2017 to construct 465 acres of marsh, 30,000 linear feet of terraces, and five water control structures. Due to a very favorable construction bid, over \$8M in construction funds were available to expand the project. So in May 2017, the Task Force approved a 245-acre expansion of the marsh creation area east of Lake Pagie. The cost of the expansion was approximately \$7.2M. Additional funding from the Louisiana Department of Natural Resources Coastal Management Division and the Louisiana Oil Spill Coordinator's Office allowed further expansion. In addition, dredged material quantities were over-estimated which also allowed for further project expansion.

The alignment of the marsh creation cells along Bayou Decade is shown in Figure 1. This pre-construction (September 2017) photo was taken after containment dikes were completed and before dredging began. Construction was completed in November 2018. The completed marsh creation cells are shown in Figure 2. Even in this winter photo, new vegetative growth is evident within the cells.

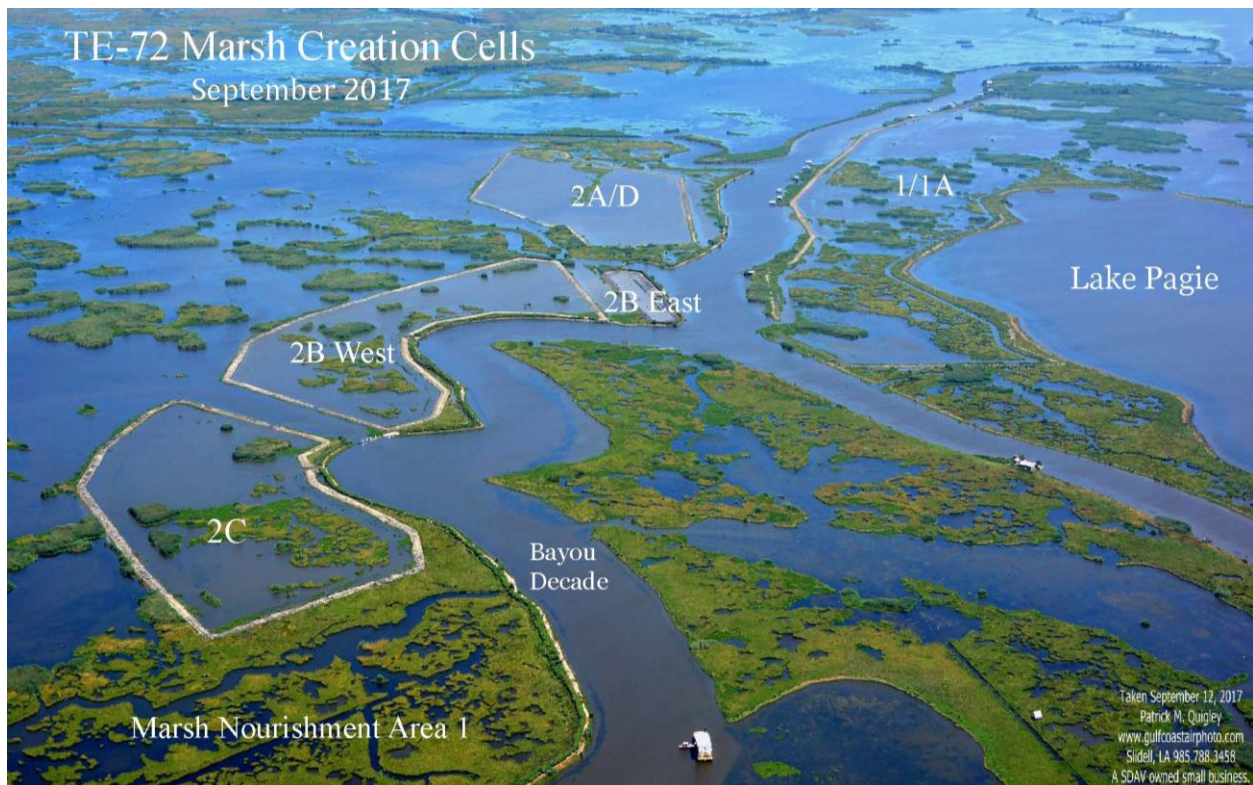


Figure 1.

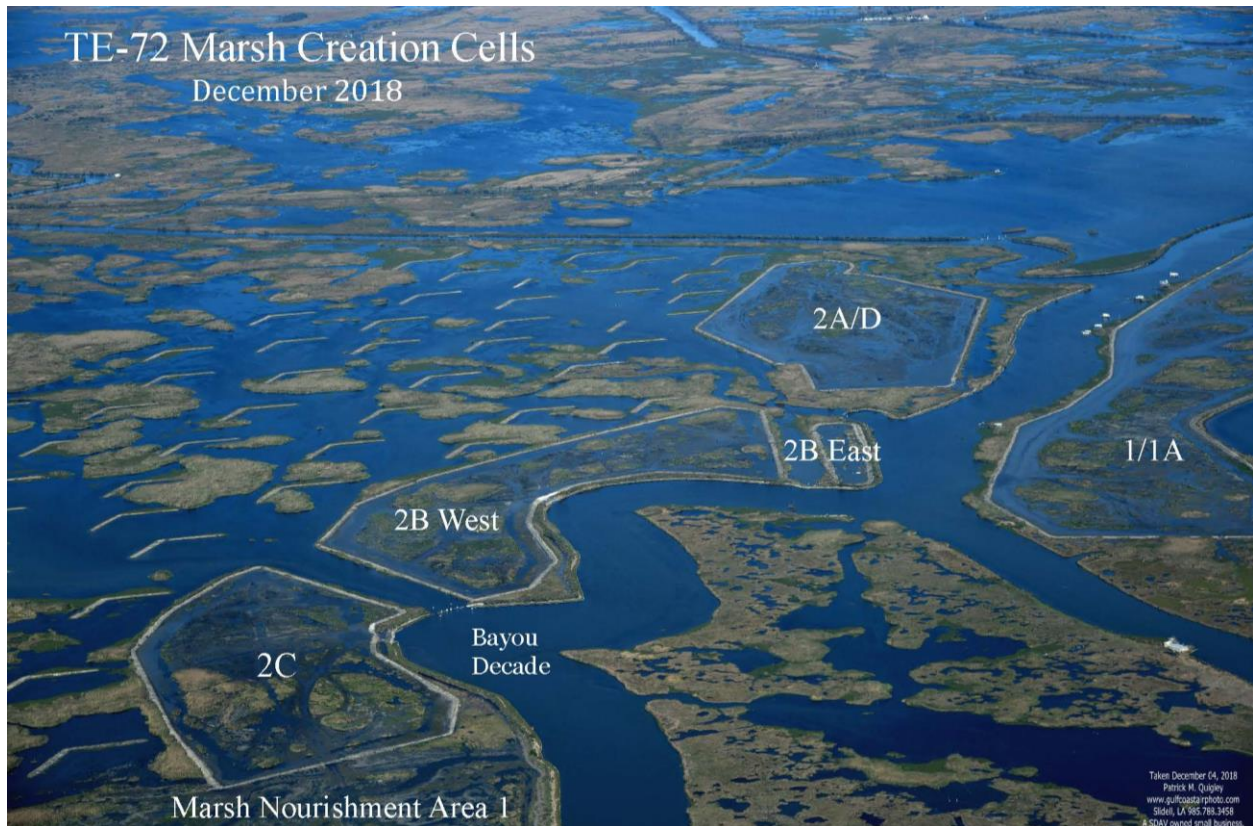


Figure 2.

The hydrologic restoration component of the project included installation of five water control structures to replace four fixed-crest weirs and a plug. One of the newly installed water control structures is shown in Figure 3. This structure is located near Carencro Bayou and allows greater amounts of fresh water, sediments, and nutrients to enter the marsh than allowed by the previous fixed-crest weir.



Figure 3.

Approximately 30,000 linear feet of terraces were constructed north of Bayou Decade and west of Voss Canal (Figure 4). The terraces provide additional habitat in an area of deteriorated marsh and also afford some protection from waves to the marsh creation cells.



Figure 4.

With the project expansion and additional funding from the State of Louisiana, the total acreage of marsh created and nourished grew from 465 acres to over 1,100 acres. The total project cost was \$28.9M with a total cost to the CWPPRA program of \$26.7M.

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