

# Four Mile Canal Terracing and Sediment Trapping (TV-18) **Coastal Wetlands Planning, Protection and Restoration Act** 2010 Land-Water Classification







#### Project Background :

The Four Mile Canal Terracing and Sediment Trapping (TV-18) project, is located in Vermilion Parish Louisiana. It is directly west of Four Mile Canal, and is 4 miles south of Intracoastal City. In August of 1941, Congress enacted The Flood Control Act, which created improvements for the Vermilion River. This led to materials being excavated and deposited along the shore creating spoil banks down the canal. These spoil banks prevent nourishing flood waters from replenishing the adjacent marsh. In this area, the major cause of marsh deterioration is shoreline erosion. Both wave and wake erosion continually cause decline in the shoreline areas. Storms and wave energy caused by coastal winds also play a significant role in the deterioration of this area. The date of construction for this project was May 21, 2004.

#### Strategies :

The construction 40,300 linear feet of terraces at an elevation of +5.0 ft. (+1.52m) NAVD88 in Little White Lake and Vermilion Bay, will help protect existing marsh from being eroded at such a high rate. To increase the stability of the terraces, 70 acres of Spartina alterniflora will be planted along the slopes of the terraces. Additionally, as freshwater and suspended sediments enter from Four Mile Canal and the Vermilion River, new marsh will be created and trapped between the terraces.

### Goals :

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and

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The goals of this project are to reduce shoreline erosion rate by 50%, achieve 9% net increase in marsh habitat, increase submerged aquatic vegetation from 0% to 25%, and increase fisheries utilization of the project area, all within 20 years.

Water

## Federal Sponsor: National Oceanic and Atmospheric Administration National Marine Fisheries Service

Louisiana Coastal Protection and Restoration Authority Lafayette Field Office

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