



# Bayou Lamoque Freshwater Diversion (BS-13)

Transferred

## Project Status

**Approved Date:** 2006      **Project Area:** 9,435 acres

**Approved Funds:** \$0 M      **Total Est. Cost:** \$0 M

**Net Benefit After 20 Years:** 620 acres

**Status:** Transferred

**Project Type:** Freshwater Diversion

**PPL #:** 15

### Location

The project area is located in the Breton Sound Basin along the east bank of the Mississippi River across from Sixtymile Point approximately 3.4 miles north of Empire in Plaquemines Parish, Louisiana.

### Problems

This system experiences land loss associated with subsidence, shoreline erosion from wave action, oil and gas activities, and disconnection from the river. Two large freshwater diversion structures are located here. One was built in 1955 and is capable of diverting 4,000 cubic feet per second (cfs) of river water. The other was built in 1978 and is capable of diverting 8,000 cfs. These structures were operated periodically by the Louisiana Department of Wildlife and Fisheries until 1994. Neither structure is officially used any longer because of repair and operation issues and the lack of an interagency management plan. The structures are being operated unofficially to some extent, but it is not known in what capacity or for how long. Wetland loss rates are low, probably because of beneficial effects of the occasional opening of the Bayou Lamoque structures, influence from the mouth of the Mississippi River, and possibly, the stabilizing effect of being on the flanks of the Mississippi River natural levee.



Freshwater diversion structures on Bayou Lamoque, which are in need of repair, will allow water from the Mississippi River to flow through the area's wetlands again when its gates and their mechanical operating systems are removed.

## Restoration Strategy

This project is designed to achieve several goals within 20 years by continuously diverting up to 13,000 cfs (average 2,500 cfs) of water from the Mississippi River water into Bayou Lamoque. By strategically gapping spoil banks along Bayou Lamoque, the distribution of diverted water in the benefitted area will be highly improved. Project goals include creating approximately 620 acres of new marsh, increasing the percent cover of aquatic vegetation in interior marsh ponds and channels, increasing the area of shallow open-water habitat, and decreasing the average salinity level in the project area.

To achieve the project's goals, design plans call for making the Bayou Lamoque freshwater diversion structures more efficient by removing the gates and their mechanical operating systems to allow free-flowing diversion at the maximum capacity of both structures. Plans also call for constructing gaps in the natural levee ridges or spoil banks on Bayou Lamoque at strategic locations to facilitate distribution of diverted water and to promote the accretion of new wetlands through the deposition of diverted river sediments. This project will benefit intermediate marsh, brackish marsh, and open-water habitats.

## Progress to Date

The Louisiana Coastal Wetlands Conservation and Restoration Task Force approved funding for engineering and design at their February 2006 meeting. This project has been transferred.

This project is on Priority Project List 15.

*For more information, please contact:*



**Federal Sponsor:**  
U.S. Army Corps of Engineers  
New Orleans, LA  
(504) 862-1597






U.S. Environmental Protection Agency  
Dallas, TX  
(214) 665-7255



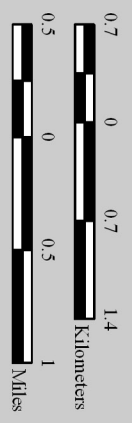
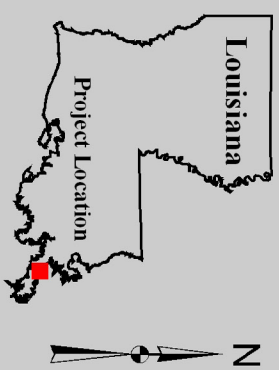
**Local Sponsor:**  
Coastal Protection and Restoration Authority  
Baton Rouge, LA  
(225) 342-4736



# Bayou Lamoque Freshwater Diversion (BS-13)

	Gate Removal
	Spoil Bank Gapping
	Project Boundary

\*denotes proposed features



Map Produced By:  
U.S. Department of the Interior  
U.S. Geological Survey  
National Wetlands Research Center  
Coastal Restoration Field Station

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