

# 2022 Teche-Vermilion Regional Flood Management Plan V1.4

## Objective

Minimize the risk of a major flood event in the Teche-Vermilion Watershed.

## Method

The method employed consists of lowering stages of major tributaries in advance in anticipation of a forecasted major rain event utilizing existing control structures, systems, and resources. This process establishes retention for a portion of the expected rainfall. Additionally, efforts will be executed to position gates and related water control systems to facilitate the efficient and safe movement of flood waters to the watershed flood plains and the Gulf of Mexico.

## Entities Involved in Operation of Plan

US Army Corps of Engineers(USACE) (Plan Administrator and Plan Operations Coordinator)

Teche -Vermilion Freshwater District(TVFD)

St. Martin Parish Government

Red River, Atchafalaya and Bayou Boeuf Levee District (RRABB)

Team Citizen Volunteers

## Systems, Control Structures, and Resources and Controlling Entity addressed by Plan

US Army Corps of Engineers Control Structures

Bayou Courtableau Water Control Structure

**Provides drainage of Bayou Courtableau into the West Atchafalaya Spillway just south of US190 East of Port Barre**



Darbonne control structure

**Provides drainage of Bayou Courtableau into the West Atchafalaya Spillway just north of US190 East of Port Barre**



## Teche Vermilion Freshwater District Control Structures

### Pumping Station

**This pumping station is located north of Krotz Springs pumps fresh water from the Atchafalaya River for the Bayou Teche and Vermilion River to improve water quality and prevent salt water intrusion**



### Ruth Canal Diversion Structure

**Gate on Ruth Canal just West of Bayou Teche South of Breaux Bridge controls water flow from Bayou Teche to the Vermilion River**



Loreauville Canal control structure

**Control Structure on Loreauville Canal East of Bayou Teche- controls water flow into Lake Fausse Pointe from Bayou Teche**



Feeder canal/borrow pit control structure

**Gate on Borrow Pit Canal near West Atchafalaya Spillway West Levee provides drainage from Bayou Courtableau into the West Atchafalaya Spillway West Levee Borrow Pit**





St. Martin Parish Government

Henderson Lake Southern Control Structure

**This structure manages the level in Henderson Lake and is located south of the Butte La Rose pontoon bridge**



Red River, Atchafalaya and Bayou Boeuf Levee District

Bayou Rapides-Bayou Boeuf Gates

**The first gate below is located between Bayou Rapides and Bayou Boeuf just west of downtown Alexandria LA .**

**The second gate below is located between Bayou Rapides and the Red River just north and west of downtown Alexandria LA.**

**Both gates are operated in sequence to provide irrigation waters to farm operations along Bayou Boeuf.**



## Plan Timetable Events

### When a Rain Event is Forecast that could result in a Flood Event

As necessary as soon as a Major Regional Rain Forecast (8" of greater) is made for the Teche-Vermilion Watershed

A conference call for all the Operational Entities will be scheduled by the Plan Administrator and made ASAP no later than 72 hours prior to the forecast beginning of the rain event. The Operation Plan will be activated immediately at the commencement of this meeting.

Follow up conference calls for all the Operational Entities will be held daily by the Plan Operations Coordinator until the threat of the major flood event has passed.

### 72 Hours(or sooner) Prior to a Forecasted Major Regional Rain Commences (8" of greater)

In order to lower stages in the Bayou Courtableau and Teche-Vermilion watersheds quickly the following operations of control systems and control structures and will be executed ASAP.

1. Teche-Vermilion Freshwater District Pumping Station ceases any pumping operations
2. Red River, Atchafalaya and Bayou Boeuf Levee District will close Bayou Rapides and Bayou Boeuf gates that provide irrigation water to the lower part of the watershed.
3. The USACE Bayou Courtableau Water Control Structure is opened when basin side levels are lower than bayou side levels and remain open until backflow occurs or targeted drawdown levels are achieved (approximately 15.63 ft which is the same annual operating pool stage level during the month of December.
4. The TVFD Feeder canal/borrow pit control structure is opened(Bayou Amy Gate)
5. The USACE Darbonne control structure is opened when basin side levels are lower than bayou side levels and remain open until backflow occurs
6. The Ruth Canal Diversion Structure is closed when the gauge on the Vermilion River at Surrey Street is greater than 7 ft
7. The Henderson Lake Southern Control Structure will be opened and will remain open until the threat has passed
8. Loreauville Canal control structure is opened when the gauge at the upstream side(Bayou Teche side) of the structure is greater than 4 ft
9. The Plan Operations Coordinator will record a time and date log of when each operations step is executed. Additionally, recording of hourly level data will be made on critical gauge data to help understand how this Operation Plan impacts levels in the watershed.

### After the Rain Event or Flood Event has passed

The Plan Operations Coordinator will determine when the rain or flood event risk has passed and notify all of the entities to return all gates and control systems and structures to normal operations as soon as feasible.

### Plan Contact List

<b>Entity</b>	<b>Name</b>	<b>Position</b>
<b>Phone</b>	<b>eMail</b>	

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