



## **Coastal Protection and Restoration Authority of Louisiana**

### **Office of Coastal Protection and Restoration**

## **2013 Annual Inspection Report**

### **Mississippi Sediment Delivery System – Bayou Dupont**

State Project Number BA-39  
Priority Project List 12

July, 2013  
Jefferson Parish &  
Plaquemines Parish

Prepared by:

Peter Hopkins, P.E.  
CPRA/ Office of Coastal Protection and Restoration  
New Orleans Field Office  
CERM, Suite 309  
2045 Lakeshore Dr.  
New Orleans, La 70122

## **Table of Contents**

I. Introduction.....	1
II. Project Description and History.....	1
III. Inspection Purpose and Procedures.....	1
IV. Inspection Results .....	2
V. Conclusions.....	2
VI. Recommendations.....	2
Immediate Repairs .....	2
Programmed Maintenance .....	2

## **Appendices**

Appendix A	Project Features Map
Appendix B	Photographs
Appendix C	Three Year Budget Projections
Appendix D	Field Inspection Form

## **I. Introduction**

The Mississippi Sediment Delivery System - Bayou Dupont Project (BA-39), including Increment 2, created a total of 568 acres of marsh utilizing dredged material from the Mississippi River. This project utilized CWPPRA, State, and Stimulus Grant funds. The project is located adjacent to Bayou Dupont and southeast of Cheniere Traverse Bayou in the vicinity of Ironton in Plaquemines Parish and Lafitte in Jefferson Parish, Louisiana. The general area lies west of Louisiana Highway 23 and just north of the Myrtle Grove Marina within the Barataria Basin (Appendix A).

## **II. Project Description and History**

The Mississippi Sediment Delivery System - Bayou Dupont Project includes approximately 568 acres of marsh fill hydraulically dredged and transported 5 miles from the Mississippi River and 32,176 linear feet ( 6.1 miles) of containment dikes. A 95 linear foot, 48” diameter casing, was left in place as a crossing under the New Orleans & Gulf Coast Railroad along with a 194 linear foot, 48” diameter casing under Highway 23 for future use. The original CWPPRA project resulted in approximately 484 acres of marsh creation (Marsh Creation Areas 1 & 2). An additional 84 acres (Increment 2) was added to the project utilizing ARRA Stimulus Package Grant along with CWPPRA funds for a total of 568 acres.

Project construction began on February 4, 2009, and was completed on May 10, 2010. Project life is estimated to be 20 years. Annual project inspections are planned.

## **III. Inspection Purpose and Procedures**

The purpose of the annual inspection of the Mississippi Sediment Delivery System - Bayou Dupont Project (BA-39) is to evaluate the constructed project features to identify any deficiencies and prepare a report detailing the condition of project features and recommended corrective actions needed. The inspection procedure consists of a site visit by land or water as appropriate with a visual inspection of the project features. Should it be determined that corrective actions are needed, CPRA shall provide, in the report, a detailed cost estimate for engineering, design, supervision, inspection, and construction contingencies, and an assessment of the urgency of such repairs (O&M Plan). The annual inspection report also contains a summary of maintenance projects and an estimated projected budget for the upcoming three (3) years for operation, maintenance and rehabilitation. The three (3) year projected operation and maintenance budget is shown in Appendix C. An inspection of the Mississippi River Sediment Delivery System – Bayou Dupont Project (BA-39) was conducted on May 2, 2013, by Peter Hopkins, Danielle Richardi, and Erin Plitsch of CPRA. The originally scheduled inspection was rained out on April 3, 2013 and EPA was unable to reschedule. There was a light wind,

partly cloudy skies during the inspection. Photographs of that inspection are included in Appendix B of this report.

## **IV. Inspection Results**

### **Marsh Creation Areas**

The containment dikes and fill areas appeared to be holding up well. The fill areas have varying degrees of vegetation and no further vegetative plantings are planned at this time. The gaps appear to be allowing tidal exchange in their immediate areas. Although not considered to be project features the two (2) landowner maintained crossings between fill areas have been severely damaged by Hurricane Isaac and are no longer serviceable and approximately 1,000 feet of the relic canal on the south side of Area 1 has partially silted in.

### **Railroad and Highway Crossings**

The casings under the New Orleans & Gulf Coast Railroad and Highway 23 are underground and are not visible for inspection.

## **V. Conclusions**

Mississippi River Sediment Delivery System – Bayou Dupont Project (BA-39) is performing as intended. No additional vegetative plantings are planned at this time.

## **VI. Recommendations**

### **Immediate Repairs**

- No immediate repairs are necessary at this time.

### **Programmed Maintenance**

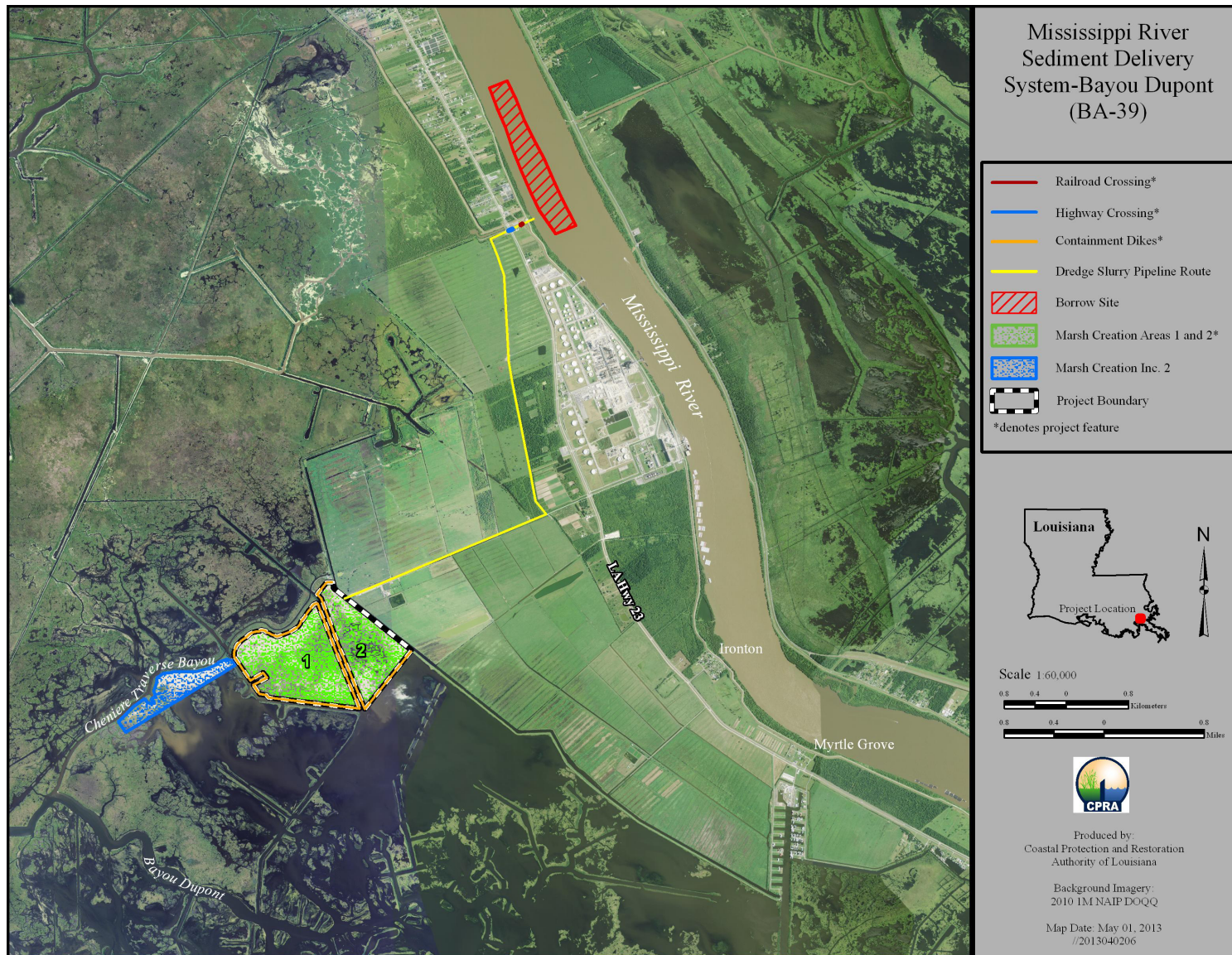
- Continue to monitor the condition of the fill area and crossings of the highway and railroad.



## **Appendix A**

### **Project Features Map**

2013 Annual Inspection Report  
Mississippi Sediment Delivery System – Bayou Dupont  
State Project No. BA-39



## **Appendix B**

### **Photographs**





**Photo #1 – South Containment Dike Marsh Creation Area 2  
at junction with canal looking northeast**



**Photo # 2 – Containment Dike Gap - Marsh Creation Area 2**





**Photo # 3 – Containment Dike Gap - Marsh Creation Area 1**





**Photo # 4 – Marsh Creation Area 2 Looking West from back levee**

## **Appendix C**

### **Three Year Budget Projection**



2013 Annual Inspection Report  
Mississippi Sediment Delivery System – Bayou Dupont  
State Project No. BA-39

## **Appendix D**

### **Field Inspection Form**

2013 Annual Inspection Report  
Mississippi Sediment Delivery System – Bayou Dupont  
State Project No. BA-39

[illegible]