

PROJECT COMPLETION REPORT

PROJECT NAME Barataria Bay Waterway West Shoreline Protection Project

CWPPRA/STATE PROJECT NO. BA-23

Report Date: November 6, 2007 **BY: LDNR/CED**

1. DNR Project Managers/Engineer/Construction Contractor :

DNR Project Manager	Barry Richard	Telephone	504-280-4059
DNR Construction Project Manager	<u>Barry Richard</u>	Telephone	504-280-4059
DNR Monitoring Manager	Melissa Kaintz	Telephone	504-280-4073
Federal Agency Project Manager	Brad Sticker (NRCS)	Telephone	318-473-7791
Wilco Marsh Buggies and Draglines, Inc.	John Ritter	Telephone	504-341-3409

2. Location and description of project.

The Barataria Bay Waterway West Bank Protection Project (BA-23) is located in Jefferson Parish, Louisiana approximately 4.5 mi (7.2 km) south of Lafitte on the west side of the Dupre Cut portion of the Barataria Bay Waterway (BBW). The project area is east of Bayou Rigolettes, north of the Lafitte Oil and Gas Field, and southwest of The Pen.

Principal project components include:

1. Foreshore Rock Dike
 - 9,900 linear feet (2,865 m) of rock shoreline protection along the west bank of the BBW.
2. Water Control Structure
 - Two (2) 48 inch diameter culverts.
 - Four (4) 5 ft long stop log bays capable of holding 10 stop logs each.

The purpose of the foreshore rock dike is to protect the existing adjacent marsh from excessive water exchange, wave action, and subsequent erosion. The structure also protects marsh which was constructed as a beneficial use project during the U.S. Army Corps of Engineers' (USACE) maintenance dredging of the BBW. This marsh was created by beneficially placing approximately 750,000 cubic yards of dredge material from the Waterway in shallow open water areas adjacent to the BBW. Gaps in the spoil bank excluded from the USACE dredging operation were filled in, thereupon reinforcing and forming a continuous structure.

The purpose of the water control structure, which is located at the end of an abandoned oil well access canal, is to allow the water levels in the new and existing marsh to be managed. The structure remains open most of the year, allowing unimpeded ingress and egress of marine organisms. During waterfowl hunting season, which is also low water season, (November through January) the structure is closed to retain water within the southern project area. Water levels are managed to a height not to exceed 6 inches below marsh elevation in the southern project area.

3. Final, as-built features.

The final constructed feature of this project is a continuous dredge channel with an elevation of approximately -6.5 ft NAVD88. The total length of this channel is 1350 feet with a bottom width of 20 feet. The dredge material was placed adjacent to the channel

for the purposes of marsh creation. The new channel will improve the hydrological exchange between the project area and the BBW.

4. Items of Work

Item No.	Work	Unit	Est. Amount	Final Quant.	Bid Unit Price	Final Amount	% Over /Under
1	Mobilization and Demobilization	Lump Sum	1	1	\$34,000.00	\$34,000.00	0%
2	Dredge and Spoil Placement	Cubic Yard	4400	5651	\$29,744.00	\$29,744.00	0%

5. Construction cost.

Original construction contract	\$ 63,744.00
Change Orders	\$ 0.00
Over/Under runs	\$ 0.00
Final construction contract	\$ 63,106.57*

*LDNR was awarded a 1% discount for fast invoice processing.

6. Major equipment used.

- a. W-88 330 CAT Marsh Buggy Backhoe

7. Discuss construction sequences and activities, problems encountered, solutions to problems, etc.

On June 26, 2006, a pre-construction meeting was held in the DNR-NOFO boat shed to discuss the details of the work required and to hand over the replacement lights to the contractor. Due to ordering and receiving time for the buoys and scheduling conflicts with the tug, the contract time was extended through two change orders. The contractor mobilized and placed the two buoys on October 2, 2006. The lights were replaced on October 3, 2006. The final inspection was held on October 4, 2006, at which time construction was completed.

8. Construction change orders and field changes.

There were no changes made to the original contract for this project.

9. Safety and Accidents.

No accidents were reported during the construction of this project. The contractor complied with safety requirements.

10. Significant Construction Dates:

Description	Date
Bid Opening	April 4, 2007
Construction Contract Award	May 22, 2007
Preconstruction Conference	June 5, 2007
Notice to Proceed	June 6, 2007
Mobilization	June 6, 2007
Construction Start	June 8, 2007
Construction Completion	June 13, 2007
Final Acceptance	June 19, 2007