



**State of Louisiana
Department of Natural Resources
Coastal Engineering Division**

**2005/2006 Annual Inspection
Report**

for

**GIWW BANK STABILIZATION
PROJECT (PERRY RIDGE TO
TEXAS (CS-30))**

State Project Number CS-30
Priority Project List 9

October 6, 2005
Calcasieu Parish

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I. Introduction

The GIWW Bank Stabilization (Perry Ridge to Texas) Project (CS-30) is located in the Calcasieu-Sabine Basin on the northern bank of the Gulf Intracoastal Waterway in Calcasieu Parish. The 1,132 acre project area extends from the Perry Ridge on the northern shore of the GIWW westward to the Sabine River. (See Appendix A).

The GIWW Bank Stabilization (Perry Ridge to Texas) Project (CS-30) was authorized by Section 303(a) of Title III Public Law 101-646, the Coastal Wetlands Planning Protection and Restoration Act (CWPPRA) enacted on November 29, 1990 as amended and approved on the ninth Priority Project List. The GIWW Bank Stabilization (Perry Ridge to Texas) Project has a twenty-year (20 year) economic life, which began in July 2002.

II. Project Description and History

The GIWW Bank Stabilization (Perry Ridge to Texas) Project encompasses 1,132 acres and is bounded on the south by the Gulf Intracoastal Waterway (GIWW), on the east by Perry Ridge, on the west by Conway Bayou and the Sabine River, and on the north by a pipeline canal (Attachment II). The project involves the installation and maintenance of approximately 22,952 linear feet of terrace vegetated with California bulrush plants located in shallow water areas north of the GIWW and 10,705 linear feet of foreshore rock dike on the northern bank of the GIWW from Perry Ridge heading westward to the Sabine River and then along the eastern bank of the Sabine River beginning at its intersection with the GIWW and heading north.

The Project has twenty-year (20 year) economic life, which began in July 2002.

The principal project features include:

- Site 1 - Foreshore Rock Dike (approximately 10,705 linear feet)
- Site 2 – Earthen Terraces with vegetative plantings

III. Inspection Purpose and Procedures

The purpose of the annual inspection of the GIWW Bank Stabilization (Perry Ridge to Texas) Project (CS-30) is to evaluate the constructed project features and identify any deficiencies and prepare a report detailing the condition of project features and recommended corrective actions needed. Should it be determined that corrective actions are needed, LDNR 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, 2002). The annual inspection report also contains a summary of maintenance projects which were completed since completion of constructed project features 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. A summary of past operation and maintenance projects completed since completion of the GIWW Bank Stabilization (Perry Ridge to Texas) Project (CS-30) are outlined in Section IV.

In 2003, the CWPPRA Task Force determined, due to the fact that LDNR was responsible for the operation and maintenance phase of the vast majority of CWPPRA projects, that LDNR would be the responsible party for all Post Storm/Hurricane Assessments. After Hurricanes Katrina and Rita, every project appeared to have been impacted by the storms; therefore, LDNR determined that all projects should be assessed for damages (Broussard, 2006). With concurrence from the federal sponsor, LDNR has decided to use the information obtained during this post hurricane assessment in this Annual Maintenance Inspection.

An annual O & M inspection of the GIWW Bank Stabilization (Perry Ridge to Texas) Project (CS-30) was held on October 6, 2005 under sunny skies and mild temperatures. In attendance were Mel Guidry, Stan Aucoin, Mark Mouldous, and Ricky Brouillette of LDNR, along with Cindy Steyer representing NRCS, and Joy Merino representing NMFS (for other inspections). The field inspection included a complete visual inspection on the entire project site. Staff gauge readings and existing benchmarks were used to determine approximate water elevation and existing elevation of the foreshore rock dike and earthen terraces. Photographs were taken at each project feature (see Appendix B) and field inspection notes were compiled to record measurement and deficiencies (Appendix D).

IV. Summary of Past Operation and Maintenance Projects

General Maintenance: There has been no required maintenance as of yet on this project.

2005 Structure Operations: There are no active operations associated with this project.

V. Inspection Results

Site 1—Foreshore rock dike

The dike is in good condition and appears to be in the same condition as to what existed prior to the storm and did not sustain any discernable damage from the storm. No maintenance is recommended at this time. (Photos: Appendix B, Photos 1 & 2)

Site 2—Earthen Terraces with vegetative plantings

The inspection of the earthen terraces and vegetative plantings revealed that no damage was sustained by the earthen terraces, but that minor damage to the vegetative plantings was experienced. Plantings are expected to survive and come back during the next growing season.

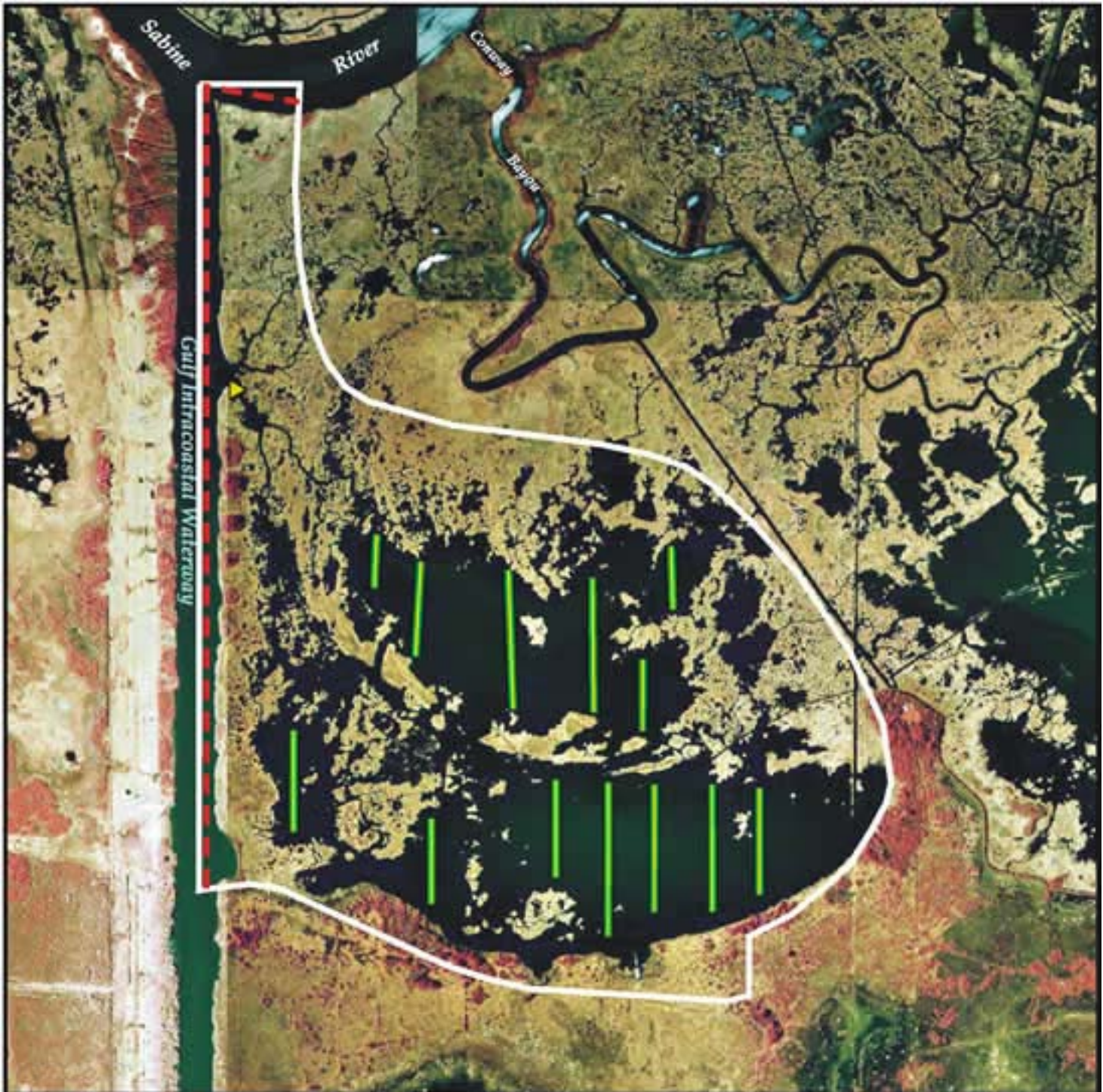
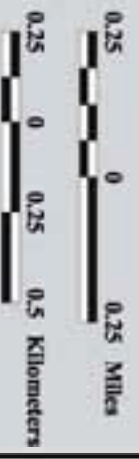
VI. Conclusions and Recommendations

The Perry Ridge West Bank Stabilization Project is in good condition and functioning as designed and did not sustain any major damage from Hurricane RITA.

Appendix A
Project Features Map

GIWW - Perry Ridge West Bank Stabilization (CS-30)

-  Earthen Plug
-  Rock Dike
-  Terrace with Vegetative Planting
-  Project Boundary



Appendix B
Photographs



Photo 1, Typical rock dike.



Photo 2, Rock dike, view looking north.

Appendix C

Three Year Budget Projection

GIWW-PERRY RIDGE BANK STABILIZATION/ CS-30 /PPL 9
Three-Year Operations & Maintenance Budgets 07/01/2005 - 06/30/08

<u>Project Manager</u> Pat Landry	<u>O & M Manager</u> Mel Guidry	<u>Federal Sponsor</u> NRCS	<u>Prepared By</u> Mel Guidry
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	2005/2006	2006/2007	2007/2008
<i>Maintenance Inspection</i>	\$ 4,955.00	\$ 5,250.00	\$ 5,407.00
<i>Structure Operation</i>			
<i>Administration</i>		\$ -	\$ -
<i>Maintenance/Rehabilitation</i>			

05/06 Description:

<i>E&D</i>	
<i>Construction</i>	
<i>Construction Oversight</i>	
<i>Sub Total - Maint. And Rehab.</i>	\$ -

06/07 Description:

<i>E&D</i>	\$ -
<i>Construction</i>	\$ -
<i>Construction Oversight</i>	\$ -
<i>Sub Total - Maint. And Rehab.</i>	\$ -

07/08 Description:

<i>E&D</i>	\$ -
<i>Construction</i>	\$ -
<i>Construction Oversight</i>	\$ -
<i>Sub Total - Maint. And Rehab.</i>	\$ -

	2005/2006	2006/2007	2007/2008
<u>Total O&M Budgets</u>	\$ 4,955.00	\$ 5,250.00	\$ 5,407.00

<u>O & M Budget (3 yr Total)</u>	\$ 15,612.00
<u>Existing O & M Budget</u>	\$ 47,187.00
<u>Remaining O & M Budget (Projected)</u>	\$ 31,575.00

Appendix D

Field Inspection Form

MAINTENANCE INSPECTION REPORT CHECK SHEET

Project No. / Name: CS-30 GIWW-Perry Ridge

Date of Inspection: October 6, 2005 Time:

Structure No.

Inspector(s): Stan Aucoin, Herb Juneau, Mark Mouledous
Ricky Brouillette(LDNR); Cindy Steyer (NRCS), Joy Merino (NMFS)
Water Level +2.6

Structure Description: , Rock Dike/Earthen Terraces

Type of Inspection: Annual

Weather Conditions: Clear & mild

Item	Condition	Physical Damage	Corrosion	Photo #	Observations and Remarks
Steel Bulkhead / Caps	N/A				
Steel Grating	N/A				
Stop Logs	N/A				
Hardware	N/A				
Timber Piles	N/A				
Timber Wales	N/A				
Galv. Pile Caps	N/A				
Cables	N/A				
Signage /Supports	N/A				
Rip Rap (fill) (foreshore dike)	Good			1 & 2	
Earthen Terraces	Good				
Vegetative Plantings	Fair				Minor damage to the vegetative plantings, however expected to survive and come back next growing season.

- What are the conditions of the existing levees?
- Are there any noticeable breaches?
- Settlement of rock plugs and rock weirs?
- Position of stoplogs at the time of the inspection?
- Are there any signs of vandalism?

Appendix E

Locations to be Monitored