



ATTENDANCE RECORD



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| DATE(S) October 9, 2008 9:30 A.M. | SPONSORING ORGANIZATION COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT | LOCATION U.S. Army Corps of Engineers New Orleans District Headquarters District Assembly Room 7400 Leake Ave., New Orleans, La. |
|---|---|--|

PURPOSE **MEETING OF THE CWPPRA TECHNICAL COMMITTEE**

| PARTICIPANT REGISTER* | | |
|-----------------------|--|---------------------------------------|
| NAME | JOB TITLE AND ORGANIZATION | PHONE NUMBER & EMAIL |
| TODD FOLSE | Coastal Res Scientist Super. | 985-447-0991 todd.folse@da.gov |
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| Sue Hawes | COE | |
| | | |

BREAUX ACT

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT TECHNICAL COMMITTEE MEETING

AGENDA

October 9, 2008 9:30 a.m.

Location:

U.S. Army Corps of Engineers Office
7400 Leake Ave.
New Orleans, Louisiana
District Assembly Room (DARM)

Documentation of Technical Committee meetings may be found at:

http://www.mvn.usace.army.mil/pd/cwppra_mission.htm

Tab Number

Agenda Item

- 1. Report/Discussion: Impacts of Hurricanes Gustav and Ike (Tom Holden, USACE/Garrett Broussard, CRPA) 9:30 a.m. to 10:20 a.m.** Mr. Garrett Broussard will discuss the status of impacts of Hurricanes Gustav and Ike on CWPPRA projects.
- 2. Status of Breaux Act Program Funds and Projects (Gay Browning, USACE) 10:20 a.m. to 10:35 a.m.** Ms. Gay Browning will provide an overview of the status of CWPPRA accounts and available funding in the Planning and Construction Programs.
- 3. Report/Decision: CWPPRA Program Projected Funding Capacity (Melanie Goodman, USACE) 10:35 a.m. to 11:10 a.m.** Ms. Goodman will report on projections of the CWPPRA program funding capacity and implications for future priority project lists. The Technical Committee will consider recommendations to the Task Force on: 1) updating all PPL project cost estimates in order to better project the CWPPRA program funding capacity; and 2) options for future PPLs.
- 4. Report: Task Force Fax Vote Approval on USACE and LACPRA Request to Increase the Construction Budget for the PPL 8 - Sabine Refuge Marsh Creation Project, Cycle 2 (CS-28-2) (Tom Holden, USACE/Melanie Goodman, USACE) 11:10 a.m. to 11:15 a.m.** The Technical Committee voted by email to recommend Task Force Fax vote approval of a construction budget increase request by the U.S. Army Corps of Engineers (USACE) and the Louisiana Coastal Protection and Restoration Authority (LACPRA) for the PPL 8 - Sabine Refuge Marsh Creation Project, Cycle 2 (CS-28-2). The Task Force approved the Technical Committee's recommendation to increase the project construction budget in the amount of \$5,000,000, including immediate funding in the amount of \$2,060,351, to construct a permanent sediment delivery pipeline. Bids for the pipeline construction were greater than the government's maximum awardable amount, and a contract was therefore not awarded. The USACE project manager will provide a status on the construction contract bid opening and proposed path forward for the project.

- 5. Report: Task Force Fax Vote Request for Change in Scope for the PPL 14 - East Marsh Island Marsh Creation Project (TV-21) (Tim Landers, EPA) 11:15 a.m. to 11:20 a.m.** The U.S. Environmental Protection Agency (EPA), U.S. Natural Resources Conservation Service (NRCS) and Louisiana Coastal Protection and Restoration Authority (LACPRA) requested Technical Committee recommendation for Task Force fax vote approval for a change in scope for the TV-21 project due to estimated construction cost increases exceeding 25% over those originally authorized in 2005. Project features have also changed from creating approximately 189 acres of marsh and nourishing an additional 189 acres, to creating approximately 165 acres of marsh and nourishing an additional 197 acres. The Task Force approved the requested change in scope by fax vote.
- 6. Decision: FY09 Planning Budget Approval, including the PPL 19 Process, and Presentation of FY09 Outreach Budget (Melanie Goodman, USACE/Scott Wilson, USGS) 11:20 a.m. to 11:30 a.m.**
- a. The Planning and Evaluation Subcommittee (P&E) is recommending that the PPL 19 Planning Process Standard Operating Procedures include selecting three nominees in the Barataria, Terrebonne, and Pontchartrain Basins, and two nominees in all other basins, except Atchafalaya where only one nominee would be selected. If only one project is presented at the Regional Planning Team meeting for the Mississippi River Delta Basin, then an additional nominee would be selected for the Breton Sound Basin.
 - b. The P&E will recommend the FY09 Planning Budget in the amount of \$4,930,325 (excluding supplemental tasks for evaluating project estimates). The Technical Committee will vote on making a recommendation to the Task Force to approve the FY09 Planning Budget.
 - c. The CWPPRA Outreach Committee will present the draft FY09 Outreach Committee Budget in the amount of \$516,310 to the Technical Committee for coordination and discussion purposes only. The outreach budget will be recommended to the Task Force on November 5, 2008 by the Outreach Committee.
- 7. Decision: Annual Request for Incremental Funding for Administrative Costs for Cash Flow Projects (Gay Browning, USACE) 11:30 a.m. to 11:35 a.m.** The U.S. Army Corps of Engineers will request funding approval in the amount of \$22,138 for administrative costs for cash flow projects beyond Increment 1. The Technical Committee will vote to make a recommendation to the Task Force on the request for funds.
- 8. Decision: Request for Operation and Maintenance (O&M) Incremental Funding (David Burkholder, CPRA) 11:35 a.m. to 12:00 p.m.** The Technical Committee will consider and vote to make a recommendation to the Task Force to approve requests for total O&M funding of \$2,454,194.
- a. PPL 1-8 Projects requesting funding increases in the amount of \$353,450 for the following projects:
 - Cameron-Creole Plugs (CS-17), PPL-1, USFWS
Request increase in the amount of \$95,191.
 - Black Bayou Hydrologic Restoration (CS-27), PPL-6, NMFS
Requested increase in the amount of \$124,359.
 - Freshwater Bayou Wetland Protection (ME-04), PPL-2, NRCS
Requested increase in the amount of \$98,860.
 - Freshwater Bayou Bank Stabilization (ME-13), PPL-5, NRCS
Requested increase in the amount of \$35,040.
 - b. PPL 9+ Projects requesting incremental funding for FY12 O&M costs in the amount of \$2,100,744 for the following projects:
 - Little Lake Shoreline Protection and Marsh Creation (BA-37), PPL-11, NMFS
Requested increase in the amount of \$58,949.
 - Coastwide Nutria Control Program (LA-03b), PPL-11, NRCS
Requested increase in the amount of \$2,041,795.

9. Decision: Request for FY12 Project Specific Monitoring Funds for Projects on Cash Flow Projects, and FY12 Coastwide Reference Monitoring System (CRMS)-Wetlands Monitoring Funds (Greg Steyer, USGS) 12:00 p.m. to 12:15 p.m. Following a presentation by USGS on the status/progress of CRMS over the past year, the Technical Committee will vote on the following requests:

- a. Project specific FY12 monitoring funding for projects on PPLs 9+ in the amount of \$146,243 for the following projects:
 - Four Mile Canal Terracing and Sediment Trapping (TV-18), PPL-9, NMFS
Requested increase in the amount of \$24,511
 - Coastwide Nutria Control Program (LA-03b), PPL-11, NRCS
Requested increase in the amount of \$121,732
- b. CRMS FY12 monitoring funds in the amount of \$7,600,455.

- - - LUNCH BREAK - - - 1 hour

10. Discussion: River Diversions and Potential Induced Shoaling (Melanie Goodman, USACE/ Amena Henville, USACE) 1:15 p.m. to 1:35 p.m. The USACE will provide a brief on potential impacts of River Diversions proposed on the Mississippi River and the dynamics of induced shoaling. An update on the West Bay Sediment Diversion Project performance will also be provided.

11. Decision: Request for Operations and Maintenance (O&M) Budget Increase and Incremental Funding for PPL 1 – West Bay Sediment Diversion Project (MR-03) (Melanie Goodman, USACE) 1:35 p.m. to 2:05 p.m. The Corps of Engineers is requesting Technical Committee recommendation for Task Force approval for an O&M budget increase in the amount of \$118,451,908 for the MR-03 project to cover maintenance dredging in the Pilottown Anchorage Area (PAA) through 2023 and to expand the diversion channel to the approved 50,000 cfs capacity. With this, the Corps is requesting incremental funding in the amount of \$10,998,550 for the next three years to conduct maintenance dredging in the PAA.

12. Decision: Request for Change in Scope and Budget Increase for PPL 3 -West Pointe a la Hache Outfall Management Project (BA-4c) (Britt Paul, NRCS) 2:05 p.m. to 2:20 p.m. The U.S. Natural Resource Conservation Service (NRCS) and Louisiana Coastal Protection Restoration Authority (LACPRA) request Technical Committee recommendation for Task Force approval for a change in project scope and a budget increase in the amount of \$1,101,221 for the BA-4c project. The additional funds are not needed at this time to complete Engineering and Design, and therefore would be requested when project construction approval is requested.

13. Discussion/Decision: Status of Unconstructed Projects (Britt Paul, NRCS/Melanie Goodman, USACE;) 2:20 p.m. to 2:45 p.m. The NRCS and CPRA will report on the status of the Brown Lake Hydrologic Restoration Project. The Technical Committee will also consider recommending Task Force approval to deauthorize or transfer the below listed projects:

- **Projects Considered for Deauthorization:**
 1. Periodic Introduction of Sediment & Nutrients at Selected Diversion Sites Demo
 2. Grand Bayou Hydrologic Restoration
- **Projects Considered for Transfer to the Louisiana Coastal Impact Assistance Program:**
 3. East Grand Terre Island Restoration
- **Projects Considered for Transfer to the Louisiana Coastal Area (LCA) Program:**
 4. Delta Building Diversion at Myrtle Grove

- 14. Discussion: Status of the Donaldsonville to the Gulf Feasibility Study (Robert Esenwein, USACE) 2:45 p.m. to 3:05 p.m.** The USACE will provide a brief on the status of the Donaldsonville to the Gulf Feasibility Study and how the study process is considering potential impacts to existing and proposed CWPPRA projects.
- 15. Additional Agenda Items (Tom Holden, USACE) 3:05 p.m. to 3:10 p.m.**
- 16. Request for Public Comments (Tom Holden, USACE) 3:10 p.m. to 3:15 p.m.**
- 17. Announcement: Date of Upcoming CWPPRA Program Meeting (Melanie Goodman, USACE) 3:15 p.m. to 3:20 p.m.** The Task Force meeting will be held November 5, 2008 at 9:30 a.m. at the U.S. Army Corps of Engineers, 7400 Leake Ave., New Orleans, Louisiana in the District Assembly Room (DARM).
- 18. Announcement: Scheduled Dates of Future Program Meetings (Melanie Goodman, USACE) 3:20 p.m. to 3:25 p.m.**

2008

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|-------------------------|------------------|-----------------------|--------------------|
| November 5, 2008 | 9:30 a.m. | Task Force | New Orleans |
| November 18, 2008 | 7:00 p.m. | PPL 18 Public Meeting | Abbeville |
| November 19, 2008 | 7:00 p.m. | PPL 18 Public Meeting | New Orleans |
| December 3, 2008 | 9:30 a.m. | Technical Committee | New Orleans |

2009

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| January 21, 2009 | 9:30 a.m. | Task Force | New Orleans |
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- 19. Decision: Adjourn**

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT
TECHNICAL COMMITTEE MEETING

October 9, 2008

IMPACTS OF HURRICANES GUSTAV AND IKE

For Report/Discussion:

Mr. Garrett Broussard will discuss the status of impacts of Hurricanes Gustav and Ike on CWPPRA projects.

**Cost Proposal for the Post Storm Assessment of
CWPPRA Projects for Hurricane Gustav / Ike**

Hurricane's Gustav and Rita hit the coast of Louisiana within weeks of each other and after assessing the location of their landfall, it is evident that all areas of the Louisiana's Coastal wetlands were impacted.

Because of the number of projects potentially damaged, it is projected that the current cost estimate of \$100,000.00 is insufficient to adequately assess the projects appropriately. Please find the following cost proposal.

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| Plane Flight(2) for FEMA inspection | \$1830/day x 2= | \$3660.00 |
| Initial meetings | 10@ 8hrs x \$50 = | \$4,000.00 |
| Follow up meetings | 10@ 8hrs x \$50 = | \$4,000.00 |
| Field trips includes personnel, equipment And report preparation | 57 x \$5000 = | \$285,000 |
| Indirect Costs (23.45 %) (Plane not included) | | \$69,567 |
| | Total projected cost | \$366,227 |
| | Less budgeted cost | (\$100,000) |
| | <u>Proposed Funding Request</u> | <u>\$266,227</u> |

| Field Office | Basin | Project No. | Project Name | Type of Project | PPL- Progr | Project Phase | Federal Sponsor | Federal Project Manager | DNR Phase 1 manager | Con, O&M Manager | Monitoring Manager |
|--------------|-------|-------------|--|--|---------------|------------------|--------------------|-------------------------------|------------------------|---------------------|-----------------------|
| L | AT | AT02 | Atchafalaya Sediment Delivery | Sediment Diversion/Beneficial Use of Dredged Material/Marsh Creation | 2 | O&M | NMFS | Zobrist | Landry | Juneau | Curole |
| L | AT | AT03 | Big Island Mining | Sediment Diversion/Beneficial Use of Dredged Material/Marsh Creation | 2 | O&M | NMFS | Zobrist | Landry | Juneau | Curole |
| L | AT | AT04 | Castille Pass Channel Sediment Delivery | Marsh Creation/Sediment and Nutrient Trapping | 9 | E&D | NMFS | Foret | Chatellier | Juneau | Hubbell |
| NO | BA | BA01 | Davis Pond Freshwater Diversion | Freshwater Diversion | WRDA | O&M | COE | Fredine | Boddie | Bernard | Barmore |
| T | BA | BA02 | GIWW (Gulf Intracoastal Waterway) to Clovelly Hydrologic Restoration | Hydrologic Restoration | 1 | O&M | NRCS | Paul | Babin | Babin | Lear |
| NO | BA | BA03 | Naomi Diversion | Freshwater Diversion | ST | O&M | State | N/A | Boddie | Bernard | Troutman |
| NO | BA | BA03c | Naomi Outfall Management | Outfall Management | 5 | O&M | NRCS | Paul | Boddie | Richard | Boshart |
| NO | BA | BA04 | West Point a la Hache Freshwater Diversion | Freshwater Diversion | ST | O&M | State | N/A | Boddie | Bernard | Troutman |
| NO | BA | BA04c | West Pointe a la Hache Outfall Management | Outfall Management | 3 | E&D | NRCS | Steyer | Merhi | Bernard | Boshart |
| T | BA | BA15 | Lake Salvador Shore Protection Demonstration | Shoreline Protection | 3 | O&M | NMFS | Zobrist | Babin | Triche | Curole |
| T | TE | BA-15x1 | Lake Salvador Mitigation | | ST | O&M | State | N/A | Babin | Triche | Curole |
| NO | BA | BA16 | Bayou Segnette | Shoreline Protection | ST | O&M | State | N/A | Boddie | Boddie | Hymel |
| T | BA | BA19 | Barataria Bay Waterway Wetland Restoration | Marsh Creation | 1 | O&M | COE | LeBlanc | Babin | Dearmond | Curole |
| NO | BA | BA20 | Jonathan Davis Wetland Protection | Hydrologic Restoration/Shoreline Protection | 2 | O&M | NRCS | Kinler | Merhi | Richard | Barmore |
| NO | BA | BA23 | Barataria Bay Waterway West Side Shoreline Protection | Shoreline Protection | 4 | O&M | NRCS | Paul | Boddie | Richard | Barmore |
| T | BA | BA25b | Mississippi River Reintroduction Into Bayou Lafourche | Freshwater Introduction | 11 | E&D | EPA | Crawford | Roberts | Dearmond | West |
| NO | BA | BA26 | Barataria Bay Waterway East Side Shoreline Protection | Shoreline Protection | 6 | O&M | NRCS | Paul | Boddie | Richard | Boshart |
| T | BA | BA27 | Barataria Basin Landbridge Shoreline Protection, Phases 1 and 2 | Shoreline Protection | 7 | E&D, C, O&M | NMFS | Kinler | Babin | Babin | Hymel |
| T | BA | BA27c | Barataria Basin Landbridge Shoreline Protection, Phase 3 | Shoreline Protection | 9 | E&D, C, O&M | NRCS | Kinler | Merhi | Babin | Hymel |
| T | BA | BA27d | Barataria Basin Landbridge Shoreline Protection Phase 4 | Shoreline Protection | 11 | C | NRCS | Kinler | Merhi | Babin | Hymel |
| T | BA | BA28 | Vegetative Plantings of a Dredged Material Disposal Site on Grand Terre Island | Vegetation Planting | 7 | O&M | NMFS | Hartman | Lovell | Babin | Lear |

| Field Office | Basin | Project No. | Project Name | Type of Project | PPL-Progr | Project Phase | Federal Sponsor | Federal Project Manager | DNR Phase 1 manager | Con, O&M Manager | Monitoring Manager |
|--------------|-------|-------------|--|---|-----------|---------------|-----------------|-------------------------|---------------------|------------------|--------------------|
| T | BA | BA30 | East/West Grand Terre Islands Restoration | Barrier Island | 9 | E&D | NMFS | Sweeney | Grandy | Triche | West |
| NO | BA | BA31 | Delta Building Diversion South of Empire | | 9 | E&D | COE | Miller | Duffy | Bernard | |
| NO | BA | BA33 | Delta Building Diversion at Myrtle Grove | Freshwater Diversion/Sediment Diversion | 10 | E&D | COE | Axtman | Duffy | Bernard | Barmore |
| NO | BA | BA34 | Mississippi River Reintroduction Into Northwest Barataria Basin | Freshwater Diversion | 10 | E&D | EPA | Teague | Williams | Boddie | Curole |
| NO | BA | BA35 | Pass Chaland to Grand Bayou Pass Barrier Shoreline Restoration | Shoreline Protection | 11 | E&D | NMFS | Sweeney | Grandy | Richard | Carter |
| NO | BA | BA36 | Dedicated Dredging on the Barataria Basin Landbridge | Marsh Creation | 11 | E&D | FWS | Roy | Libersat | Boddie | Hymel |
| T | BA | BA37 | Little Lake Shoreline Protection/ Dedicated Dredging Near Round Lake | Shoreline Protection | 11 | C | NMFS | Brodnax | Grandy | Dearmond | Curole |
| NO | BA | BA38 | Pelican Island and Pass La Mer to Chaland Pass Restoration | Barrier Island | 11 | C | NMFS | Sweeney | Grandy | Richard | |
| NO | BA | BA39 | Mississippi River Sediment Delivery System | | 12 | E&D | EPA | Ethridge | Williams | Bernard | Troutman |
| NO | BA | BA40 | Riverine Sand Mining/Scofield Island Restoration | Barrier Island/Marsh Creation | 14 | E&D | NMFS | Sweeney | Grandy | Richard | |
| NO | BA | BA41 | South Shore of the Pen Shoreline Protection and Marsh Creation | Shoreline Protection/Marsh Creation | 14 | E&D | NRCS | | | Richard | |
| NO | BS | BS03a | Caernarvon Diversion Outfall Management | Outfall Management | 2 | O&M | NRCS | Broussard | Boddie | Bernard | Carter |
| NO | BS | BS08 | Caernarvon | Freshwater Introduction | WRDA | O&M | COE | Faulk | Bernard | Bernard | Troutman |
| NO | BS | BS10 | Delta Building Diversion North of Fort St. Philip | Freshwater Diversion/Sediment Diversion | 10 | E&D | COE | Goodman | Duffy | Bernard | Hymel |
| NO | BS | BS11 | Delta Management at Fort St. Philip | Outfall Management | 10 | E&D | FWS | Roy | Libersat | Bernard | Hymel |
| NO | BS | BS12 | White's Ditch Resurrection & Outfall Management | Freshwater Diversion/Outfall Management | 14 | E&D | NRCS | | Merhi | Bernard | |
| L | TV | CAT01 | Cheniere Au Tigre Shoreline Protection | Shoreline Protection | ST | C | State | | Phillips | Aucoin | |
| L | CS | CSXX | Sabine Terraces | | ST | O&M | State | N/A | Landry | Landry | Weifenbach |
| L | CS | CS01 | Holly Beach Breakwaters | Shoreline Protection | ST | O&M | State | N/A | Landry | Juneau | Weifenbach |
| L | CS | CS02 | Rycade Canal Marsh Management | Marsh Management | ST | O&M | State | N/A | Landry | Aucoin | Miller |
| L | CS | CS04A | Cameron-Creole Maintenance | Hydrologic Restoration | 3 | O&M | NRCS | Floyd | Landry | Billodeau | Weifenbach |

| Field Office | Basin | Project No. | Project Name | Type of Project | PPL- Progr | Project Phase | Federal Sponsor | Federal Project Manager | DNR Phase 1 manager | Con, O&M Manager | Monitoring Manager |
|--------------|-------|-------------|---|--------------------------------|---------------|------------------|--------------------|-------------------------------|------------------------|---------------------|-----------------------|
| L | CS | CS09 | Brown Lake Hydrologic Restoration | Hydrologic Restoration | 2 | E&D | NRCS | Paul | Landry | Juneau | Miller |
| L | CS | CS11B | Sweet Lake/Willow Lake Hydrologic Restoration | Hydrologic Restoration | 5 | O&M | NRCS | Floyd | Landry | Guidry | Miller |
| L | CS | CS17 | Cameron Creole Plugs | Hydrologic Restoration | 1 | O&M | FWS | Voros | Landry | Billodeau | Phillips |
| L | CS | CS18 | Sabine National Wildlife Refuge Erosion Protection | Shoreline Protection | 1 | O&M | FWS | Voros | Landry | Guidry | Phillips |
| L | CS | CS19 | West Hackberry Vegetative Planting Demonstration | Vegetation Planting | 1 | DEMO | NRCS | Paul | Landry | Aucoin | Weifenbach |
| L | CS | CS20 | East Mud Lake Marsh Management | Marsh Management | 2 | O&M | NRCS | Paul | Landry | Landry | Castellanos |
| L | CS | CS21 | Highway 384 Hydrologic Restoration | Hydrologic Restoration | 2 | O&M | NRCS | Broussard | Landry | Billodeau | Vincent |
| L | CS | CS22 | Clear Marais Bank Protection | Shoreline Protection | 2 | O&M | COE | Monnerjahn | Landry | Guidry | Miller |
| L | CS | CS23 | Replace Sabine Refuge Water Control Structures at Headquarters Canal, West Cove Canal, and Hog Island Gully | Marsh Management | 3 | O&M | FWS | Pease | Landry | Billodeau | Miller |
| L | CS | CS24 | Perry Ridge Shore Protection | Shoreline Protection | 4 | O&M | NRCS | Sapp | Landry | Guidry | Mouledous |
| L | CS | CS25 | Plowed Terraces Demonstration | Sediment and Nutrient Trapping | 4 | DEMO | NRCS | Paul | Landry | Juneau | Castellanos |
| L | CS | CS27 | Black Bayou Hydrologic Restoration | Hydrologic Restoration | 6 | O&M | NMFS | Foret | Landry | Juneau | Castellanos |
| L | CS | CS28 | Sabine Refuge Marsh Creation, Increment 1 | Marsh Creation | 8 | O&M | COE | Monnerjahn | Landry | Juneau | Phillips |
| L | CS | CS29 | Black Bayou Culverts Hydrologic Restoration | Hydrologic Restoration | 9 | C | NRCS | Faulkner | Merhi | Landry | Phillips |
| L | CS | CS30 | GIWW - Perry Ridge West Bank Stabilization | Shoreline Protection | 9 | O&M | NRCS | Sapp | Landry | Guidry | Mouledous |
| L | CS | CS31 | Holly Beach Sand Management | | 11 | O&M | NRCS | Paul | Landry | Juneau | Mouledous |
| L | CS | CS32 | East Sabine Lake Hydrologic Restoration | Hydrologic Restoration | 10 | E&D, C | FWS | Clark | Libersat | Billodeau | Price |
| L | CS | CS4A1 | Cameron Creole Automation | Hydrologic Restoration | ST | O&M | State | Pease | Landry | Billodeau | Weifenbach |
| NO | MR | LA01(1) | Dedicated Dredging Program - Pass A Loure Site | Marsh Creation | ST | C | State | | Phillips | Bernard | |
| T | T | LA01(2) | Dedicated Dredging Program - Terrebonne Parish School Board Site | Marsh Creation | ST | C | State | | Phillips | Triche | |
| T | LA | LA05 | Floating Marsh Creation Demonstration Project | | 12 | E&D | NRCS | Steyer | Merhi | Babin | Folse |

| Field Office | Basin | Project No. | Project Name | Type of Project | PPL- Progr | Project Phase | Federal Sponsor | Federal Project Manager | DNR Phase 1 manager | Con, O&M Manager | Monitoring Manager |
|--------------|-------|-------------|---|---|---------------|------------------|--------------------|-------------------------------|------------------------|---------------------|-----------------------|
| L | LA | LA06 | Shoreline Protection Foundation Improvements Demonstration | Shoreline Protection | 13 | C | COE | Goodman | Duffy | Juneau | Raynie |
| L | ME | ME01 | Pecan Island Structure | Freshwater Diversion | ST | O&M | State | N/A | Landry | Guidry | Miller |
| L | ME | ME04 | Freshwater Bayou Wetland (Phases 1 & 2) | Shoreline Protection/Hydrologic Restoration | 2 | O&M | NRCS | Conti | Landry | Guidry | Weifenbach |
| L | ME | ME09 | Cameron Prairie National Wildlife Refuge Shoreline Protection | Shoreline Protection | 1 | O&M | FWS | Pease | Landry | Guidry | Mouledous |
| L | ME | ME11 | Humble Canal Hydrologic Restoration | Hydrologic Restoration | 8 | O&M | NRCS | Floyd | Landry | Guidry | Price |
| L | ME | ME13 | Freshwater Bayou Bank Stabilization | Shoreline Protection | 5 | O&M | NRCS | Conti | Landry | Guidry | Vincent |
| L | ME | ME14 | Pecan Island Terracing | Sediment and Nutrient Trapping | 7 | O&M | NMFS | Foret | Landry | Guidry | Thibodeaux |
| L | ME | ME16 | Freshwater Introduction South of Highway 82 | Hydrologic Restoration/Marsh Creation | 9 | C | FWS | Clark | Libersat | Billodeau | Mouledous |
| L | ME | ME17 | Little Pecan Bayou Hydrologic Restoration | Hydrologic Restoration | 9 | E&D | NRCS | Conti | Merhi | Pontiff | Weifenbach |
| L | ME | ME18 | Rockefeller Refuge Gulf Shoreline Stabilization | Shoreline Protection | 10 | E&D | NMFS | Foret | Chatellier | Juneau | Barrilleaux |
| L | ME | ME19 | Grand-White Lakes Landbridge Protection | Shoreline Protection | 10 | O&M | FWS | Clark | Libersat | Guidry | Thibodeaux |
| L | ME | ME20 | South Grand Chenier Hydrologic Restoration Project | Hydrologic Restoration | 11 | E&D | FWS | Clark | Libersat | Pontiff | Barrilleaux |
| L | ME | ME21 | Grand Lake Shoreline Protection | Shoreline Protection | 11 | E&D | COE | Monnerjahn | Duffy | Juneau | Mouledous |
| L | ME | ME22 | South White Lake Shoreline Protection | Shoreline Protection | 12 | C | COE | Monnrjahn | Duffy | Juneau | Barrilleaux |
| NO | MR | MR03 | West Bay Sediment Diversion | Sediment Diversion | 1 | O&M | COE | Miller | Hodnett | Boddie | Boshart |
| NO | MR | MR06 | Channel Armor Gap Crevasse | Sediment Diversion | 3 | O&M | COE | | Boddie | Boddie | Barmore |
| NO | MR | MR09 | Delta Wide Crevasse | Sediment Diversion | 6 | O&M | NMFS | Zobrist | Boddie | Bernard | Barmore |
| NO | MR | MR10 | Dustpan Maintenance Dredging Operations for Marsh Creation in the Mississippi River Delta Demonstration | Beneficial Use of Dredged Material | 6 | DEMO | COE | Russo | Boddie | Boddie | Barmore |
| NO | MR | MR11 | Periodic Introduction of Sediment and Nutrients at Selected Diversion Sites Demonstration | Freshwater Diversion | 9 | E&D | COE | Monnerjahn | Duffy | Boddie | Carter |
| NO | MR | MR12 | Mississippi River Sediment Trap | | 9 | E&D | COE | Miller | Duffy | Bernard | Barmore |
| NO | MR | MR13 | Benneys Bay Diversion | Freshwater Diversion | 10 | E&D | COE | Miller | Duffy | Bernard | Hymel |

| Field Office | Basin | Project No. | Project Name | Type of Project | PPL-Progr | Project Phase | Federal Sponsor | Federal Project Manager | DNR Phase 1 manager | Con, O&M Manager | Monitoring Manager |
|--------------|-------|-------------|--|-------------------------------------|-----------|---------------|-----------------|-------------------------|---------------------|------------------|--------------------|
| NO | MR | MR14 | Spanish Pass Diversion | Freshwater Diversion | 13 | E&D | COE | Miller | Duffy | Boddie | Boshart |
| NO | PO | PO01 | Violet Siphon | Freshwater Diversion | ST | O&M | State | N/A | Cook | Richard | Hymel |
| NO | PO | PO03b | Labranche Shoreline Protection | Shoreline Protection | ST | O&M | State | N/A | Boddie | Boddie | Troutman |
| NO | PO | PO06 | Fritchie Marsh Restoration | Hydrologic Restoration | 2 | O&M | NRCS | Jurgensen | Boddie | Richard | Hymel |
| NO | PO | PO10 | Turtle Cove | Shoreline Protection | ST | O&M | State | N/A | Boddie | Boddie | Boshart |
| NO | PO | PO16 | Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1 | Hydrologic Restoration | 1 | O&M | FWS | Dixon | Boddie | Richard | Hymel |
| NO | PO | PO17 | Bayou LaBranche Wetland Creation | Beneficial Use of Dredged Material | 1 | O&M | COE | LeBlanc | Boddie | Boddie | Boshart |
| NO | PO | PO18 | Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 2 | Hydrologic Restoration | 2 | O&M | FWS | Dixon | Boddie | Richard | Hymel |
| NO | PO | PO19 | Mississippi River Gulf Outlet (MRGO) Disposal Area Marsh Protection | Marsh Management | 3 | O&M | COE | LeBlanc | Boddie | Boddie | Troutman |
| NO | PO | PO22 | Bayou Chevee Shoreline Protection | Shoreline Protection | 5 | O&M | COE | Monnrjahn | Boddie | Richard | Carter |
| NO | PO | PO24 | Hopedale Hydrologic Restoration | Hydrologic Restoration | 8 | O&M | NMFS | Sweeney | Grandy | Richard | |
| NO | PO | PO26 | Opportunistic Use of the Bonnet Carre' Spillway | Freshwater Diversion | 9 | E&D | COE | Monnerjahn | Duffy | Bernard | |
| NO | PO | PO27 | Chandeleur Islands Marsh Restoration | Vegetation Planting | 9 | O&M | NMFS | Sweeney | Grandy | Boddie | Hymel |
| NO | PO | PO29 | River Reintroduction into Maurepas Swamp | Freshwater Diversion | 11 | E&D | EPA | Teague | Williams | Boddie | Barmore |
| NO | PO | PO30 | Lake Borgne Shoreline Protection | Shoreline Protection/Marsh Creation | 10 | E&D | EPA | Taylor | Williams | Bernard | Troutman |
| NO | PO | PO31 | Lake Borgne Shoreline Protection at Bayou Dupre | Shoreline Protection/Marsh Creation | 11 | E&D | EPA | Taylor | Williams | Bernard | Troutman |
| NO | PO | PO32 | Lake Borgne and MRGO Shoreline Protection | Shoreline Protection | 12 | E&D | COE | Miller | Duffy | Boddie | Troutman |
| NO | PO | PO33 | Goose Point/Point Platte Marsh Creation | Marsh Creation | 13 | E&D | FWS | Roy | Libersat | Bernard | Troutman |
| T | TE | TE01 | Montegut Wetlands | Marsh Management | NC | O&M | State | N/A | Libersat | Triche | Hubbell |
| T | TE | TE02 | Falgout Canal Wetlands | Marsh Management | ST | O&M | State | N/A | Libersat | Dearmond | Folse |
| T | TE | TE03 | Bayou LaCache Wetlands | Marsh Management | ST | O&M | State | N/A | Libersat | Triche | Hubbell |

| Field Office | Basin | Project No. | Project Name | Type of Project | PPL-Progr | Project Phase | Federal Sponsor | Federal Project Manager | DNR Phase 1 manager | Con, O&M Manager | Monitoring Manager |
|--------------|-------|-------------|---|---|-----------|---------------|-----------------|-------------------------|---------------------|------------------|--------------------|
| T | TE | TE07 | Lashbrook | | ST | O&M | State | N/A | Babin | Babin | Not Monitored |
| T | TE | TE10 | Grand Bayou/GIWW Freshwater Diversion | Freshwater Introduction | 5 | E&D | FWS | Paille | Libersat | Babin | West |
| T | TE | TE17 | Falgout Canal Planting Demonstration | Veg. Planting | 1 | DEMO | NRCS | | | Triche | Not Monitored |
| T | TE | TE20 | Isles Dernieres Restoration East Island | Barrier Island | 1 | O&M | EPA | Bunn | Dearmond | Dearmond | West |
| T | TE | TE22 | Point Au Fer Canal Plugs | Shoreline Protection/Hydrologic Restoration | 2 | O&M | NMFS | Zobrist | Babin | Triche | Vacant |
| T | TE | TE23 | West Belle Pass Headland Restoration | Beneficial Use of Dredged Material | 2 | O&M | COE | Rabalais | Dearmond | Dearmond | Curole |
| T | TE | TE24 | Isles Dernieres Restoration Trinity Island | Barrier Island | 2 | O&M | EPA | Bunn | Dearmond | Dearmond | West |
| T | TE | TE25 | East Timbalier Island Sediment Restoration, Phase 1 | Barrier Island | 3 | O&M | NMFS | Zobrist | Dearmond | Dearmond | Vacant |
| T | TE | TE26 | Lake Chapeau Sediment Input and Hydrologic Restoration, Point Au Fer Island | Hydrologic Restoration/Marsh Creation | 3 | O&M | NMFS | Zobrist | Babin | Triche | Lear |
| T | TE | TE27 | Whiskey Island Restoration | Barrier Island | 3 | O&M | EPA | Bunn | Babin | Babin | West |
| T | TE | TE28 | Brady Canal Hydrologic Restoration | Hydrologic Restoration | 3 | O&M | NRCS | Paul | Babin | Babin | Folse |
| T | TE | TE29 | Raccoon Island Breakwaters Demonstration | Barrier Island | 5 | DEMO | NRCS | Broussard | Babin | Babin | Folse |
| T | TE | TE30 | East Timbalier Island Sediment Restoration, Phase 2 | Barrier Island | 4 | O&M | NMFS | Zobrist | Dearmond | Dearmond | Vacant |
| T | TE | TE32 | Lake Boudreaux Basin Freshwater Introduction and Hydrologic Management | Freshwater Diversion/Hydrologic Restoration | 6 | E&D | FWS | Paille | Libersat | Dearmond | Hubbell |
| T | TE | TE34 | Penchant Basin Natural Resources Plan, Increment 1 | Hydrologic Restoration | 6 | E&D | NRCS | Paul | Merhi | Babin | Folse |
| T | TE | TE37 | New Cut Dune and Marsh Restoration | Barrier Island/Marsh Creation | 9 | E&D | EPA | Crawford | Williams | Dearmond | West |
| T | TE | TE39 | South Lake De Cade Freshwater Introduction | Hydrologic Restoration | 9 | E&D | NRCS | Broussard | Merhi | Babin | Folse |
| T | TE | TE40 | Timbalier Island Dune and Marsh Restoration | Barrier Island/Marsh Creation | 9 | O&M | EPA | McQuiddy | Williams | Dearmond | Vacant |
| T | TE | TE41 | Mandalay Bank Protection Demonstration | Shoreline Protection | 9 | O&M | FWS | Paille | Libersat | Dearmond | Lear |
| T | TE | TE43 | GIWW Bank Restoration of Critical Areas in Terrebonne | Shoreline Protection | 10 | E&D | NRCS | Tarver | Merhi | Babin | Smith |
| T | TE | TE44 | North Lake Mechant Landbridge Restoration | Shoreline Protection/Marsh Creation | 10 | E&D | FWS | Paille | Libersat | Dearmond | Vacant |

| Field Office | Basin | Project No. | Project Name | Type of Project | PPL-Progr | Project Phase | Federal Sponsor | Federal Project Manager | DNR Phase 1 manager | Con, O&M Manager | Monitoring Manager |
|--------------|-------|-------------|---|---|-----------|---------------|-----------------|-------------------------|---------------------|------------------|--------------------|
| T | TE | TE45 | Terrebonne Bay Shore Protection Demonstration | Shoreline Protection | 10 | E&D | FWS | Paille | Libersat | Dearmond | Folse |
| T | TE | TE46 | West Lake Boudreaux Shoreline Protection and Marsh Creation | Shoreline Protection | 11 | E&D | FWS | Dubois | Libersat | Dearmond | Lear |
| T | TE | TE47 | Ship Shoal: Whiskey West Flank Restoration | Barrier Island | 11 | E&D | EPA | Crawford | Williams | Dearmond | West |
| T | TE | TE48 | Raccoon Island Shoreline Protection/Marsh Creation | Shoreline Protection | 11 | E&D | NRCS | Broussard | Merhi | Babin | Folse |
| T | TE | TE49 | Avoca Island Diversion and Land Building | | 12 | E&D | COE | Miller | Duffy | Dearmond | West |
| T | TE | TE50 | Whiskey Island Back Barrier Marsh Creation | Barrier Island | 13 | E&D | EPA | Crawford | Williams | Dearmond | West |
| L | TV | TV03 | Vermilion River Cutoff Bank Protection | Shoreline Protection | 1 | O&M | COE | Monnerjahn | Landry | Juneau | Thibodeaux |
| L | TV | TV04 | Cote Blanche Hydrologic Restoration | Hydrologic Restoration | 3 | O&M | NRCS | Steyer | Landry | Juneau | Thibodeaux |
| L | TV | TV06 | Marsh Island Control Structures | Marsh Management | ST | O&M | State | N/A | Landry | Juneau | Thibodeaux |
| L | TV | TV09 | Boston Canal/Vermilion Bay Bank Protection | Shoreline Protection | 2 | O&M | NRCS | Paul | Landry | Guidry | Thibodeaux |
| L | TV | TV11 | Freshwater Bayou Shoreline Protection | Shoreline Protection | ST | O&M | State | N/A | Landry | Guidry | Miller |
| L | TV | TV11B | Freshwater Bayou Bank Stabilization | Shoreline Protection/Hydrologic Restoration | 9 | E&D | COE | Monnerjahn | Duffy | Guidry | Phillips |
| L | TV | TV12 | Little Vermilion Bay Sediment Trapping | Sediment and Nutrient Trapping | 5 | O&M | NMFS | Foret | Landry | Landry | Castellanos |
| L | TV | TV13a | Oaks/Avery Canal Hydrologic Restoration, Increment 1 | Hydrologic Restoration | 6 | O&M | NRCS | Broussard | Landry | Juneau | Barrilleaux |
| L | TV | TV13b | Oaks/Avery Structures | Shoreline Protection | ST | O&M | State | N/A | Landry | Juneau | Barrilleaux |
| L | TV | TV14 | Marsh Island Hydrologic Restoration | Hydrologic Restoration | 6 | O&M | COE | Monnerjahn | Landry | Juneau | Barrilleaux |
| L | TV | TV15 | Sediment Trapping at "The Jaws" | Sediment and Nutrient Trapping | 6 | O&M | NMFS | Foret | Landry | Aucoin | Barrilleaux |
| L | TV | TV16 | Cheniere Au Tigre Sediment Trapping Demonstration | Sediment and Nutrient Trapping/Shoreline Protection | 6 | DEMO | NRCS | Tullos | Landry | Aucoin | Barrilleaux |
| L | TV | TV17 | Lake Portage Land Bridge | Shoreline Protection | 8 | O&M | NRCS | Abshire | Pontiff | Pontiff | Barrilleaux |
| L | TV | TV18 | Four Mile Canal Terracing and Sediment Trapping | Sediment and Nutrient Trapping | 9 | O&M | NMFS | Foret | Grandy | Juneau | Thibodeaux |
| L | TV | TV19 | Weeks Bay Marsh Creation and Shore Protection/Commercial Canal Freshwater Redirection | Shoreline Protection | 9 | E&D | COE | Rauber | Duffy | Aucoin | Sharp |

Post Gustav / Ike Hurricane Damage Assessment - General Summary Sheet

| | Field Office | Project No. | Project Name | Type of Project | Parish | PPL-Progr | Project Phase | Federal Sponsor | Completed Inspection Date | Proposed Inspection Date | Results of Inspection | FEMA Claim |
|----|--------------|-------------|---|---|-----------|-----------|---------------|-----------------|---------------------------|--------------------------|-----------------------|------------|
| 2 | L | AT04 | Castille Pass Channel Sediment Delivery | Marsh Creation/Sediment and Nutrient Trapping | St. Mary | 9 | E&D | NMFS | | 10/28/2008 | | |
| 3 | L | CAT01 | Cheniere Au Tigre Shoreline Protection | Shoreline Protection | Vermilion | ST | C | State | | | Completed by others | |
| 4 | L | CS01 | Holly Beach Breakwaters | Shoreline Protection | Cameron | ST | O&M | State | | 10/14/2008 | | |
| 5 | L | CS02 | Rycade Canal Marsh Management | Marsh Management | Cameron | ST | O&M | State | | 10/14/2008 | | |
| 6 | L | CS04A | Cameron-Creole Maintenance | Hydrologic Restoration | Cameron | 3 | O&M | NRCS | 10/23/2008 | | | |
| 7 | L | CS09 | Brown Lake Hydrologic Restoration | Hydrologic Restoration | Cameron | 2 | E&D | NRCS | | 11/4/2008 | | |
| 8 | L | CS11B | Sweet Lake/Willow Lake Hydrologic Restoration | Hydrologic Restoration | Cameron | 5 | O&M | NRCS | | 10/1/2008 | | |
| 9 | L | CS17 | Cameron Creole Plugs | Hydrologic Restoration | Cameron | 1 | O&M/C | FWS | 10/23/2008 | | | |
| 10 | L | CS18 | Sabine National Wildlife Refuge Erosion Protection | Shoreline Protection | Cameron | 1 | O&M | FWS | | 10/22/2008 | | |
| 11 | L | CS19 | West Hackberry Vegetative Planting Demonstration | Vegetation Planting | Cameron | 1 | DEMO | NRCS | | | N/A | |
| 12 | L | CS20 | East Mud Lake Marsh Management | Marsh Management | Cameron | 2 | O&M | NRCS | | 10/16/2008 | | |
| 13 | L | CS21 | Highway 384 Hydrologic Restoration | Hydrologic Restoration | Cameron | 2 | O&M | NRCS | | 10/14/2008 | | |
| 14 | L | CS22 | Clear Marais Bank Protection | Shoreline Protection | Calcasieu | 2 | O&M | COE | | 10/2/2008 | | |
| 15 | L | CS23 | Replace Sabine Refuge Water Control Structures at Headquarters Canal, West Cove Canal, and Hog Island Gully | Marsh Management | Cameron | 3 | O&M | FWS | | 10/20/2008 | | |
| 16 | L | CS24 | Perry Ridge Shore Protection | Shoreline Protection | Calcasieu | 4 | O&M | NRCS | | 10/2/2008 | | |
| 17 | L | CS25 | Plowed Terraces Demonstration | Sediment and Nutrient Trapping | Cameron | 4 | DEMO | NRCS | | | N/A | |
| 18 | L | CS27 | Black Bayou Hydrologic Restoration | Hydrologic Restoration | Cameron | 6 | O&M | NMFS | | 10/2/2008 | | |
| 19 | L | CS28 | Sabine Refuge Marsh Creation, Increment 1 | Marsh Creation | Cameron | 8 | O&M | COE | | 10/30/2008 | | |
| 20 | L | CS29 | Black Bayou Culverts Hydrologic Restoration | Hydrologic Restoration | Cameron | 9 | C | NRCS | | 10/14/2008 | | |
| 21 | L | CS30 | GIWW - Perry Ridge West Bank Stabilization | Shoreline Protection | Calcasieu | 9 | O&M | NRCS | | 10/2/2008 | | |
| 22 | L | CS31 | Holly Beach Sand Management | Marsh Creation | Cameron | 11 | O&M | NRCS | | 10/14/2008 | | |
| 23 | L | CS32 | East Sabine Lake Hydrologic Restoration | Hydrologic Restoration | Cameron | 10 | E&D, C | FWS | | 10/22/2008 | | |
| 24 | L | CS4A1 | Cameron Creole Automation | Hydrologic Restoration | Cameron | ST | O&M | State | | | N/A | |
| 25 | L | CSXX | Sabine Terraces | Sediment and Nutrient Trapping | Cameron | ST | O&M | State | | | | |
| 26 | L | LA06 | Shoreline Protection Foundation Improvements Demonstration | Shoreline Protection | Vermilion | 13 | C | COE | | | N/A | |

| | Field Office | Project No. | Project Name | Type of Project | Parish | PPL-Progr | Project Phase | Federal Sponsor | Completed Inspection Date | Proposed Inspection Date | Results of Inspection | FEMA Claim |
|----|--------------|-------------|---|---|------------------|-----------|---------------|-----------------|---------------------------|--------------------------|-----------------------|------------|
| 27 | L | ME01 | Pecan Island Structure | Freshwater Diversion | Vermilion | ST | O&M | State | | 10/7/2008 | | |
| 28 | L | ME04 | Freshwater Bayou Wetland (Phases 1 & 2) | Shoreline Protection/Hydrologic Restoration | Vermilion | 2 | O&M | NRCS | | 10/9/2008 | | |
| 29 | L | ME09 | Cameron Prairie National Wildlife Refuge Shoreline Protection | Shoreline Protection | Cameron | 1 | O&M | FWS | | 10/1/2008 | | |
| 30 | L | ME11 | Humble Canal Hydrologic Restoration | Hydrologic Restoration | Vermilion | 8 | O&M | NRCS | | 10/1/2008 | | |
| 31 | L | ME13 | Freshwater Bayou Bank Stabilization | Shoreline Protection | Vermilion | 5 | O&M | NRCS | | 10/9/2008 | | |
| 32 | L | ME14 | Pecan Island Terracing | Sediment and Nutrient Trapping | Vermilion | 7 | O&M | NMFS | | 10/7/2008 | | |
| 33 | L | ME16 | Freshwater Introduction South of Highway 82 | Hydrologic Restoration/Marsh Creation | Vermilion | 9 | C | FWS | | 10/2/2008 | | |
| 34 | L | ME17 | Little Pecan Bayou Hydrologic Restoration | Hydrologic Restoration | Cameron | 9 | E&D | NRCS | | ? | | |
| 35 | L | ME18 | Rockefeller Refuge Gulf Shoreline Stabilization | Shoreline Protection | Cameron | 10 | E&D | NMFS | | ? | | |
| 36 | L | ME19 | Grand-White Lakes Landbridge Protection | Shoreline Protection | Cameron | 10 | O&M | FWS | | 10/15/2008 | | |
| 37 | L | ME20 | South Grand Chenier Hydrologic Restoration Project | Hydrologic Restoration | Cameron | 11 | E&D | FWS | | ? | | |
| 38 | L | ME21 | Grand Lake Shoreline Protection | Shoreline Protection | Cameron | 11 | E&D | COE | | 10/15/2008 | | |
| 39 | L | ME22 | South White Lake Shoreline Protection | Shoreline Protection | Vermilion | 12 | C | COE | | 10/28/2008 | | |
| 40 | L | TV03 | Vermilion River Cutoff Bank Protection | Shoreline Protection | Vermilion | 1 | O&M | COE | | 10/9/2008 | | |
| 41 | L | TV04 | Cote Blanche Hydrologic Restoration | Hydrologic Restoration | St. Mary | 3 | O&M | NRCS | | 9/30/2008 | | |
| 42 | L | TV06 | Marsh Island Control Structures | Marsh Management | Iberia | ST | O&M | State | | | N/A | |
| 43 | L | TV09 | Boston Canal/Vermilion Bay Bank Protection | Shoreline Protection | Vermilion | 2 | O&M | NRCS | | 10/23/2008 | | |
| 44 | L | TV11 | Freshwater Bayou Shoreline Protection | Shoreline Protection | Vermilion | ST | O&M | State | | 10/9/2008 | | |
| 45 | L | TV11B | Freshwater Bayou Bank Stabilization | Shoreline Protection/Hydrologic Restoration | Vermilion | 9 | E&D | COE | | 10/9/2008 | | |
| 46 | L | TV12 | Little Vermilion Bay Sediment Trapping | Sediment and Nutrient Trapping | Vermilion | 5 | O&M | NMFS | | 10/9/2008 | | |
| 47 | L | TV13a | Oaks/Avery Canal Hydrologic Restoration, Increment 1 | Hydrologic Restoration | Vermilion | 6 | O&M | NRCS | | 10/23/2008 | | |
| 48 | L | TV13b | Oaks/Avery Structures | Hydrologic Restoration | Vermilion | ST | O&M | State | | 10/23/2008 | | |
| 49 | L | TV14 | Marsh Island Hydrologic Restoration | Hydrologic Restoration | Iberia/Vermilion | 6 | O&M | COE | | | completed by others | |
| 50 | L | TV15 | Sediment Trapping at "The Jaws" | Sediment and Nutrient Trapping | St. Mary | 6 | O&M | NMFS | | 9/30/2008 | | |
| 51 | L | TV16 | Cheniere Au Tigre Sediment Trapping Demonstration | Sediment and Nutrient Trapping/Shoreline Protection | Vermilion | 6 | DEMO | NRCS | | | completed by others | |
| 52 | L | TV17 | Lake Portage Land Bridge | Shoreline Protection | Vermilion | 8 | O&M | NRCS | | | completed by others | |

| | Field Office | Project No. | Project Name | Type of Project | Parish | PPL-Progr | Project Phase | Federal Sponsor | Completed Inspection Date | Proposed Inspection Date | Results of Inspection | FEMA Claim |
|----|--------------|-------------|---|---|---------------------------------|-----------|---------------|-----------------|---------------------------|--------------------------|-----------------------|------------|
| 53 | L | TV18 | Four Mile Canal Terracing and Sediment Trapping | Sediment and Nutrient Trapping | Vermilion | 9 | O&M | NMFS | | 10/9/2008 | | |
| 54 | L | TV19 | Weeks Bay Marsh Creation and Shore Protection/Commercial Canal Freshwater Redirection | Shoreline Protection | Iberia | 9 | E&D | COE | | | N/A | |
| 55 | L | TV20 | Bayou Sale Shoreline Protection | Shoreline Protection | St. Mary | 13 | E&D | NRCS | | ? | | |
| 56 | L | TV21 | East Marsh Island Marsh Creation | Marsh Creation | Iberia | 14 | E&D | EPA/NRCS | | ? | | |
| 57 | L | TVXX | Quintana Canal | Shoreline Protection | St. Mary | ST | O&M | State | | 11/4/2008 | | |
| 58 | NO | BA01 | Davis Pond Freshwater Diversion | Freshwater Diversion | St. Charles | WRDA | O&M | COE | | 9/25/2008 | flyover | |
| 59 | NO | BA03 | Naomi Diversion | Freshwater Diversion | Plaquemines | ST | O&M | State | | 9/30/2008 | | |
| 60 | NO | BA03c | Naomi Outfall Management | Outfall Management | Plaquemines | 5 | O&M | NRCS | | 9/30/2008 | | |
| 61 | NO | BA04 | West Point a la Hache Freshwater Diversion | Freshwater Diversion | Plaquemines | ST | O&M | State | | 9/22/2008 | Parish Responsibility | |
| 62 | NO | BA04c | West Pointe a la Hache Outfall Management | Outfall Management | Plaquemines | 3 | E&D | NRCS | | | N/A | |
| 63 | NO | BA16 | Bayou Segnette | Shoreline Protection | Jefferson | ST | O&M | State | | 9/30/2008 | | |
| 64 | NO | BA20 | Jonathan Davis Wetland Protection | Hydrologic Restoration/Shoreline Protection | Jefferson | 2 | O&M | NRCS | | 9/30/2008 | | |
| 65 | NO | BA23 | Barataria Bay Waterway West Side Shoreline Protection | Shoreline Protection | Jefferson | 4 | O&M | NRCS | | 9/30/2008 | | |
| 66 | NO | BA26 | Barataria Bay Waterway East Side Shoreline Protection | Shoreline Protection | Orleans/Jefferson | 6 | O&M | NRCS | | 9/30/2008 | | |
| 67 | NO | BA31 | Delta Building Diversion South of Empire | Freshwater Diversion/Sediment Diversion | Plaquemines | 9 | E&D | COE | | | N/A | |
| 68 | NO | BA33 | Delta Building Diversion at Myrtle Grove | Freshwater Diversion/Sediment Diversion | Plaquemines/Jefferson/Lafourche | 10 | E&D | COE | | | N/A | |
| 69 | NO | BA34 | Mississippi River Reintroduction Into Northwest Barataria Basin | Freshwater Diversion | St. John/Lafourche | 10 | E&D | EPA | | | N/A | |
| 70 | NO | BA35 | Pass Chalard to Grand Bayou Pass Barrier Shoreline Restoration | Shoreline Protection | Plaquemines | 11 | C | NMFS | | 9/25/2008 | | |
| 71 | NO | BA36 | Dedicated Dredging on the Barataria Basin Landbridge | Marsh Creation | Jefferson | 11 | C | FWS | | ? | | |
| 72 | NO | BA38 | Pelican Island and Pass La Mer to Chalard Pass Restoration | Barrier Island | Plaquemines | 11 | C | NMFS | | 9/25/2008 | | |
| 73 | NO | BA39 | Mississippi River Sediment Delivery System | Sediment Delivery | Jefferson | 12 | E&D | EPA | | | N/A | |
| 74 | NO | BA40 | Riverine Sand Mining/Scofield Island Restoration | Barrier Island/Marsh Creation | Plaquemines | 14 | E&D | NMFS | | 9/25/2008 | | |
| 75 | NO | BA41 | South Shore of the Pen Shoreline Protection and Marsh Creation | Shoreline Protection/Marsh Creation | Jefferson | 14 | E&D | NRCS | | ? | | |
| 76 | NO | BS03a | Caernarvon Diversion Outfall Management | Outfall Management | Plaquemines | 2 | O&M | NRCS | | 9/25/2008 | flyover | |
| 77 | NO | BS08 | Caernarvon | Freshwater Introduction | Plaquemines | WRDA | O&M | COE | | 9/22/2008 | | |
| 78 | NO | BS10 | Delta Building Diversion North of Fort St. Philip | Freshwater Diversion/Sediment Diversion | Plaquemines | 10 | E&D | COE | | 9/25/2008 | flyover | |

| | Field Office | Project No. | Project Name | Type of Project | Parish | PPL-Progr | Project Phase | Federal Sponsor | Completed Inspection Date | Proposed Inspection Date | Results of Inspection | FEMA Claim |
|-----|--------------|-------------|---|---|-------------|-----------|---------------|-----------------|---------------------------|--------------------------|----------------------------|------------|
| 79 | NO | BS11 | Delta Management at Fort St. Philip | Outfall Management | Plaquemines | 10 | E&D | FWS | | | flyover | |
| 80 | NO | BS12 | White's Ditch Resurrection & Outfall Management | Freshwater Diversion/Outfall Management | Plaquemines | 14 | E&D | NRCS | | ? | | |
| 81 | NO | LA01(1) | Dedicated Dredging Program - Pass A Loutre Site | Marsh Creation | Plaquemines | ST | C | State | | | flyover | |
| 82 | NO | MR03 | West Bay Sediment Diversion | Sediment Diversion | Plaquemines | 1 | O&M | COE | | | flyover | |
| 83 | NO | MR06 | Channel Armor Gap Crevasse | Sediment Diversion | Plaquemines | 3 | O&M | COE | | | flyover | |
| 84 | NO | MR09 | Delta Wide Crevasses | Sediment Diversion | Plaquemines | 6 | O&M | NMFS | | | flyover | |
| 85 | NO | MR10 | Dustpan Maintenance Dredging Operations for Marsh Creation in the Mississippi River Delta Demonstration | Beneficial Use of Dredged Material | Plaquemines | 6 | DEMO | COE | | | N/A | |
| 86 | NO | MR11 | Periodic Introduction of Sediment and Nutrients at Selected Diversion Sites Demonstration | Freshwater Diversion | Plaquemines | 9 | E&D | COE | | | N/A | |
| 87 | NO | MR12 | Mississippi River Sediment Trap | Sediment Diversion | Plaquemines | 9 | E&D | COE | | | N/A | |
| 88 | NO | MR13 | Benneys Bay Diversion | Freshwater Diversion | Plaquemines | 10 | E&D | COE | | | N/A | |
| 89 | NO | MR14 | Spanish Pass Diversion | Freshwater Diversion | Plaquemines | 13 | E&D | COE | | ? | | |
| 90 | NO | PO01 | Violet Siphon | Freshwater Diversion | St. Bernard | ST | O&M | State | | | Parish Responsibility | |
| 91 | NO | PO03b | Labranche Shoreline Protection | Shoreline Protection | St. Charles | ST | O&M | State | | ? | | |
| 92 | NO | PO06 | Fritchie Marsh Restoration | Hydrologic Restoration | St. Tammany | 2 | O&M | NRCS | | 9/29/2008 | | |
| 93 | NO | PO10 | Turtle Cove | Shoreline Protection | Tangipahoa | ST | O&M | State | | 10/1/2008 | | |
| 94 | NO | PO16 | Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 1 | Hydrologic Restoration | Orleans | 1 | O&M | FWS | | | USFWS will inspect /report | |
| 95 | NO | PO17 | Bayou LaBranche Wetland Creation | Beneficial Use of Dredged Material | St. Charles | 1 | O&M | COE | | 10/1/2008 | | |
| 96 | NO | PO18 | Bayou Sauvage National Wildlife Refuge Hydrologic Restoration, Phase 2 | Hydrologic Restoration | Orleans | 2 | O&M | FWS | | | USFWS will inspect /report | |
| 97 | NO | PO19 | Mississippi River Gulf Outlet (MRGO) Disposal Area Marsh Protection | Marsh Management | St. Bernard | 3 | O&M | COE | | | flyover | |
| 98 | NO | PO22 | Bayou Chevee Shoreline Protection | Shoreline Protection | Orleans | 5 | O&M | COE | | 9/29/2008 | | |
| 99 | NO | PO24 | Hopedale Hydrologic Restoration | Hydrologic Restoration | St. Bernard | 8 | O&M | NMFS | | 10/2/2008 | | |
| 100 | NO | PO26 | Opportunistic Use of the Bonnet Carre' Spillway | Freshwater Diversion | St. Charles | 9 | E&D | COE | | | N/A | |
| 101 | NO | PO27 | Chandeleur Islands Marsh Restoration | Vegetation Planting | St. Bernard | 9 | O&M | NMFS | | | N/A | |
| 102 | NO | PO29 | River Reintroduction into Maurepas Swamp | Freshwater Diversion | St. John | 11 | E&D | EPA | | ? | | |
| 103 | NO | PO30 | Lake Borgne Shoreline Protection | Shoreline Protection/Marsh Creation | St. Bernard | 10 | E&D | EPA | | 9/17/2008 | | |
| 104 | NO | PO31 | Lake Borgne Shoreline Protection at Bayou Dupre | Shoreline Protection/Marsh Creation | St. Bernard | 11 | E&D | EPA | | 9/17/2008 | | |

| | Field Office | Project No. | Project Name | Type of Project | Parish | PPL-Progr | Project Phase | Federal Sponsor | Completed Inspection Date | Proposed Inspection Date | Results of Inspection | FEMA Claim |
|-----|--------------|-------------|--|--|---|-----------|---------------|-----------------|---------------------------|--------------------------|-----------------------|------------|
| 105 | NO | PO32 | Lake Borgne and MRGO Shoreline Protection | Shoreline Protection | St. Bernard | 12 | E&D | COE | | 10/6/2008 | | |
| 106 | NO | PO33 | Goose Point/Point Platte Marsh Creation | Marsh Creation | St. Tammany | 13 | E&D | FWS | | 10/3/2008 | | |
| 107 | NO | WIR | Wine Island Restoration | | | ST | O&M | State | | ? | | |
| 108 | T | AT02 | Atchafalaya Sediment Delivery | Sediment Diversion/Beneficial Use of Dredged Material/Marsh Creation | St. Mary | 2 | O&M | NMFS | | 10/28/2008 | flyover | |
| 109 | T | AT03 | Big Island Mining | Sediment Diversion/Beneficial Use of Dredged Material/Marsh Creation | St. Mary | 2 | O&M | NMFS | | 10/28/2008 | flyover | |
| 110 | T | BA02 | GIWW (Gulf Intracoastal Waterway) to Clovelly Hydrologic Restoration | Hydrologic Restoration | Lafourche | 1 | O&M | NRCS | | 9/25/2008 | | |
| 111 | T | BA15 | Lake Salvador Shore Protection Demonstration | Shoreline Protection | St. Charles | 3 | O&M | NMFS | | 10/3/2008 | | |
| 112 | T | BA-15x1 | Lake Salvador Mitigation | Shoreline Protection | St. Charles | ST | O&M | State | | 10/3/2008 | | |
| 113 | T | BA19 | Barataria Bay Waterway Wetland Restoration | Marsh Creation | Jefferson | 1 | O&M | COE | | ? | | |
| 114 | T | BA25b | Mississippi River Reintroduction Into Bayou Lafourche | Freshwater Introduction | Lafourche/Ascension/Assumption | 11 | E&D | EPA | | ? | | |
| 115 | T | BA27 | Barataria Basin Landbridge Shoreline Protection, Phases 1 and 2 | Shoreline Protection | Jefferson/Lafourche | 7 | E&D, C, O&M | NMFS | | 10/1/2008 | | |
| 116 | T | BA27c | Barataria Basin Landbridge Shoreline Protection, Phase 3 | Shoreline Protection | Jefferson/Lafourche | 9 | E&D, C, O&M | NRCS | | 10/1/2008 | | |
| 117 | T | BA27d | Barataria Basin Landbridge Shoreline Protection Phase 4 | Shoreline Protection | Jefferson/Lafourche | 11 | C | NRCS | | 10/1/2008 | | |
| 118 | T | BA28 | Vegetative Plantings of a Dredged Material Disposal Site on Grand Terre Island | Vegetation Planting | Jefferson | 7 | O&M | NMFS | | ? | | |
| 119 | T | BA30 | East/West Grand Terre Islands Restoration | Barrier Island | Jefferson | 9 | E&D | NMFS | | ? | | |
| 120 | T | BA37 | Little Lake Shoreline Protection/ Dedicated Dredging Near Round Lake | Shoreline Protection | Lafourche | 11 | C | NMFS | | 10/8/2008 | | |
| 121 | T | LA01(2) | Dedicated Dredging Program - Terrebonne Parish School Board Site | Marsh Creation | Terrebonne | ST | C | State | | 10/7/2008 | | |
| 122 | T | LA05 | Floating Marsh Creation Demonstration Project | Marsh Creation | Jeff.,Laf.,Plaq.,St.Chs.,St John.,St. Mary.,Terr. | 12 | E&D | NRCS | | ? | | |
| 123 | T | TE01 | Montegut Wetlands | Marsh Management | Terrebonne | NC | O&M | State | | 10/23/2008 | | |
| 124 | T | TE02 | Falgout Canal Wetlands | Marsh Management | Terrebonne | ST | O&M | State | | ? | | |
| 125 | T | TE03 | Bayou LaCache Wetlands | Marsh Management | Terrebonne | ST | O&M | State | | ? | | |
| 126 | T | TE07 | Lashbrook | Shoreline Protection | Terrebonne | ST | C | State | | 10/22/2008 | | |
| 127 | T | TE10 | Grand Bayou/GIWW Freshwater Diversion | Freshwater Introduction | Lafourche | 5 | E&D | FWS | | ? | | |
| 128 | T | TE17 | Falgout Canal Planting Demonstration | Veg. Planting | Terrebonne | 1 | DEMO | NRCS | | | N/A | |
| 129 | T | TE20 | Isles Dernieres Restoration East Island | Barrier Island | Terrebonne | 1 | O&M | EPA | | 10/16/2008 | flyover | |
| 130 | T | TE22 | Point Au Fer Canal Plugs | Shoreline Protection/Hydrologic Restoration | Terrebonne | 2 | O&M | NMFS | | 10/29/2008 | flyover | |

| | Field Office | Project No. | Project Name | Type of Project | Parish | PPL-Progr | Project Phase | Federal Sponsor | Completed Inspection Date | Proposed Inspection Date | Results of Inspection | FEMA Claim |
|------|--------------|-------------|---|---|----------------------|-----------|---------------|-----------------|---------------------------|--------------------------|-----------------------|------------|
| 131 | T | TE23 | West Belle Pass Headland Restoration | Beneficial Use of Dredged Material | Lafourche | 2 | O&M | COE | | 10/30/2008 | flyover | |
| 132 | T | TE24 | Isles Dernieres Restoration Trinity Island | Barrier Island | Terrebonne | 2 | O&M | EPA | | 10/16/2008 | flyover | |
| 133 | T | TE25 | East Timbalier Island Sediment Restoration, Phase 1 | Barrier Island | Lafourche | 3 | O&M | NMFS | | | flyover | |
| 134 | T | TE26 | Lake Chapeau Sediment Input and Hydrologic Restoration, Point Au Fer Island | Hydrologic Restoration/Marsh Creation | Terrebonne | 3 | O&M | NMFS | | 9/24/2008 | | |
| 135 | T | TE27 | Whiskey Island Restoration | Barrier Island | Lafourche | 3 | O&M | EPA | | 10/15/2008 | flyover | |
| 136 | T | TE28 | Brady Canal Hydrologic Restoration | Hydrologic Restoration | Terrebonne | 3 | O&M | NRCS | | 9/30/2008 | | |
| 137 | T | TE29 | Raccoon Island Breakwaters Demonstration | Barrier Island | Terrebonne | 5 | DEMO | NRCS | | 10/16/2008 | flyover | |
| 138 | T | TE30 | East Timbalier Island Sediment Restoration, Phase 2 | Barrier Island | Lafourche | 4 | O&M | NMFS | | | flyover | |
| 139 | T | TE32 | Lake Boudreaux Basin Freshwater Introduction and Hydrologic Management | Freshwater Diversion/Hydrologic Restoration | Terrebonne | 6 | E&D | FWS | | ? | | |
| 140 | T | TE34 | Penchant Basin Natural Resources Plan, Increment 1 | Hydrologic Restoration | Terrebonne | 6 | E&D | NRCS | | ? | | |
| 141 | T | TE37 | New Cut Dune and Marsh Restoration | Barrier Island/Marsh Creation | Terrebonne | 9 | E&D | EPA | | | flyover | |
| 142 | T | TE39 | South Lake De Cade Freshwater Introduction | Hydrologic Restoration | Terrebonne | 9 | E&D | NRCS | | ? | | |
| 143 | T | TE40 | Timbalier Island Dune and Marsh Restoration | Barrier Island/Marsh Creation | Terrebonne | 9 | O&M | EPA | | | flyover | |
| 144 | T | TE41 | Mandalay Bank Protection Demonstration | Shoreline Protection | Terrebonne | 9 | O&M | FWS | | ? | | |
| 145 | T | TE42 | Atchafalaya Water to Central Lafourche | Freshwater Introduction | Various | | E&D | FWS | | ? | | |
| 146 | T | TE43 | GIWW Bank Restoration of Critical Areas in Terrebonne | Shoreline Protection | Terrebonne/Lafourche | 10 | E&D | NRCS | | ? | | |
| 147 | T | TE44 | North Lake Mechant Landbridge Restoration | Shoreline Protection/Marsh Creation | Terrebonne | 10 | E&D | FWS | | ? | | |
| 148 | T | TE45 | Terrebonne Bay Shore Protection Demonstration | Shoreline Protection | Terrebonne | 10 | E&D | FWS | | 10/9/2008 | | |
| 149 | T | TE46 | West Lake Boudreaux Shoreline Protection and Marsh Creation | Shoreline Protection | Terrebonne | 11 | E&D | FWS | | 10/23/2008 | | |
| 150 | T | TE47 | Ship Shoal: Whiskey West Flank Restoration | Barrier Island | Terrebonne | 11 | E&D | EPA | | | flyover | |
| 151 | T | TE48 | Raccoon Island Shoreline Protection/Marsh Creation | Shoreline Protection | Terrebonne | 11 | E&D | NRCS | | 10/16/2008 | flyover | |
| 151b | T | TE48b | Raccoon Isl SP/ Marsh creation Phase 2 | SP | Terrebonne | | | NRCS | | | | |
| 152 | T | TE49 | Avoca Island Diversion and Land Building | Freshwater Introduction | St. Mary | 12 | E&D | COE | | | | |
| 153 | T | TE50 | Whiskey Island Back Barrier Marsh Creation | Barrier Island | Terrebonne | 13 | E&D | EPA | | | | |
| 154 | T | TE52 | W Belle Pass Barr Headland Rest | Barrier Island | Terrebonne | | | | | | flyover | |

Hurricanes Gustav and Ike CWPPRA Ecological Data Acquisition

PROPOSAL

PROJECT TITLE: CWPPRA Assessment of Ecological Impacts Associated with Hurricanes Gustav and Ike

PROJECT LEAD(S): Greg Steyer (USGS, National Wetlands Research Center) and Ed Haywood (Louisiana DNR)

PARTNERS/USERS: CWPPRA Agencies and Natural Resource Community

FUNDING SOURCE: CWPPRA Monitoring Contingency Fund

BACKGROUND:

Similarly to the influences of Hurricanes Katrina and Rita in 2005, Hurricanes Gustav and Ike inundated much of the coast with storm surge in excess of 2 m, and in some areas as high as 4 m. Hurricanes can cause significant changes to coastal landscapes from physical scouring and displacement of marsh (Morgan et al. 1958, Barras 2007) and saltwater intrusion and flooding impacts to vegetation (Guntenspergen et al. 1995, Steyer et al. 2007). Marsh elevations are also affected both positively through sediment deposition (Turner et al. 2006) and negatively through erosion and compression of the marsh (Cahoon et al. 1995, Cahoon 2003).

CWPPRA projects are designed in many cases to reduce land loss rates, modify salinity and flooding regimes, influence sedimentation, and target specific marsh vegetation communities. These objectives can be set back by large disturbance events such as hurricanes; therefore, it is important to document impacts associated with the hurricanes to better attribute hurricane versus project affects.

TASKS:

(1) Conduct land:water analysis on CWPPRA projects using multitemporal Landsat TM analysis, where scale appropriate, following approach documented in (Barras 2006, 2007, 2008)

(2) Re-survey marsh elevation at approximately 50 CRMS stations within project and reference areas using the SET elevation benchmarks (Figure 1 attached). The measurements will be used to see if the marsh was compressed by the storm surge. Only one CRMS location will be surveyed within a selected project area. If marsh elevations are significantly different from pre-hurricane measurements, it may suggest that follow up surveys be conducted through CWPPRA O&M to re-establish elevations throughout the broader project area. The selected projects that have pre-hurricane SET installed and surveyed to marsh elevation are BA-04c, BS-03a, CS-17, CS-21, CS-23, CS-27, CS-29, CS-31, ME-04, ME-11, ME-16, ME-19, ME-20, PO-06, PO-22, PO-24, PO-33, PO-35, and TV-04.

(3) Take porewater salinity measurements in selected project areas. The large spatial area anticipated to have been influenced by saltwater storm surge suggests that this task could not be conducted efficiently via on-the-ground surveys. It is suggested that 5 days of helicopter time be committed to sample existing CWPPRA and CRMS sites established after the 2005 hurricanes (Figure 2 attached). Historic data exists for comparison as these sites were sampled as part of an LCA Science and Technology Program funded project in fall 2006 and fall 2007 for vegetation cover and species composition, and surface and porewater salinity, temperature, and pH. There would be 57 sites within CWPPRA projects and 18 sites outside of CWPPRA projects that would be sampled. The selected projects that have pre-hurricane vegetation and porewater salinity are AT-03, BA-03c, BA-04c, BA-20, BA-23, BA-24, BS-03a, CS-16, CS-17, CS-20, CS-23, CS-27, CS-31, CS-32, ME-04, ME-16, TE-26, TE-28, TE-39, TE-42, and TV-04. There should be discussion regarding the need to fund this survey again in fall 2009 if other funding sources are not available.

(4) Retrofit all hydrologic recorders (sondes) to elevate critical components (PVC extension) to approximately 10 feet NAVD88. Damaged sondes will be repaired and replaced as part of the CWPPRA monitoring program and will not be funded under this contingency request. There should be discussion regarding the retrofitting of a subset of CRMS stations across the coast with a storm-hardened platform and telemetry instrumentation.

FY09 TIMELINE & BUDGET ESTIMATE:

Task 1: January 2009 - \$20,000

Task 2: March 2009 - \$35,000

Task 3: March 2009 - \$40,000

Task 4: June 2009 - \$225,000

Total: \$320,000

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT
TECHNICAL COMMITTEE MEETING

October 9, 2008

STATUS OF BREAUX ACT PROGRAM FUNDS AND PROJECTS

Ms. Gay Browning will provide an overview of the status of CWPPRA accounts and available funding in the Planning and Construction Programs.

Potential Planning Program Funding Requests for 5 November 2008 Task Force

22-Sep-08

| | Total Request | TC? | Total Recommended |
|--|------------------------|-----|-----------------------|
| Funds Available: | | | |
| Funds Available, 22 Sep 2008 | \$1,185,632.00 | | \$1,185,632.00 |
| Anticipated Return of Funds | | | \$0.00 |
| FY09 Planning Program Funding (anticipated) | \$5,000,000.00 | | \$5,000,000.00 |
| Total | \$6,185,632.00 | | \$6,185,632.00 |
| Agenda Item 6: FY09 - Planning Budget (and Outreach Budget) Recommendation: | | | |
| P&E Recommended FY09 Planning Budget (Option 1) | \$4,930,325.00 | | \$0.00 |
| P&E Recommended FY09 Planning Budget [+ \$166,125] (Option 2) | \$5,096,450.00 | | \$0.00 |
| P&E Recommended FY09 Planning Budget [+ \$124,190] (Option 3) | \$5,054,515.00 | | \$0.00 |
| Outreach Committee Recommended FY09 Budget | \$516,310.00 | | \$516,310.00 |
| Total | \$15,597,600.00 | | \$516,310.00 |
| FY09 Planning Budget- Additional Requests Not on Agenda Recommendation: | | | |
| | | | \$0.00 |
| | | | \$0.00 |
| | | | \$0.00 |
| | | | \$0.00 |
| Total | \$0.00 | | \$0.00 |
| Total Remaining Funds in CWPPRA Planning Program | | | |
| | | | \$5,669,322.00 |

Agenda Item 6: FY09 Planning Budget

Option 1: Does not include any cost for Supplemental Task series 19500, programmatic re-evaluation of project cost estimates

Option 2: Includes cost for SPE 19520 and 19530, programmatic re-evaluation of project cost estimates for projects approved/funded for or completed construction

Option 3: Includes cost for SPE 19510, 9520 and 19530, programmatic re-evaluation of project cost estimates for projects in Phase I and projects approved/funded for or completed construction

| Potential Construction Program Funding Recommendation Requests for 5 November 2008 Task Force | | | | 22 Sep 2008 |
|---|------------------------|-----|----------------------|---------------------|
| | Total | TC? | Fed | Non-Fed |
| Funds Available: | | | | |
| Funds Available, 22 September 2008 | \$7,371,631 | | \$7,371,631 | |
| FY09 Construction Program Funding (anticipated) | \$93,315,824 | | \$79,318,450 | \$13,997,374 |
| Total | \$100,687,455 | | \$86,690,081 | \$13,997,374 |
| Agenda Item 7: COE Admin - PPL 9-17 October 2007 Cash Flow Requests Recommendation: | | | | |
| Multiple Projects | \$22,138 | | \$18,817 | \$3,321 |
| Total | \$22,138 | | \$18,817 | \$3,321 |
| Agenda Item 8a: O & M - October 2008 PPL 1-8 Cost Increase Requests Recommendation: | | | | |
| Cameron Creole Plugs (CS-17) [PPL 1] [USFWS] | \$95,191 | | \$80,912 | \$14,279 |
| Black Bayou Hydrologic Restoration (CS-27) [PPL 6] [NMFS] | \$124,359 | | \$111,923 | \$12,436 |
| Freshwater Bayou Wetland Protection (ME-04) [PPL 2] [NRCS] | \$98,860 | | \$84,031 | \$14,829 |
| Freshwater Bayou Bank Stabilization (ME-13) [PPL 5] [NRCS] | \$35,040 | | \$31,536 | \$3,504 |
| Total | \$353,450 | | \$308,402 | \$45,048 |
| Agenda Item 8b: O & M - October 2008 PPL 9-17 Incremental Requests Recommendation: | | | | |
| Coastwide Nutria Control Program (LA-03b) [PPL 11] [NRCS] | \$2,041,795 | | \$1,735,526 | \$306,269 |
| Little Lake Shoreline Prot & MC (BA-37) [PPL 11] [NMFS] | \$58,949 | | \$50,107 | \$8,842 |
| Total | \$2,100,744 | | \$1,785,632 | \$315,112 |
| Agenda Item 9: Monitoring - October 2008 PPL 9-17 Incremental Requests Recommendation: | | | | |
| Four Mile Canal Terracing & Sed Trapping (TV-18) [PPL 9] [NMFS] | \$24,511 | | \$20,834 | \$3,677 |
| Coastwide Nutria Control Program (LA-03b) [PPL 11] | \$121,732 | | \$103,472 | \$18,260 |
| CRMS - Wetlands | \$7,600,455 | | \$6,460,387 | \$1,140,068 |
| Total | \$7,746,698 | | \$6,584,693 | \$1,162,005 |
| Agenda Item 11: O&M - October 2008 West Bay Sediment Diversion Project (MR-03) Budget Increase & Funding Approval: | | | | |
| West Bay Sediment Diversion (MR-03) [PPL 1] [COE] | \$12,066,735 | | \$10,256,725 | \$1,810,010 |
| Total | \$12,066,735 | | \$10,256,725 | \$1,810,010 |
| Agenda Item 12: Const - October 2008 West Pointe a la Hache Outfall Mgmt Project (BA-4c) Budget Increase & Funding Approval: | | | | |
| West Pointe a la Hache Outfall Mgmt (BA-4c) [PPL 3] [NRCS] | \$1,003,672 | | \$853,121 | \$150,551 |
| Total | \$1,003,672 | | \$853,121 | \$150,551 |
| Agenda Item 13: October 2008 Project Deauthorization Requests Recommendation: | | | | |
| Periodic Introduction of Sediment & Nutrients Demo (MR-11) [PPL 9] [COE] | (\$1,471,000) | | (\$1,323,900) | (\$147,100) |
| Grand Bayou Hydrologic Restoration (TE-10) [PPL 5] [FWS] | (\$6,800,000) | | (\$6,120,000) | (\$680,000) |
| Total | (\$8,271,000) | | (\$7,443,900) | (\$827,100) |
| Agenda Item 13: October 2008 Project Transfer Request Recommendation: | | | | |
| East Grand Terre Island Restoration (BA-30) [PPL 9] [NMFS] {to CIAP} | (\$100,000) | | (\$85,000) | (\$15,000) |
| Delta Building Divr at Myrtle Grove (BA-33) [PPL 10] [COE] {to LCA} | | | \$0 | \$0 |
| Total | (\$100,000) | | (\$85,000) | (\$15,000) |
| Additional Items Not on Agenda Presented for Recommendation: | | | | |
| | | | \$0 | \$0 |
| | | | \$0 | \$0 |
| | | | \$0 | \$0 |
| | | | \$0 | \$0 |
| Total | \$0 | | \$0 | \$0 |
| Phase II Incr 1: January 2009 (Construction + 3 years OM&M) Requests Recommendation: [ESTIMATES TO BE UPDATED] | | | | |
| Barataria Basin LB, Phase 3, CU 7 (BA-27c) [PPL11] | \$25,891,625 | | \$22,007,881 | \$3,883,744 |
| Castille Pass (AT-04) [PPL 9] | \$18,478,789 | | \$15,706,971 | \$2,771,818 |
| East Marsh Island (TV-21) [PPL 14] | \$15,435,430 | | \$13,120,116 | \$2,315,315 |
| Freshwater Bayou Canal (TV-11b) [PPL 9] | \$25,676,625 | | \$21,825,131 | \$3,851,494 |
| GIWW Bank Restoration of Critical Areas in Terrebonne (Seg 4) (TE-43) [PPL 10] | \$10,934,322 | | \$9,294,174 | \$1,640,148 |
| Lake Borgne & MRGO SP (PO-32) [PPL 12] | \$31,924,591 | | \$27,135,902 | \$4,788,689 |
| Lake Hermitage Marsh Creation (BA-42) [PPL 15] | \$30,315,147 | | \$25,767,875 | \$4,547,272 |
| Rockefeller Refuge ME-18) [PPL 10] | \$182,101 | | \$154,786 | \$27,315 |
| Ship Shoal: Whiskey West Flank (TE-47) [PPL 11] | \$47,962,959 | | \$40,768,515 | \$7,194,444 |
| South Grand Chenier (ME-20) [PPL 11] | \$17,100,261 | | \$14,535,222 | \$2,565,039 |
| South Pecan Island (ME-23) [PPL 15] | \$2,726,720 | | \$2,317,712 | \$409,008 |
| Total | \$226,628,570 | | \$192,634,285 | \$33,994,286 |
| Proposed November 2008 Approvals | | | | |
| | \$0 | | | |
| Funds Available After October 2008 Approvals (to fund Phase II) | | | | |
| | \$100,687,455 | | | |
| Proposed January 2009 Phase II Approvals | | | | |
| | \$226,628,570 | | | |
| Oct 2008 and Jan 2009 Proposed Approvals Total | | | | |
| | \$226,628,570 | | | |
| Available Funds Surplus/(Shortage) | | | | |
| | (\$125,941,115) | | | |

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

TECHNICAL COMMITTEE MEETING

October 9, 2008

CWPPRA PROGRAM PROJECTED FUNDING CAPACITY

For Report/Decision:

Ms. Goodman will report on projections of the CWPPRA program funding capacity and implications for future priority project lists. The Technical Committee will consider recommendations to the Task Force on: 1) updating all PPL project cost estimates in order to better project the CWPPRA program funding capacity; and 2) options for future PPLs.

CWPPRA Future Program Potential

Technical Committee Meeting

October 9, 2008



Purpose

- Task Force directed the Technical Committee to analyze the future program capacity and provide options for how to use remaining funds in future planning efforts.
 - Discuss the potential future program capacity and implications on future PPL planning
 - Discuss recent construction cost increases and if current PPL project cost estimates should be updated
 - Discuss possible options for future PPLs

Overview

- CWPPRA authorized thru 2019
- CWPPRA funds appropriated through 2009
- Limit on future funds for “new work” (i.e, future PPLs, cost increases...)
- Need to be aware of:
 - Program Funding Limitations
 - Potential Project Funding Increases
 - Potential Project Funding Returns

Background

- Task Force concerned about program funding remaining for new projects.
- The Program could soon be O&M only.
- Need to ensure capacity to fulfill existing obligations
- The Task Force issued task to examine program capacity for new PPLs/projects, based on projected funds into the program and potential project cost increases.
- Preliminary estimate = up to 7 PPLs remaining, including PPL 18 (3-4 projects/PPL).

Current Projection

- Program will receive \$413.8 million for “new” work through 2019.
 - (Based on current project estimates and fully funding every project on PPLs 1-17).
 - “New” Work Includes
 - New PPL Projects (Phase I and Phase II costs)
 - Construction and O&M Cost Increases
 - Misc. Const Prog Activity Increases (e.g., Storm Recovery, CRMS)
 - Estimate does not consider
 - Potential deauthorizations/transfers Construction and O&M Cost Decreases

Things to Consider

- Since 2005 Hurricane Season, construction costs have increased significantly and continue to rise due to fuel costs increases.
- Older Economic Analyses do not capture these increases.

Indicators Used to Estimate Future Cost Increases:

- 10 PPL 9-15 projects with fully funded cost estimates updated in Nov 07, average cost increase \$7.4 Million
- 7 constructed Non-Cash Flow projects with O&M increases since 2005 hurricanes, average cost increase \$870 K (TOTAL \$6,082,324).

Future PPL Considerations

- Estimated future program capacity through 2019 for new projects is approximately \$681.9 M.
- The Task Force should consider what the “best use” would be for these limited remaining funds.
- The Task Force should ensure that sufficient funds are available for new construction approvals of existing PPL projects, and construction and O&M cost increases for projects already approved for or completed construction.

Options for Future PPLs

1. Continue annual planning cycle to develop new PPL projects with E&D starts for future construction until the projected “new project” end point is reached according to options (a), (b) and (c) below and thereafter, end annual planning cycle.
 - a. Approve up to 4 projects each PPL through 2015, or PPL 24
 - b. Approve fewer projects each PPL to “stretch” planning years
 - c. Skip a year between PPLs
2. Continue with annual planning cycle according to options above through program life to identify new Priority Projects and perform E&D only, but do not approve construction.

Options with Any Scenario

- Review existing projects and deauthorize projects that have low prioritization scores or cost effectiveness.
- Focus on new projects with implementation timelines of five years or less.
- Put funding cap on projects that can be implemented in program.
- Reduce O&M obligations by reviewing project performance and potentially discontinuing O&M for specific projects or features.

Options with Any Scenario, cont'd

- Collaborate with LCA, LACPR, CIAP or other programs to pool funding sources to share cost on efforts that benefit all programs, such as CRMS program, USGS land loss analyses, public education, watermarks...
- Reduce time and planning costs associated with annual PPL preparation and use funds for additional Phase 1 E&D starts each year.

P&E Considerations

- Refine existing PPL Project cost estimates in three groups according to project phase.
- Estimated cost to refine estimates = \$166,125
- Evaluating project estimates may not provide a more accurate account of program capacity.
- Preliminary analysis is sufficient to make future PPL decisions.
- Increased level of accuracy may not impact Task Force decisions on future PPL planning.
- Level of effort needed to evaluate project costs would be a significant burden on program resources, and value added would not be commensurate with cost.

Other Things to Consider

- How to address projects that are funded/approved for 20 year project life that extend beyond 2019.
- Assess additional long-term monitoring obligations, both project specific and CRMS.
- Annual Congressional PPL requirement

Coastal Wetlands Planning, Protection, and Restoration Act
Fiscal Year 2009 Planning Schedule and Budget
P&E Committee Recommendation, 28 August 2008
Tech Committee Recommendation,
Approved by Task Force,

\$1,185,632 = Available Surplus

| TASK | | | | | CWPRA COSTS | | | | | | | | | | | | |
|-----------------------------------|--------------|--|------------|----------|-----------------|------------------------|----------|----------|--------------|--------------------|--------------|--------------|--------------|---------------------------|------------------------|---------------|---------|
| Task Category | Task No. | Description | Duration | | Dept of Defense | Department of Interior | | | | State of Louisiana | | | EPA | Department of Agriculture | Department of Commerce | Other | Total |
| | | | Start Date | End Date | USACE | USFWS | NWRC | USGS BR | CPRA IT | LDWF | GOCA | EPA | NRCS | NMFS | | | |
| PPL 18 TASKS | | | | | | | | | | | | | | | | | |
| PL | 18600 | TF Selection and Funding of the 18th PPL (1 meeting) | 1/21/09 | 1/21/09 | 5,210 | 9,443 | | | | 3,702 | 1,502 | 1,600 | 3,582 | 6,092 | 9,465 | | 40,596 |
| PL | 18700 | PPL 18 Report Development | 2/18/09 | 7/31/09 | 45,632 | 2,621 | | | | 1,862 | | | 0 | 366 | 3,101 | | 53,582 |
| PL | 18800 | Corps Upward Submittal of the PPL 18 Report | 8/1/09 | 8/1/09 | 1,047 | | | | | | | | 0 | 0 | | | 1,047 |
| PL | 18900 | Corps Congressional Submission of the PPL 18 Report | 9/1/09 | 9/1/09 | 1,052 | | | | | | | | | 0 | | | 1,052 |
| FY09 Subtotal PPL 18 Tasks | | | | | 52,941 | 12,064 | 0 | 0 | 5,564 | 1,502 | 1,600 | 3,582 | 6,458 | 12,566 | 0 | 96,277 | |
| PPL 19 TASKS | | | | | | | | | | | | | | | | | |
| PL | 19200 | Development and Nomination of Projects | | | | | | | | | | | | | | | |
| PL | 19210 | DNR/USGS prepares base maps of project areas, location of completed projects and projected loss by 2050. Develop a comprehensive coastal LA map showing all water resource and restoration projects (C/WPPRA, state, WRDA projects, etc.) NWRC costs captured under SPE 18400. | 10/13/08 | 1/5/09 | 1,025 | | | | | 4,067 | | | 0 | 366 | 0 | | 5,458 |
| PL | 19220 | Sponsoring agencies prepare fact sheets (for projects and demos) and maps prior to and following RPT nomination meetings. | 10/13/08 | 2/15/09 | 58,883 | 32,765 | | | | 10,652 | | | 34,770 | 91,881 | 19,308 | | 248,259 |
| PL | 19230 | RPT's meet to formulate and combine projects. Each basin nominates no more than 2 project, with exception of 3 in Barataria and Terrebonne [20 nominees] and up to 6 demos (3 meetings) | 1/26/09 | 1/28/09 | 19,060 | 14,562 | | | | 10,548 | 4,506 | 3,000 | 6,828 | 11,320 | 13,438 | | 83,262 |
| PL | 19240 | RPT Voting meeting (20 nominees and up to 6 demos) | 2/18/09 | 2/18/09 | 5,247 | 2,621 | | | | 2,653 | 1,502 | 800 | 2,236 | 1,385 | 4,827 | | 21,271 |
| PL | 19300 | Ranking of Nominated Projects | | | | | | | | | | | | | | | |

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Approved by Task Force,

\$1,185,632 = Available Surplus

| TASK | | | | CWPRA COSTS | | | | | | | | | | | | | |
|-----------------------------------|--------------|---|------------|-------------|-----------------|------------------------|----------|----------|----------------|--------------------|---------------|----------------|----------------|---------------------------|------------------------|------------------|-------|
| Task Category | Task No. | Description | Duration | | Dept of Defense | Department of Interior | | | | State of Louisiana | | | EPA | Department of Agriculture | Department of Commerce | Other | Total |
| | | | Start Date | End Date | USACE | USFWS | NWRC | USGS BR | CPRA IT | LDWF | GOCA | EPA | NRCS | NMFS | | | |
| PL | 19320 | Engr Work Group prepares preliminary fully funded cost ranges for nominees. | 3/5/09 | 3/20/09 | 1,068 | 2,621 | | | 4,437 | | 1,500 | 4,228 | 6,747 | 4,827 | | 25,428 | |
| PL | 19330 | Environ/Engr Work Groups review nominees | 4/2/09 | 4/3/09 | 1,275 | 8,155 | | | 4,212 | 2,253 | 1,500 | 3,252 | 5,639 | 4,827 | | 31,113 | |
| PL | 19340 | WGs develop and P&E distributes project matrix | 4/1/09 | 4/1/09 | 1,348 | 2,330 | | | 2,658 | | | 2,820 | 198 | 4,827 | | 14,181 | |
| PL | 19350 | TC selection of PPL 19 candidates (10) and demo candidates (up to 3) | 4/15/09 | 4/15/09 | 2,348 | 2,621 | | | 2,847 | 2,253 | 500 | 3,216 | 3,270 | 4,827 | | 21,882 | |
| PL | 19400 | Analysis of Candidates | | | | | | | | | | | | | | | |
| PL | 19410 | Sponsoring agencies coordinate site visits for all projects | 5/1/09 | 7/15/09 | 35,449 | 21,479 | | | 17,391 | 13,518 | | 31,744 | 38,424 | 28,828 | | 186,833 | |
| PL | 19420 | Engr/Environ Work Group refine project features and determine boundaries | 5/1/09 | 9/30/09 | 8,132 | 16,382 | | | 9,321 | 13,518 | 2,000 | 5,204 | 7,716 | 10,337 | | 72,610 | |
| PL | 19430 | Sponsoring agencies develop project information for WVA; develop designs and cost estimates (projects and demos) | 5/1/09 | 9/30/09 | 36,504 | 38,225 | | | 37,992 | | | 39,984 | 59,116 | 51,640 | | 263,461 | |
| PL | 19440 | Environ/Engr Work Groups project-wetland benefits (with WVA) | 5/1/09 | 9/30/09 | 27,513 | 26,212 | | | 15,402 | 4,506 | 2,000 | 17,064 | 9,854 | 36,180 | | 138,731 | |
| PL | 19450 | Engr Work Group reviews/approves Ph 1 and Ph 2 cost estimates from sponsoring agencies, incl cost estimates for demos | 5/1/09 | 9/30/09 | 14,796 | 3,932 | | | 8,179 | | 1,000 | 10,358 | 4,058 | 14,481 | | 56,804 | |
| PL | 19460 | Economic Work Group reviews cost estimates, adds monitoring, O&M, etc., and develops annualized costs | 5/1/09 | 10/15/09 | 17,012 | 1,675 | | | 1,630 | | | 0 | 7,512 | 1,034 | | 28,863 | |
| PL | 19475 | Envr and Eng WG's prioritization of PPL 19 projects and demos | 5/1/09 | 10/15/09 | 4,208 | 8,155 | | | 5,870 | 2,253 | 1,000 | 4,228 | 8,116 | 4,827 | | 38,657 | |
| PL | 19480 | Prepare project information packages for P&E. | 5/1/09 | 11/10/09 | 7,534 | 7,645 | | | 2,483 | | | 1,952 | 178 | 4,827 | | 24,619 | |
| PL | 19485 | P&E holds 2 Public Meetings | 11/17/09 | 11/18/09 | 10,683 | 4,005 | | | 4,754 | 4,506 | 500 | 2,396 | 4,920 | 1,034 | | 32,798 | |
| PL | 19490 | TC Recommendation for Project Selection and Funding | 12/2/09 | 1/20/10 | 2,731 | 6,553 | | | 1,829 | 2,253 | 500 | 2,252 | 4,666 | 2,896 | | 23,680 | |
| FY09 Subtotal PPL 19 Tasks | | | | | 254,816 | 199,938 | 0 | 0 | 146,925 | 51,068 | 14,300 | 172,532 | 265,366 | 212,964 | 0 | 1,317,909 | |

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Fiscal Year 2009 Planning Schedule and Budget
P&E Committee Recommendation, 28 August 2008
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\$1,185,632 = Available Surplus

| TASK | | | | | CWPBRA COSTS | | | | | | | | | | | | |
|---|----------|--|------------|----------|------------------|------------------------|---------------|----------|----------------|--------------------|---------------|----------------|----------------|---------------------------|------------------------|------------------|-------|
| Task Category | Task No. | Description | Duration | | Dept of Defense | Department of Interior | | | | State of Louisiana | | | EPA | Department of Agriculture | Department of Commerce | Other | Total |
| | | | Start Date | End Date | USACE | USFWS | NWRC | USGS BR | CPRA IT | LDWF | GOCA | EPA | NRCS | NMFS | | | |
| Project and Program Management Tasks | | | | | | | | | | | | | | | | | |
| PM | 19100 | Program Management--Coordination | 10/1/08 | 9/30/09 | 469,653 | 92,469 | 27,986 | | 61,964 | 2,253 | 60,000 | 99,497 | 108,183 | 90,491 | | 1,012,496 | |
| PM | 19110 | Program Management--Correspondence | 10/1/08 | 9/30/09 | 43,368 | 27,240 | 7,900 | | 25,138 | 2,253 | | 29,921 | 42,607 | 47,033 | | 225,460 | |
| PM | 19120 | Prog Mgmt--Budget Development and Oversight | 10/1/08 | 9/30/09 | 68,175 | 16,382 | 6,711 | | 10,973 | 1,502 | 1,000 | 102,253 | 49,127 | 64,800 | | 320,923 | |
| PM | 19130 | Program and Project Management--Financial Management of Non-Cash Flow Projects | 10/1/08 | 9/30/09 | 67,013 | 10,557 | | | 17,718 | | | 0 | 18,083 | 33,779 | | 147,150 | |
| PM | 19200 | P&E Meetings (3 meetings preparation and attendance) | 10/1/08 | 9/30/09 | 19,348 | 9,443 | 4,924 | | 5,291 | 4,506 | 500 | 9,516 | 13,053 | 15,506 | | 82,087 | |
| PM | 19210 | Tech Com Mtngs (4 mtngs including three public and one off-site; prep and attend) | 10/1/08 | 9/30/09 | 133,007 | 29,124 | 7,516 | | 17,303 | 11,265 | 3,500 | 10,252 | 17,665 | 19,308 | | 248,940 | |
| PM | 19220 | Task Force mtngs (4 mtngs, including three public and one executive session; prep and attend) | 10/1/08 | 9/30/09 | 148,246 | 32,765 | 8,619 | | 24,151 | 9,012 | 7,000 | 17,378 | 29,095 | 41,160 | | 317,426 | |
| PM | 19400 | Agency Participation, Review 30% and 95% Design for Phase I Projects | 10/1/08 | 9/30/09 | 47,759 | 11,650 | | | 10,347 | 6,008 | 1,500 | 12,684 | 5,877 | 14,481 | | 110,306 | |
| PM | 19410 | Engineering & Environmental Work Groups review Phase II funding of approved Phase I projects (Needed for adequate review of Phase I.) [Assume 8 projects requesting Ph II funding in FY09. Assume 3 will require Eng or Env WG review; 2 labor days for each.] | 10/1/08 | 9/30/09 | 11,125 | 11,650 | | | 5,956 | 7,510 | 3,000 | 3,904 | 6,450 | 10,337 | | 59,932 | |
| PM | 19500 | Helicopter Support: Helicopter usage for the PPL process. | 10/1/08 | 9/30/09 | 0 | 25,085 | | | | | | | 0 | | | 25,085 | |
| PM | 19600 | Miscellaneous Technical Support | 10/1/08 | 9/30/09 | 139,893 | 9,829 | | | 81,406 | | 1,500 | 35,000 | 47,686 | 40,000 | | 355,314 | |
| FY09 Subtotal Project Management Tasks | | | | | 1,147,587 | 276,194 | 63,656 | 0 | 260,247 | 44,309 | 78,000 | 320,405 | 337,826 | 376,895 | 0 | 2,905,119 | |
| FY09 Total for PPL Tasks | | | | | 1,455,344 | 488,196 | 63,656 | 0 | 412,736 | 96,879 | 93,900 | 496,519 | 609,650 | 602,425 | 0 | 4,319,305 | |

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Tech Committee Recommendation,
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\$1,185,632 = Available Surplus

| TASK | | | | | CWPBRA COSTS | | | | | | | | | | | | |
|--|----------|---|------------|----------|------------------|------------------------|----------------|----------|----------------|--------------------|----------------|----------------|----------------|---------------------------|------------------------|------------------|---------|
| Task Category | Task No. | Description | Duration | | Dept of Defense | Department of Interior | | | | State of Louisiana | | | EPA | Department of Agriculture | Department of Commerce | Other | Total |
| | | | Start Date | End Date | USACE | USFWS | NWRC | USGS BR | CPRA IT | LDWF | GOCA | EPA | NRCS | NMFS | | | |
| SUPPLEMENTAL PLANNING AND EVALUATION TASKS | | | | | | | | | | | | | | | | | |
| SPE | 19100 | Academic Advisory Group [NOTE: MOA between sponsoring agency and LUMCON available through FY19.] [Prospectus, page 6-7] | 10/1/08 | 9/30/09 | | | | | | | 0 | | | | | 112,200 | 112,200 |
| SPE | 19200 | Maintenance of web-based project reports and website project fact sheets. [NWRC Prospectus, pg 8] [Corps Prospectus, pg 9] [LDNR Prospectus, pg 10] | 10/1/08 | 9/30/09 | 4,218 | | 45,200 | | 14,608 | | | | | | | | 64,026 |
| SPE | 19300 | Prepare Evaluation Report to Congress NOTE: next update in FY 09 budget | 10/1/08 | 9/30/09 | 6,540 | 6,540 | 81,750 | | 3,270 | | | 3,270 | 3,270 | 3,270 | 1,635 | 109,545 | |
| SPE | 19400 | Core GIS Support for CWPBRA Task Force Planning Activities. [NWRC Prospectus, pg 11] [LDNR Prospectus, page 12] | 10/1/08 | 9/30/09 | | | 296,294 | | 10,955 | | | | | | | 307,249 | |
| SPE | 19510 | CWPBRA Program Capacity Evaluation Part I, Update Cost Estimates for Cash Flow Projects Not Approved for Construction | 10/1/08 | 9/30/09 | 0 | 0 | | | 0 | | | 0 | 0 | 0 | | 0 | |
| SPE | 19520 | CWPBRA Program Capacity Evaluation Part 2, Update Cost Estimates for Cash Flow Projects Approved or Otherwise Funded for Construction | 10/1/08 | 9/30/09 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | |
| SPE | 19530 | CWPBRA Program Capacity Evaluation Part 3, Update O&M Cost Estimates for Constructed Projects | 10/1/08 | 9/30/09 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 | |
| SPE | 19600 | Report on The Gulf Intracoastal Waterway as a Distributary of Mississippi River Water to Coastal Louisiana Marshes | 10/1/08 | 9/30/09 | | | 18,000 | | | | | | | | | 18,000 | |
| FY09 Total Supplemental Planning & Evaluation Tasks | | | | | 10,758 | 6,540 | 441,244 | 0 | 28,833 | 0 | 0 | 3,270 | 3,270 | 3,270 | 113,835 | 611,020 | |
| FY09 Agency Tasks Grand Total | | | | | 1,466,102 | 494,736 | 504,900 | 0 | 441,569 | 96,879 | 93,900 | 499,789 | 612,920 | 605,695 | 113,835 | 4,930,325 | |
| Otrch | 19100 | Outreach - Committee Funding | 10/1/08 | 9/30/09 | | | | | | | | | | | 443,910 | 443,910 | |
| Otrch | 19200 | Outreach - Agency | 10/1/08 | 9/30/09 | 6,600 | 3,300 | 29,500 | | 6,600 | | 6,600 | 6,600 | 6,600 | 6,600 | | 72,400 | |
| FY09 Total Outreach | | | | | 6,600 | 3,300 | 29,500 | 0 | 6,600 | 0 | 6,600 | 6,600 | 6,600 | 6,600 | 443,910 | 516,310 | |
| Grand Total FY09 | | | | | 1,472,702 | 498,036 | 534,400 | 0 | 448,169 | 96,879 | 100,500 | 506,389 | 619,520 | 612,295 | 557,745 | 5,446,635 | |
| Disallowances | | | | | | | | | | | | | | | | | |
| Proposed Revised Grand Total FY09 | | | | | 1,472,702 | 498,036 | 534,400 | 0 | 448,169 | 96,879 | 100,500 | 506,389 | 619,520 | 612,295 | 557,745 | 5,446,635 | |

**Coastal Wetlands Planning, Protection and Restoration Act
Fiscal Year 2009 Budget Summary**

**P&E Committee Recommendation, 28 August 2008
Tech Committee Recommendation,
Task Force Approval,**

| | FY2006 Amount (\$) | FY2007 Amount (\$) | FY2008 Amount (\$) | FY2009 Amount (\$) |
|--|---------------------------|---------------------------|---------------------------|---------------------------|
| <u>General Planning & Program Participation [Supplemental Tasks Not Included]</u> | | | | |
| State of Louisiana | | | | |
| LDNR | 386,677 ³⁴ | 412,736 | 412,736 | 412,736 |
| LDWF | 73,598 | 96,879 | 96,879 | 96,879 |
| Gov's Ofc | 87,500 ³⁴ | 86,500 | 0 | 93,900 |
| Total State | <u>547,775</u> | <u>596,115</u> | <u>509,615</u> | <u>603,515</u> |
| EPA | 439,800 ³⁴ | 469,091 | 487,549 | 496,519 |
| Dept of the Interior | | | | |
| USFWS | 464,478 ³⁴ | 476,885 | 488,196 | 488,196 |
| NWRC | 137,071 ³⁴ | 63,656 | 63,656 | 63,656 |
| USGS Reston | | | | |
| USGS Baton Rouge | | | | |
| USGS Woods Hole | | | | |
| Natl Park Service | | | | |
| Total Interior | <u>601,549</u> | <u>540,541</u> | <u>551,852</u> | <u>551,852</u> |
| Dept of Agriculture | 590,937 ³⁴ | 596,400 | 597,504 | 609,650 |
| Dept of Commerce | 570,350 ³⁴ | 583,134 | 604,981 | 602,425 |
| Dept of the Army | 1,171,199 ³⁴ | 1,259,208 | 1,305,578 | 1,455,344 |
| Agencies Total | <u>\$3,921,610</u> | <u>\$4,044,489</u> | <u>\$4,057,079</u> | <u>\$4,319,305</u> |
| <u>Feasibility Studies Funding</u> | | | | |
| Barrier Shoreline Study | | | | |
| WAVCIS (DNR) | | | | |
| Study of Chenier Plain | | | | |
| Miss R Diversion Study | | | | |
| Total Feasibility Studies | | | | |
| <u>Complex Studies Funding</u> | | | | |
| Beneficial Use Sed Trap Below Venice (COE) | | | | |
| Barataria Barrier Shoreline (NMFS) | | | | |
| Diversion into Maurepas Swamp (EPA/COE) | | | | |
| Holly Beach Segmented Breakwaters (DNR) | | | | |
| Central & Eastern Terrebonne Basin (USFWS) | | 190,000 | | |
| Delta Building Diversion Below Empire (COE) | | | | |
| Total Complex Studies | <u>\$0</u> | <u>\$190,000</u> | <u>\$0</u> | <u>\$0</u> |

**Coastal Wetlands Planning, Protection and Restoration Act
Fiscal Year 2009 Budget Summary**

**P&E Committee Recommendation, 28 August 2008
Tech Committee Recommendation,
Task Force Approval,**

| | FY2006 Amount (\$) | FY2007 Amount (\$) | FY2008 Amount (\$) | FY2009 Amount (\$) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|
| Outreach | | | | |
| Outreach | 460,948 | 463,858 | 464,470 | 516,310 |
| Supplemental Tasks | | | | |
| Academic Advisory Group | 99,000 | 100,100 | 103,400 | 112,200 |
| Database & Web Page Link Maintenance | 61,698 | 62,996 | 63,806 | 64,026 |
| Linkage of CWPPRA & LCA | | | | |
| Core GIS Support for Planning Activities | 305,249 | 307,249 | 307,249 | 307,249 |
| Oyster Lease GIS Database-Maint & Anal | 103,066 | | | |
| Oyster Lease Program Mgmt & Impl | | | | |
| Joint Training of Work Groups | | | | |
| Terrebonne Basin Recording Stations | | | | |
| Land Loss Maps (COE) | 63,250 | | | |
| Storm Recovery Procedures (2 events) | 97,534 | | | |
| Landsat Satellite Imagery | | | | |
| Digital Soil Survey (NRCS/NWRC) | | | | |
| GIS Satellite Imagery | | | | |
| Aerial Photography & CD Production | | | | |
| Adaptive Management | | | | |
| Development of Oyster Reloc Plan | | | | |
| Dist & Maintain Desktop GIS System | | | | |
| Eng/Env WG rev Ph 2 of appr Ph 1 Prjs | | | | |
| Evaluate & Assess Veg Plntgs Coastwide | | | | |
| Monitoring - NOAA/CCAP ²³ | | | | |
| High Resolution Aerial Photography (NWRC) | | | | |
| Coast-Wide Aerial Vegetation Svy | | | | |
| Repro of Land Loss Causes Map | | | | |
| Model flows Atch River Modeling | | | | |
| MR-GO Evaluation | | | | |
| Monitoring - | | | | |
| Academic Panel Evaluation | | | | |
| Brown Marsh SE Flight (NWRC) | | | | |
| Brown Marsh SW Flight (NWRC) | | | | |
| COAST 2050 (DNR) | | | | |
| Purchase 1700 Frames 1998 | | | | |
| Photography (NWRC) | | | | |
| CDROM Development (NWRC) | | | | |
| DNR Video Repro | | | | |
| Gov's Office Workshop | | | | |
| GIWW Data collection | | | | |
| Evaluation Report to Congress | | | | 109,545 |
| CWPPR Prog Capac Eval P1 | | | | - |
| CWPPR Prog Capac Eval P2 | | | | - |
| CWPPR Prog Capac Eval P3 | | | | - |
| GIWW Distributary Report (FY09) | | | | 18,000 |
| Total Supplemental | \$729,797 | \$470,345 | \$474,455 | \$611,020 |
| Total Allocated | \$5,112,355 | \$5,168,692 | \$4,996,004 | \$5,446,635 |
| Unallocated Balance | | | | (\$446,635) |
| /Planning_2009/ Total Unallocated | \$1,185,632 | | | \$738,997 |
| (5)FY09CWPPRAPlanBudPkg1_28Aug08 | | | | |
| FY_summary | | | | |

Coastal Wetlands Planning, Protection and Restoration Act Fiscal Year 2009 Budget Summary

P&E Committee Recommendation, 28 August 2008 Tech Committee Recommendation, Task Force Approval,

| FY2006 Amount (\$) | FY2007 Amount (\$) | FY2008 Amount (\$) | FY2009 Amount (\$) |
|-----------------------|-----------------------|-----------------------|-----------------------|
|-----------------------|-----------------------|-----------------------|-----------------------|

Footnotes:

- ¹ amended 28 Feb 96
- ² \$700 added for printing, 15 Mar 96 (TC)
- ³ transfer \$600k from '97 to '98
- ⁴ transfer \$204k from MRSNFR TO Barrier Shoreline Study
- ⁵ increase of \$15.1k approved on 24 Apr 97
- ⁶ increase of \$35k approved on 24 Apr 97
- ⁷ increase of \$40k approved on 26 Jul 97 from Corps Planning Funds
- ⁸ Original \$550 in Barrier Shoreline Included \$200k to complete Phase 1 EIS, and \$350k to develop Phase 2 feasibility scope.
- ⁹ Assumes a total of \$420,000 is removed from the Barrier Shoreline Study over 2 years from Phase 1 EIS
- ¹⁰ Excludes \$20k COE, \$5k NRCS, \$5k DNR, \$2kUSFWS, and \$16k NMFS moved to Coast 2050 during FY 97 for contracts & @\$255k absorbed in agency FY 97 budgets for a total of \$303,000.
to COAST2050 during FY 97 for contracts & @\$255k absorbed in agency FY 97 budgets for a total of \$303,000.
- ¹¹ Additional \$55,343 approved by Task Force for video documentary.
- ¹² \$29,765 transferred from DNR Coast 2050 to NWRC Coast 2050 for evaluation of Report.
- ¹³ \$100,000 approved for WAVCIS at 4 Aug 99 Task Force meeting. Part of Barrier Shoreline Study.
- ¹⁴ Task Force approved 4 Aug 99.
- ¹⁵ Task Force approved additional \$50,000 at 4 Aug 99
- ¹⁶ Carryover funds from previous FY's; this number is being researched at present.
- ¹⁷ \$600,000 given up by MRSNFR for FY 2000 budget.
- ¹⁸ Total cost is \$228,970.
- ¹⁹ Task Force approved FY 2000 Planning Budget 7 Oct 99 as follows:
 - (a) General Planning estimates for agencies approved.
 - (b) 75% of Outreach budget approved; Agency outreach funds removed from agency General Planning funds; Outreach Committee given oversight of agency outreach funds.
 - (b) 50% of complex project estimates approved.
- ²⁰ Outreach: original approved budget was \$375,000; revised budget \$415,000.
 - (a) 15 Mar 2000, Technical Committee approved \$8,000 increase Watermarks printing.
 - (b) 6 Jul 2000, Task Force approved up to \$32,000 for Sidney Coffee's task of implementing national outreach effort.
- ²¹ 5 Apr 2000, Task Force approved additional \$67,183 for preparation of report to Congress.
\$32,000 of this total given to NWRC for preparation of report.
- ²² 6 Jul 00: Monitoring - Task Force approved \$30,000 for Greg Steyer's academic panel evaluation of monitoring program.
- ²³ Definition: Monitoring (NWRC) - NOAA/CCAP (Coastwide Landcover [Habitat] Monitoring Program
- ²⁴ 29 Aug 00: Task Force fax vote approves \$29,500 for NWRC for brown marsh southeastern flight
- ²⁵ 1 Sep 00: Task Force fax vote approves \$46,000 for NWRC for brown marsh southwestern flight
- ²⁶ 10 Jan 2001: Task Force approves additional \$113,000 for FY01.
- ²⁷ 30 May 01: Tech Comm approves 86,250 for Coast-Wide Aerial Vegetation Survey for LDNR; T.F. fax vote approves
- ²⁸ 7 Aug 2001: Task Force approves additional \$63,000 in Outreach budget for Barataria Terrebonne National Estuary Foundation Superbowl campaign proposal.
- ²⁹ 16 Jan 2002, Task Force approves \$85,000 for each Federal agency (except COE) for participation in LCA/Coast 2050 studies and collocation.
Previous budget was \$45,795, revised budget is \$351,200, an increase of \$305,405. This task is a supplemental activity in each agency's General Planning budget.
- ³⁰ 2 Apr 02: LADNR requested \$64,000 be transferred from its General Planning budget to LUMCON for Academic Assistance on the Adaptive Management supplemental task.
- ³¹ 1 May 02: LADNR requested \$1,500 be transferred from their General Planning (activity ER 12010, Prepare Report to Congress) and given to NWRC for creation of a web-ready version of the CWPPRA year 2000 Report to Congress for printing process.
- ³² 16 Jan 2003: Task Force approves LDWF estimate that was not included in originally approved budget.
- ³³ 4 May 2005: Task Force approves additional \$164,024 funding under General Planning for Programmatic Assessment and Vision task; +\$48,840 (COE); +\$86,938 (NWRC); +\$21,670 (NRCS); +\$6,576 (NMFS)
- ³⁴ 24 Aug 2006: Scott Wilson requests reduction of \$37,000 from the \$86,938 for the Programmatic Assessment; \$45,000 was given for printing but only \$8,000 used.
- ³⁵ 25 Jan 2006: FY2006 budget, \$98,250 for Report to Congress item added to approved budget
- ³⁵ 28 July 2005: Scott Wilson e-mail requests reduction of \$43,113.99 from current \$275,000 FY98 budget.

Coastal Wetlands Planning, Protection and Restoration Act
Fiscal Year 2009 Budget Refinement

| Activity | P & E Initial Budget 21-Jul-08 Amount (\$) (1) | Option 1 P & E Recommends to Tech 28-Aug-08 Amount (\$) (2a) | Option 2 P & E Recommends to Tech 28-Aug-08 Amount (\$) (2b) | Option 3 P & E Recommends to Tech 28-Aug-08 Amount (\$) (2c) | Tech Committee Recommendations Amount (\$) (3) | Task Force Approves Amount (\$) (4) |
|--|---|---|---|---|--|--|
| General Planning & Program Participation (does not include Supplemental Activities) | | | | | | |
| State of Louisiana | | | | | | |
| DNR | 415,736 | 412,736 | 412,736 | 412,736 | | |
| Gov's Ofc | 93,900 | 93,900 | 93,900 | 93,900 | | |
| LDWF | 96,879 | 96,879 | 96,879 | 96,879 | | |
| Total State | 606,515 | 603,515 | 603,515 | 603,515 | | |
| EPA | 496,519 | 496,519 | 496,519 | 496,519 | | |
| Dept of the Interior | | | | | | |
| USFWS | 488,196 | 488,196 | 488,196 | 488,196 | | |
| NWRC | 63,656 | 63,656 | 63,656 | 63,656 | | |
| USGS Reston | | | | | | |
| USGS-B.R. | | | | | | |
| USGS-Woods Hole | | | | | | |
| NPS | | | | | | |
| Total Interior | 551,852 | 551,852 | 551,852 | 551,852 | | |
| Dept of Agriculture | 609,650 | 609,650 | 609,650 | 609,650 | | |
| Dept of Commerce | 609,301 | 602,425 | 602,425 | 602,425 | | |
| Dept of the Army | 1,463,369 | 1,455,344 | 1,455,344 | 1,455,344 | | |
| Agency Total | \$4,337,206 | \$4,319,305 | \$4,319,305 | \$4,319,305 | | |
| Complex Studies Funding | | | | | | |
| Beneficial Use Sed Trap Below Venice (COE) | | | | | | |
| Barataria Barrier Shoreline (NMFS) | | | | | | |
| Diversion into Maurepas Swamp (EPA/COE) | | | | | | |
| Holly Beach Segmented Breakwaters (DNR) | | | | | | |
| Central & Eastern Terrebonne Basin (USFWS) | | | | | | |
| Delta Building Diversion Below Empire (COE) | | | | | | |
| Total Complex Studies | | | | | | |
| Supplemental Tasks | | | | | | |
| Academic Advisory Group | | 112,200 | 112,200 | 112,200 | | |
| Maint of Web-Based Project Reports | 64,026 | 64,026 | 64,026 | 64,026 | | |
| Linkage of CWPPRA and LCA | | | | | | |
| Core GIS Support for Planning Activities | 307,249 | 307,249 | 307,249 | 307,249 | | |
| Prog Capacity Eval Part I | 2,686 | | 41,935 | | | |
| Prog Capacity Eval Part 2 | | | 29,910 | 29,910 | | |
| Prog Capacity Eval Part 3 | | | 94,280 | 94,280 | | |
| GIWW Distributary Report (FY09) | | 18,000 | 18,000 | 18,000 | | |
| Report to Congress | | 109,545 | 109,545 | 109,545 | | |
| Oyster Lease Database Maint & Analysis | | | | | | |
| Oyster Lease Program Mgmt & Impl | | | | | | |
| Joint Training | | | | | | |
| Update Landloss Maps | | | | | | |
| Storm Recovery Procedures (2 events) | | | | | | |
| Land-Water Chg Assessment after 2005 | | | | | | |
| Oyster Relocation Plan | | | | | | |
| Subtotal Supplemental | \$373,961 | \$611,020 | \$777,145 | \$735,210 | | |

Coastal Wetlands Planning, Protection and Restoration Act
Fiscal Year 2009 Budget Refinement

| Activity | P & E Initial Budget 21-Jul-08 Amount (\$) (1) | Option 1 P & E Recommends to Tech 28-Aug-08 Amount (\$) (2a) | Option 2 P & E Recommends to Tech 28-Aug-08 Amount (\$) (2b) | Option 3 P & E Recommends to Tech 28-Aug-08 Amount (\$) (2c) | Tech Committee Recommends Amount (\$) (3) | Task Force Approves Amount (\$) (4) |
|---|---|---|---|---|---|--|
| Outreach | | | | | | |
| Outreach Committee | | 443,910 | 443,910 | 443,910 | | |
| Agency Participation: USACE | 6,600 | 6,600 | 6,600 | 6,600 | | |
| Agency Participation: USFWS | 3,300 | 3,300 | 3,300 | 3,300 | | |
| Agency Participation: NWRRC | 3,300 | 3,300 | 3,300 | 3,300 | | |
| Agency Participation: DNR | 6,600 | 6,600 | 6,600 | 6,600 | | |
| Agency Participation: Ofc of Gov | 6,600 | 6,600 | 6,600 | 6,600 | | |
| Agency Participation: EPA | 6,600 | 6,600 | 6,600 | 6,600 | | |
| Agency Participation: NRCS | 6,600 | 6,600 | 6,600 | 6,600 | | |
| Agency Participation: NMFS | 6,600 | 6,600 | 6,600 | 6,600 | | |
| Agency Administration: NWRRC | 26,200 | 26,200 | 26,200 | 26,200 | | |
| Dedications Support (no helicopters) | | | | | | |
| Helicopter Overflights for Special events (no dedications) | | | | | | |
| Outreach Committee Operations Budget: | | | | | | |
| Outreach Coordinator - Gabrielle Bodin | | | | | | |
| Watermarks | | | | | | |
| LaCoast Internet Home Page | | | | | | |
| Outreach Assistant/Interpretive Specialist | | | | | | |
| Printing, Video, & Graphics Support | | | | | | |
| Conference/Exhibit Support | | | | | | |
| Travel | | | | | | |
| Product Reproduction | | | | | | |
| Contractual Support for Outreach Dist | | | | | | |
| Awareness Poster Development (COE) | | | | | | |
| Broadcast Quality B-roll Aerial Video | | | | | | |
| Project Sign Development (NRCS) | | | | | | |
| Contract Writer (USGS) | | | | | | |
| New Initiative-Science of Rest Video/CD | | | | | | |
| New Initiative- | | | | | | |
| New Initiative- | | | | | | |
| and Values CD | | | | | | |
| Subtotal - Outreach | \$72,400 | \$516,310 | \$516,310 | \$516,310 | | |
| Total Allocated | \$4,783,567 | \$5,446,635 | \$5,612,760 | \$5,570,825 | | |
| Unallocated Balance | 216,433 | (446,635) | (612,760) | (570,825) | 5,000,000 | 5,000,000 |
| Total Unallocated | 1,402,065 | 738,997 | 572,872 | 614,807 | 6,185,632 | 6,185,632 |
| (Carry In = \$1,185,632) | | | | | | |
| \$1,185,632 | | | | | | |

**SPE 19510 – CWPPRA Program Capacity Evaluation Part 1
Update Cost Estimates for Cash Flow Projects Not Approved for Construction
[Corps]**

Task Description: Project construction costs have significantly increased since the 2005 hurricanes and more recently due to fuel and material cost increases. Current estimates for CWPPRA projects that have not been funded or otherwise approved for construction are expected to be outdated and lower than the actual future costs would be. As such, it is expected that current estimates of the CWPPRA Program’s capacity to meet future anticipated construction funding approvals do not sufficiently reflect reasonably anticipated future construction program costs. As such, the P&E recommends that unit cost estimates, schedules, and economic analysis be updated for all cash-flow projects that have not been approved and funded for construction.

FY 2009 Budget Request: The Planning and Evaluation Subcommittee, and Engineering and Economics Workgroups would be responsible for executing this task. The Corps will take the lead on this supplemental task and all CWPPRA agencies will be engaged consistent with normal Engineering Cost Estimate and Economics review procedures.

| Eng | Unit Cost | Unit | Units | Total Estimate |
|-----------------------|-----------|-----------------|----------------|----------------|
| Engineering WG Chair | \$1,000 | Work Days | 5.5 | \$5,500 |
| Economics WG Chair* | \$400 | No. of Projects | 33 | \$13,200 |
| USFWS, EngWG | \$1,000 | Work Days | 2 | \$2,000 |
| NRCS, EngWG | \$1,000 | Work Days | 5.5 | \$5,500 |
| NMFS, EngWG | \$1,000 | Work Days | 2 | \$2,000 |
| EPA, EngWG | \$1,000 | Work Days | 2 | \$2,000 |
| CPRA IIT | \$1,000 | Work Days | 2 | \$2,000 |
| P&E Chair | \$800 | Level of Effort | 1 | \$800 |
| Rest of P&E | \$500 | Level of Effort | 5 | \$2,500 |
| Corps Program Analyst | \$195 | No. of Projects | 33 | \$6,435 |
| | | | Total Estimate | \$41,935 |
| | | | Avg Cost/Prj | \$1,271 |

*Work may be distributed among Corps and NRCS

Benefit to CWPPRA: Updating cost estimates of anticipated future funding approvals will enable the Task Force to ascertain and inform the public of the impacts of program funding limits on future Priority Project List development.

Contact: Melanie L Goodman, US Army Corps of Engineers, Protection and Restoration Office, Restoration Branch, (504) 962-1940.

SPE 19520 – CWPPRA Program Capacity Evaluation Part 2
Update Cost Estimates for Projects Approved or Otherwise Funded for Construction
[Corps]

Task Description: The P&E recommends that engineering cost estimates, schedules, and economic analysis be updated for all projects that have been approved or otherwise funded for construction. Project construction costs have rapidly and significantly increased since the 2005 hurricanes and more so recently due to fuel and material cost increases. These increases are evident in the recent trend in CWPPRA projects needing construction cost increases. Current estimates for CWPPRA projects that have been approved or otherwise funded, but have not yet awarded construction contracts, are anticipated to be outdated and lower than the actual construction costs will be. As such, these project cost estimates need to be updated so that the Task Force will be better able to forecast and weigh the impacts of likely construction funding increases on annual construction program budgets.

FY 2009 Budget Request: Project lead federal and local sponsors will be responsible for updating construction and O&M engineering estimates, schedules and coordinating economic analyses based on current project features. These tasks will be charged to individual project budgets. The Engineering Workgroups will review estimates and schedules and the Economics Workgroup will prepare updated Economic Analysis at the expense of the CWPPRA Planning Budget. The Corps will be the lead on this supplemental task and all CWPPRA agencies will be engaged consistent with normal Engineering Cost Estimate and Economics review procedures.

| Eng | Unit Cost | Unit | Units (#Prjs) | Total Estimate |
|-----------------------|-----------|-----------------|----------------|----------------|
| Engineering WG Chair | \$1,000 | Work Days | 4.5 | \$4,500 |
| Economics WG Chair* | \$400 | No. of Projects | 17 | \$6,800 |
| USFWS, EngWG | \$1,000 | Work Days | 1 | \$1,000 |
| NRCS, EngWG | \$1,000 | No. of Projects | 4.5 | \$4,500 |
| NMFS, EngWG | \$1,000 | Work Days | 1 | \$1,000 |
| EPA, EngWG | \$1,000 | Work Days | 1 | \$1,000 |
| CPRA IIT | \$1,000 | Work Days | 1 | \$1,000 |
| P&E Chair | \$2,000 | Level of Effort | 1 | \$2,000 |
| Rest of P&E | \$500 | Level of Effort | 5 | \$2,500 |
| Corps Program Analyst | \$330 | No. of Projects | 17 | \$5,610 |
| | | | Total Estimate | \$29,910 |
| | | | Avg Cost/Prj | \$1,759 |

*Work may be distributed among Corps and NRCS

Benefit to CWPPRA: Updating cost estimates of projects approved or funded for construction will enable the Task Force to ascertain and inform the public of the impacts of cost increases on annual construction program budgets and future Priority Project List development.

Contact: Melanie L Goodman, US Army Corps of Engineers, Protection and Restoration Office, Restoration Branch, (504) 962-1940.

SPE 19530 – CWPPRA Program Capacity Evaluation Part 3
Update Operation and Maintenance Cost Estimates for Constructed Projects
[CPRA IT]

Task Description: O&M costs have significantly increased since the 2005 hurricanes and more recently due to fuel and material cost increases. Current CWPPRA O&M cost estimates are expected to be lower than the actual future costs needs, and may not reflect reasonably anticipated future program costs. The P&E recommends that O&M unit cost estimates, schedules, and economic analyses be updated for all constructed or projects in construction (75 constructed and 16 in construction; total 91 projects).

FY 2009 Budget Request: CPRA IT (DNR) O&M managers, Federal-sponsor project managers, and the Engineering and Economics Workgroups would be responsible for executing this task. All CWPPRA agencies will review the draft results consistent with normal Engineering Cost Estimate and Economics review procedures.

| Eng | Unit Cost | Unit | Units | Total Estimate |
|---------------------------------|-----------|-----------------|------------------|----------------|
| CPRA IT O&M Supervisor | \$60 | No. of Projects | 54 | \$3,240 |
| CPRA IT O&M Staff | \$420 | No. of Projects | 54 | \$22,680 |
| Federal Sponsor Managers Review | \$60 | No. of Projects | 54 | \$3,240 |
| Engineering WG Chair | \$1,000 | Work Days | 6.5 | \$6,500 |
| Economics WG* | \$400 | No. of Projects | 54 | \$21,600 |
| USFWS, EngWG | \$1,000 | Work Days | 3 | \$3,000 |
| NRCS, EngWG | \$1,000 | Work Days | 6.5 | \$6,500 |
| NMFS, EngWG | \$1,000 | Work Days | 3 | \$3,000 |
| EPA, EngWG | \$1,000 | Work Days | 3 | \$3,000 |
| CPRA IIT | \$1,000 | Work Days | 3 | \$3,000 |
| P&E Chair | \$200 | Level of Effort | 1 | \$200 |
| P&E Subcommittee | \$100 | Level of Effort | 5 | \$500 |
| Corps Program Analyst (Gay) | \$330 | No. of Projects | 54 | \$17,820 |
| | | | Total Task Cost | \$94,280 |
| | | | Average Cost/Prj | \$1,347 |

*Work may be distributed among Corps and NRCS

Benefit to CWPPRA: Updating O&M costs for constructed projects will enable the Task Force to better determine and inform the public of the impacts of program funding limits on future Priority Project List development.

Contact: Melanie L Goodman, US Army Corps of Engineers, Protection and Restoration Office, Restoration Branch, (504) 862-1940.

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

TECHNICAL COMMITTEE MEETING

October 9, 2008

TASK FORCE FAX VOTE APPROVAL ON USACE AND CPRA REQUEST TO INCREASE THE CONSTRUCTION BUDGET FOR THE PPL 8 - SABINE REFUGE MARSH CREATION PROJECT, CYCLE 2 (CS-28-2)

For Report:

The Technical Committee voted by email to recommend Task Force Fax vote approval of a construction budget increase request by the U.S. Army Corps of Engineers (USACE) and the Coastal Protection and Restoration Authority (CPRA) for the PPL 8 - Sabine Refuge Marsh Creation Project, Cycle 2 (CS-28-2). The Task Force approved the Technical Committee's recommendation to increase the project construction budget in the amount of \$5,000,000, including immediate funding in the amount of \$2,060,351, to construct a permanent sediment delivery pipeline. Bids for the pipeline construction were greater than the government's maximum awardable amount, and a contract was therefore not awarded. The USACE project manager will provide a status on the construction contract bid opening and proposed path forward for the project.



DEPARTMENT OF THE ARMY

NEW ORLEANS DISTRICT, CORPS OF ENGINEERS

P.O. BOX 60267

NEW ORLEANS, LOUISIANA 70160-0267

REPLY TO
ATTENTION OF:

CEMVN-PM-OR

18 JUN 2008

MEMORANDUM FOR Louisiana Coastal Wetlands Conservation and Restoration Task Force

SUBJECT: Recommendation to increase the construction budget for the PPL 8 - Sabine Refuge Marsh Creation Project, Cycle 2 (CS-28-2)

1. The U.S. Army Corps of Engineers (USACE) and Louisiana Department of Natural Resources (LDNR) are requesting to increase the construction budget for the Sabine Refuge Marsh Creation Project, Cycle 2 (CS-28-2) in the amount of \$5,000,000, including immediate funding in the amount of \$2,060,351, for construction of a permanent sediment delivery pipeline. The remaining budgeted funds will be used for the incremental cost of beneficial use of maintenance dredging material to create 230 acres of marsh. The pipeline is intended to be reused for future CWPPRA project cycles to create an additional 460 acres of marsh.

2. There is an immediate need for a construction funding increase in the amount of \$2,060,351 in order to open bids for the pipeline contract. If these funds are approved by the Task Force, then additional funding approval for the marsh creation construction contract may be requested after the pipeline contract has been awarded, and after an updated government estimate is provided for the marsh creation contract. The project sponsors anticipate that the maximum total construction budget increase for both the pipeline and the marsh creation contract will be \$5,000,000. The requested \$5,000,000 construction budget increase would increase the approved fully funded estimate for Cycle 2 from \$11,583,553 to \$16,583,553. The requested \$2,060,351 immediate funding increase would increase the approved project funded estimate from \$11,583,553 to \$13,643,904. The \$5,000,000 budget increase would increase the cost per acre (i.e., reduce the cost effectiveness) for Cycle 2 from \$50,363/acre to \$72,102/acre.

3. On behalf of USACE and LDNR, I request a fax vote from the Task Force (in accordance with the Standard Operating Procedures, Revision 14, page 20) regarding the recommended increase in construction funds. Please consider the following motion:

The CWPPRA Task Force approves the Technical Committee's recommendation to increase the construction budget for the PPL 8 - Sabine Refuge Marsh Creation Project, Cycle 2 (CS-28-2) in the amount of \$5,000,000, including immediate funding in the amount of \$2,060,351.

4. We have included a copy of correspondence from USACE requesting to increase the construction budget for the PPL 8 - Sabine Refuge Marsh Creation Project, Cycle 2 (CS-28-2) (Encl 1).

CEMVN-PM-OR

SUBJECT: Recommendation to increase the construction budget for the PPL 8 - Sabine Refuge Marsh Creation Project, Cycle 2 (CS-28-2)

5. Please use the enclosed facsimile transmittal form to submit your vote (Encl 2). Please fax your completed form to the U.S. Army Corps of Engineers at (504) 862-1892 or email a scanned copy to Melanie.L.Goodman@usace.army.mil by COB Wednesday, 18 June 2008.

6. If you have any questions concerning this request please contact Ms. Melanie L. Goodman, CWPPRA Program Manager, at (504) 862-1940.



ALVIN B. LEE
Colonel, EN
Commanding

2 Encls

1. USACE and LDNR Fax Vote Request and supporting information
2. Fax Vote Form

CF via email (w/encl):

Mr. Garret Graves, LA Office of the Governor
Mr. William Honker, Environmental Protection Agency
Mr. Jim Boggs, U.S. Fish and Wildlife Service
Mr. Kevin Norton, Natural Resource Conservation Service
Mr. Chris Doley, National Oceanic and Atmosphere Administration
Mr. Darryl Clark, U.S. Fish and Wildlife Service
Mr. Kirk Rhinehart, LA Department of Natural Resources
Mr. Rick Hartman, National Marine and Fisheries Service
Ms. Sharon Parrish, Environmental Protection Agency
Mr. Britt Paul, Natural Resource Conservation Service

FACSIMILE TRANSMITTAL HEADER SHEET

| Agency | | NAME/OFFICE SYMBOL | | OFFICE TELEPHONE NO. | OFFICE FAX NO. |
|----------------|------------|--|-----------|----------------------|----------------|
| FROM | | | | | |
| U.S. EPA | | Bill Honker | | 214-665-3187 | 214-665-7373 |
| TO | | | | | |
| USACE | | Melanie L. Goodman CWPPRA Program Manager | | (504) 862-1940 | (504) 862-1892 |
| Classification | Precedence | No. Pages Including Header | Date/time | Releaser's Signature | |
| | | 1 | 6/18/2008 | Melanie Goodman | |

REMARKS:

The Motion:

The CWPPRA Task Force approves the Technical Committee's recommendation to increase the construction budget for the PPL 8 - Sabine Refuge Marsh Creation Project, Cycle 2 (CS-28-2) in the amount of \$5,000,000, including immediate funding in the amount of \$2,060,351.

Please check one of the following:

I approve the motion as stated above.

I do NOT approve the motion as stated above.

Signed,


Task Force Member Name

6/18/08
Date

FACSIMILE TRANSMITTAL HEADER SHEET

| Agency | NAME/OFFICE SYMBOL | OFFICE TELEPHONE NO. | OFFICE FAX NO. |
|-------------------|--|-------------------------------|---|
| FROM USDA/NRCS | Kevin D. Norton | 318-473-7751 | 318-473-7626 |
| TO USACE | Melanie L. Goodman CWPPRA Program Manager | (504) 862-1940 | (504) 862-1892 |
| Classification | Precedence | No. Pages Including Header | Date/Time |
| | | 1 | 6/16/2008 |
| | | | Releaser's Signature Melania Goodman |

REMARKS:

The Motion:

The CWPPRA Task Force approves the Technical Committee's recommendation to increase the construction budget for the PPL 8 - Sabine Refuge Marsh Creation Project, Cycle 2 (CS-28-2) in the amount of \$5,000,000, including immediate funding in the amount of \$2,060,351.

Please check one of the following:

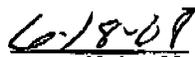
I approve the motion as stated above.

I do NOT approve the motion as stated above.

Signed,



 W. Britt Paul, ASTC acting for
 Kevin D. Norton, STC


 18-Jun-08

FACSIMILE TRANSMITTAL HEADER SHEET

| Agency | | NAME/OFFICE SYMBOL | OFFICE TELEPHONE NO. | OFFICE FAX NO. |
|----------------|------------|--|------------------------|---|
| FROM USFWS | | Jim Boggs | 337/291-31115 | 337/291-3139 |
| TO USACE | | Melanie L. Goodman CWPPRA Program Manager | (504) 862-1940 | (504) 862-1892 |
| Classification | Precedence | No. Pages Including Header 1 | Date/time 6/16/2008 | Releaser's Signature Melanie Goodman |

REMARKS:

The Motion:

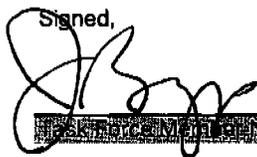
The CWPPRA Task Force approves the Technical Committee's recommendation to increase the construction budget for the PPL 8 - Sabine Refuge Marsh Creation Project, Cycle 2 (CS-28-2) in the amount of \$5,000,000, including immediate funding in the amount of \$2,060,351.

Please check one of the following:

I approve the motion as stated above.

I do NOT approve the motion as stated above.

Signed,



6/17/08

FACSIMILE TRANSMITTAL HEADER SHEET

| | | | |
|-----------------------|--|-------------------------------|---|
| Agency | NAME/OFFICE SYMBOL | OFFICE TELEPHONE NO. | OFFICE FAX NO. |
| FROM NOAA Fsheries | Christopher D. Doley | (301) 713-0174 | (301) 713-0184 |
| TO USACE | Melanie L. Goodman CWPPRA Program Manager | (504) 862-1940 | (504) 862-1892 |
| Classification | Precedence | No. Pages Including Header | Date/time |
| | | 1 | 6/16/2008 |
| | | | Releaser's Signature Melanie Goodman |

REMARKS:

The Motion:

The CWPPRA Task Force approves the Technical Committee's recommendation to increase the construction budget for the PPL 8 - Sabine Refuge Marsh Creation Project, Cycle 2 (CS-28-2) in the amount of \$5,000,000, including immediate funding in the amount of \$2,060,351.

Please check one of the following:

I approve the motion as stated above.

I do NOT approve the motion as stated above.

Signed,

Christopher D. Doley

Christopher D. Doley

6-18-2008

Date

MEMORANDUM FOR Executive Office/ ATTN: Thomas Holden

SUBJECT: CWPPRA Sabine Marsh Creation Project, Cycle 2 (CS-28-2), request for Task Force FAX Vote approval for construction budget and funding increase.

1. The Corps of Engineers, with concurrence from the Louisiana Department of Natural Resources and the U.S. Fish and Wildlife Service (see attached communications) requests Technical Committee and Task Force Fax Vote approval for a construction budget increase in the amount of \$5,000,000, including an immediate funding increase in the amount of \$2,060,351 for the Sabine Marsh Creation Project, Cycle 2, which includes construction of a permanent sediment delivery pipeline and beneficial use of maintenance dredging material to create 230 acres of marsh. The pipeline is intended to be reused for future CWPPRA project cycles to create an additional 460 acres of marsh.
2. The subject project entails two separate contracts: 1) to construct the permanent sediment delivery pipeline that was scheduled for bid opening Thursday, May 29, 2008; and 2) for the incremental work required to beneficially use maintenance dredge material for marsh creation, which is scheduled to be advertised by August 31, 2008.
3. The pipeline construction cost has directly and indirectly increased due to fuel cost increases and limited availability of steel. We anticipate that the construction cost for the marsh creation component will continue to increase due to rising fuel prices as well.
4. The current approved project construction budget does not have sufficient funds to cover the maximum awardable reasonable construction contract cost (25% over government estimate) for the pipeline. Also, the budget does not have sufficient funds to cover the marsh creation contract.
5. The Corps must certify that there are sufficient funds available to cover the maximum awardable reasonable construction contract cost before we can conduct a bid opening for the pipeline. As such, the bid opening has been postponed indefinitely and will be reestablished if additional funds are approved.
6. There is an immediate need for a construction funding increase in the amount of \$2,060,351 in order to open bids for the pipeline contract. If these funds are approved by the Task Force, then additional funds for the marsh creation construction contract will be requested after the pipeline contract has been awarded, in the event the award is less than the maximum awardable reasonable construction contract cost, and after an updated government estimate is provided for the marsh creation contract. We anticipate that the maximum total construction budget increase for both the pipeline and the marsh creation contract will be \$5,000,000.

7. The requested \$5,000,000 construction budget increase would increase the approved fully funded estimate for Cycle 2 from \$11,583,553 to \$16,583,553. The requested \$2,060,351 funding increase would increase the approved project funded estimate from \$11,583,553 to \$13,643,904.
8. The \$5,000,000 budget increase would increase the cost per acre (i.e., reduce the cost effectiveness) for Cycle 2 from \$50,363/acre to \$72,102/acre. However, since the pipeline is also intended to be used for Cycles 4 and 5, the long-term cost effectiveness for Cycles 2, 4, and 5, as illustrated below, is estimated to be \$32,388/acre.

| Sabine MC | Acres Created | Current Fully Funded Cost Estimate | Current Cost Effectiveness | Proposed Revised Fully Funded Estimate | Proposed Revised Cost Effectiveness |
|-----------|---------------|------------------------------------|----------------------------|--|-------------------------------------|
| Cycle 2 | 230 | \$11,583,553 | \$50,363 | \$16,583,553 | \$72,102 |
| Cycle 4 | 230 | \$3,630,831 | \$15,786 | \$3,630,831 | \$15,786 |
| Cycle 5 | 230 | \$2,133,439 | \$9,275 | \$2,133,439 | \$9,275 |
| Average | 230 | \$5,786,607 | \$25,142 | \$7,449,274 | \$32,388 |

9. Please note that this project does not have any maintenance requirements.

10. POC, Fay V. Lachney, ext. 2309.



Melanie Goodman, Senior Project Manager
Restoration Branch

Lachney, Fay V MVN

From: Goodman, Melanie L MVN
Sent: Thursday, May 29, 2008 11:12 AM
To: 'Robert_Dubois@fws.gov'
Cc: 'Darrell Pontiff'; Lachney, Fay V MVN; Browning, Gay B MVN; Creel, Travis J MVN; Gallagher, Anne E MVN-Contractor
Subject: FW: CWPPRA Sabine Refuge Marsh Creation Construction Cost Increase
Attachments: DRAFT MEMO FOR SABINE CONSTRUCTION FUNDING INCREASE.doc



DRAFT MEMO FOR
SABINE CONSTRUC..

Thanks Robert, once we get concurrence from DNR we will request the Fax
Vote...

-----Original Message-----

From: Robert_Dubois@fws.gov [mailto:Robert_Dubois@fws.gov]
Sent: Thursday, May 29, 2008 11:01 AM
To: Goodman, Melanie L MVN
Subject: RE: CWPPRA Sabine Refuge Marsh Creation Construction Cost Increase

Melanie,

As the cosponsor for the Sabine Refuge Marsh Creation Project the FWS concurs with the request for \$2,060,351 in order to certify that we have the capability to award a contract for the pipeline.

Thanks for the time you dedicated to this problem.

Robert T. Dubois
Fish and Wildlife Biologist
Ecological Services
646 Cajundome Blvd., Suite 400
Lafayette, LA 70506
Work - 337-291-3127
Fax - 337-291-3139

"Goodman, Melanie
L MVN"
<Melanie.L.Goodman@usace.army.mil>

05/28/2008 04:13
PM

To
<Robert_Dubois@fws.gov>, "Darrell
Pontiff" <Darrell.Pontiff@LA.GOV>

cc

"Lachney, Fay V MVN"
<Fay.V.Lachney@usace.army.mil>
Subject

RE: CWPPRA Sabine Refuge Marsh
Creation Construction Cost Increase

Lachney, Fay V MVN

From: Darrell Pontiff [Darrell.Pontiff@LA.GOV]
Sent: Monday, June 09, 2008 8:55 AM
To: Lachney, Fay V MVN
Subject: Sabine Refuge CS-28

Fay:

FYI as discussed earlier today. Please call if you have any questions or need additional information.

Thanks,

Darrell J. Pontiff, P.E.
Engineer 4
Louisiana Department of Natural Resources Coastal Engineering Division Lafayette Field Office
635 Cajundome Blvd.
P.O. Box 62027
Ph. (337) 482-0683 Fax (337) 482-0685
email: darrell.pontiff@la.gov

-----Original Message-----

From: Chris Knotts
Sent: Tuesday, June 03, 2008 5:46 PM
To: Darrell Pontiff
Cc: Patrick Landry; David Burkholder
Subject: FW:

FYI

-----Original Message-----

From: Norwyn Johnson
Sent: Tuesday, June 03, 2008 4:50 PM
To: Garret Graves; Chris Knotts
Cc: David Fruge
Subject: RE:

Garret - Recommend you give the nod if required at the Task Force meeting. While we do not have anything in the FY 2008 Annual Plan or the FY 2009 Annual Plan relative to this specific project because it was approved from an earlier PPL list, we can accommodate the expenditure. We have several unspent budgeted categories in the FY 2008 Annual Plan that can be used for this activity. Also, if we wait a month, the FY 2009 Annual Plan has a Reserve Fund Contingencies category that can be used for the needed \$750,000. Thanks.

Norwyn

-----Original Message-----

From: Garret Graves
Sent: Tuesday, June 03, 2008 3:14 PM
To: Chris Knotts
Cc: Norwyn Johnson; David Fruge
Subject: Re:

I may need to give a nod at the task force mtg tomorrow. Guidance?

----- Original Message -----

From: Chris Knotts
To: Garret Graves
Cc: Norwyn Johnson; David Fruge
Sent: Tue Jun 03 15:12:18 2008
Subject: RE:

The immediate need is \$2.06M, but the total project increase is \$5.0M. I received the memo on Friday from the Lafayette Field Office. Per discussions with Dave Fruge and Gerry this afternoon, DNR is in concurrence, but need to check the annual plan to make sure we can foot the additional \$750K required in the CWPPRA cost share budget category.

Norwyn: Please shed some light on this issue.

-----Original Message-----

From: Garret Graves

Sent: Tuesday, June 03, 2008 3:08 PM

To: Chris Knotts

Subject:

Chris,

CWPPRA needs an additional \$2.060M on Sabine Marsh creation project this FY. Apparently, CWPPRA is awaiting an answer from the state on this. You have any clue here?

Sabine Refuge Marsh Creation Project (CS-28-2)

Project Status:

Approved Date: 2004 **Project Area:** 5,776 acres (all 5 cycles)

Cost: \$11,583,553

Net Benefit After 20 years: 230 acres

Status: Construction

Project Type: Marsh creation

Location:

Region 4, Cameron Parish, The project is located on the Sabine National Wildlife Refuge, west of Highway 27, in large open waters areas northeast of Brown's Lake.

Problem: The project area is experiencing marsh degradation due to saltwater intrusion and freshwater loss. This has resulted in the conversion of vegetated intermediate marsh to large shallow open water areas. Salinity migrates into the region from the Calcasieu River. Southeast winds push saline waters into the project area through canals and bayous. Wind driven waves cause further loss of the remaining marsh fringe.

Restoration Strategy:

This project consists of the creation of 230 acres of marsh using material dredged (approximately 850,000 cubic yards) from the Calcasieu River Ship Channel. The dredged material will be contained by earthen dikes. Lower level earthen overflow weirs will be constructed to assist in the dewatering of the marsh creation disposal area and to create fringe marsh. The dredged slurry will be placed between elevations 2.71 NAVD 88 and 3.05 NAVD 88. A permanent dredged material disposal pipeline, measuring 3.57 miles in length, will be constructed as part of Cycle II. The pipeline will commence near Mile 13.2 of the Calcasieu River Ship Channel and terminate at the northeastern corner of the Sabine National Wildlife Refuge. Much of the right of way required for the pipeline was previously impacted by the construction of a temporary pipeline used during the construction of Cycle I. The pipeline will remain in place once Cycle II is completed and is anticipated to be used again for future marsh creation projects.

Progress to Date:

The Sabine Refuge Marsh Creation Project was originally approved as part of the Project Priority List 8 in 1999. The project was later broken into 5 cycles. In 2004, additional funds for engineering and design and construction were approved for Cycle II. Engineering and design of the pipeline is complete. The easternmost containment dike was constructed during the construction of Cycle III to help reduce saltwater intrusion within the project area. Acquisition of the pipeline corridor was interrupted by Hurricanes Rita and Katrina. Negotiations were restarted in 2006. Right of Entry for Construction was awarded in March 2008. The contract for the pipeline is anticipated to be awarded by the end of June 2008. Construction of the pipeline is scheduled to be

completed by the end of 2008 with dredging and placement of disposal material commencing in January 2009.

Agencies:

U.S. Army Corps of Engineers

U.S Fish and Wildlife Service

Louisiana Department of Natural Resources

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

TECHNICAL COMMITTEE MEETING

October 9, 2008

**TASK FORCE FAX VOTE REQUEST FOR CHANGE IN SCOPE FOR THE
PPL 14 - EAST MARSH ISLAND MARSH CREATION PROJECT (TV-21)**

For Report:

The U.S. Environmental Protection Agency (EPA), U.S. Natural Resources Conservation Service (NRCS) and Louisiana Coastal Protection and Restoration Authority (LACPRA) requested Technical Committee recommendation for Task Force fax vote approval for a change in scope for the TV-21 project due to estimated construction cost increases exceeding 25% over those originally authorized in 2005. Project features have also changed from creating approximately 189 acres of marsh and nourishing an additional 189 acres, to creating approximately 165 acres of marsh and nourishing an additional 197 acres. The Task Force approved the requested change in scope by fax vote.



DEPARTMENT OF THE ARMY

NEW ORLEANS DISTRICT, CORPS OF ENGINEERS

P.O. BOX 60267

NEW ORLEANS, LOUISIANA 70160-0267

REPLY TO
ATTENTION OF:

19 SEP 2008

CEMVN-PM-OR

MEMORANDUM FOR Louisiana Coastal Wetlands Conservation and Restoration Task Force

SUBJECT: Request for Task Force Fax Vote to approve a change in project scope for the PPL14-East Marsh Island Marsh Creation Project (TV-21)

1. The U.S. Environmental Protection Agency (EPA), U.S. Natural Resources Conservation Service (NRCS), and Louisiana Coastal Protection and Restoration Authority (CPRA) have requested a change in project scope for the PPL 14-East Marsh Island Marsh Creation Project (TV-21). The proposed change in project scope would reduce the acres of marsh creation from 189 acres to 165 acres and increase the acres of marsh nourishment from 189 acres to 197 acres. The estimated fully funded project cost has increased by 25.4%, from \$14,705,869 to \$18,441,688. The Technical Committee has recommended approval of this request by email. On behalf of the EPA, NRCS, and CPRA, I request a Task Force fax vote (in accordance with the Standard Operating Procedures, Revision 14, page 20) on the following motion to approve the Technical Committee's recommended change in project scope:

The CWPPRA Task Force approves the request for a change in scope for the PPL 14-East Marsh Island Marsh Creation Project (TV-21), which includes reducing the acres of marsh creation from 189 acres to 165 acres, increasing the acres of marsh nourishment from 189 acres to 197 acres, and increasing the estimated fully funded project cost by 25.4%, from \$14,705,869.00 to \$18,441,688.00.

2. We have included a copy of correspondence from the EPA, NRCS, and CPRA requesting the change in project scope (Encl 1). Please use the enclosed Facsimile Transmittal form to submit your vote (Encl 2). Please fax your completed form to the U.S. Army Corps of Engineers at (504) 862-1892, or email a scanned copy to Melanie.L.Goodman@mvn02.usace.army.mil by Wednesday, 24 September 2008.

3. If you have any questions concerning this request, please contact Ms. Melanie L. Goodman, CWPPRA Program Manager, at (504) 862-1940.

2 Encls

1. EPA/NRCS/LACPRA Fax Vote request and supporting information
2. Fax Vote Form

ALVIN B. LEE
Colonel, EN
Commanding

• CEMVN-PM-OR

SUBJECT: Recommendation to approve change in project scope for the PPL 14 -East Marsh Island Marsh Creation Project (TV-21)

CF via email (w/encl):

Mr. Garret Graves, LA Office of the Governor

Mr. William Honker, U.S. Environmental Protection Agency

Mr. Jim Boggs, U.S. Fish and Wildlife Service

Mr. Kevin Norton, U.S. Natural Resources Conservation Service

Mr. Chris Doley, National Oceanic and Atmosphere Administration

Mr. Kirk Rhinehart, LA Department of Natural Resources

Ms. Sharon Parrish, U.S. Environmental Protection Agency

Mr. Darryl Clark, U.S. Fish and Wildlife Service

Mr. Britt Paul, U.S. Natural Resource Conservation Service

Mr. Rick Hartman, National Marine and Fisheries Service

FACSIMILE TRANSMITTAL HEADER SHEET

| Agency | NAME/OFFICE SYMBOL | OFFICE TELEPHONE NO. | OFFICE FAX NO. |
|------------------------|--|------------------------------------|---|
| FROM NOAA Fisheries | Christopher Doley | (301) 713-0174 | (301) 713-0184 |
| TO USACE | Melanie L. Goodman Acting Program Manager | (504) 862-1940 | (504) 862-1892 |
| Classification | Precedence | No. Pages Including Header 1 | Date/time 9/24/2008 |
| | | | Releaser's Signature Melanie Goodman |

REMARKS:

The Motion:

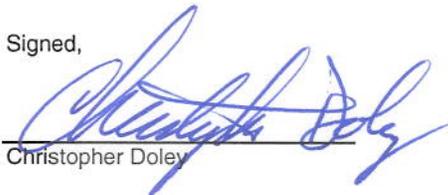
The CWPPRA Task Force approves the request for a change in scope for the PPL 14-East Marsh Island Marsh Creation Project (TV-21), which includes reducing the acres of marsh creation from 189 acres to 165 acres, increasing the acres of marsh nourishment from 189 acres to 197 acres, and increasing the estimated fully funded project cost by 25.4%, from \$14,705,869.00 to \$18,441,688.00.

Please check one of the following:

I approve the motion as stated above.

I do NOT approve the motion as stated above.

Signed,



 Christopher Doley



 9/22/2008

FACSIMILE TRANSMITTAL HEADER SHEET

| Agency | | NAME/OFFICE SYMBOL | | OFFICE TELEPHONE NO. | OFFICE FAX NO. |
|----------------|------------|---|-----------|----------------------|----------------|
| FROM | | | | | |
| U.S. EPA | | Bill Honker | | 214-665-3187 | 214-665-7373 |
| TO | | | | | |
| USACE | | Melanie L. Goodman Acting Program Manager. | | (504) 862-1940 | (504) 862-1892 |
| Classification | Precedence | No. Pages Including Header | Date/Time | Releaser's Signature | |
| | | 1 | 9/24/2008 | Melanie Goodman | |

REMARKS:

The Motion:

The CWPPRA Task Force approves the request for a change in scope for the PPL 14-East Marsh Island Marsh Creation Project (TV-21), which includes reducing the acres of marsh creation from 189 acres to 165 acres, increasing the acres of marsh nourishment from 189 acres to 197 acres, and increasing the estimated fully funded project cost by 25.4%, from \$14,705,869.00 to \$18,441,688.00.

Please check one of the following:

I approve the motion as stated above.

I do NOT approve the motion as stated above.

Signed,

WK Honker
Task Force Member Name

9/22/08
Date

FACSIMILE TRANSMITTAL HEADER SHEET

| Agency | NAME/OFFICE SYMBOL | OFFICE TELEPHONE NO. | OFFICE FAX NO. |
|------------------|--|-------------------------------|---|
| FROM NRCS | KEVIN D. NORTON | 318-473-7751 | 318-473-7626 |
| TO USACE | Melanie L. Goodman Acting Program Manager | (504) 862-1940 | (504) 862-1892 |
| Classification | Precedence | No. Pages Including Header | Date/time |
| | | 1 | 9/19/2008 |
| | | | Releaser's Signature Melanie Goodman |

REMARKS:

The Motion:

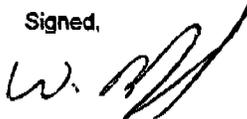
The CWPPRA Task Force approves the request for a change in scope for the PPL 14-East Marsh Island Marsh Creation Project (TV-21), which includes reducing the acres of marsh creation from 189 acres to 165 acres, increasing the acres of marsh nourishment from 189 acres to 197 acres, and increasing the estimated fully funded project cost by 25.4%, from \$14,705,869.00 to \$18,441,688.00.

Please check one of the following:

I approve the motion as stated above.

I do NOT approve the motion as stated above.

Signed,



W. Britt Paul, ASTC, "acting for"
Kevin D. Norton, STC

9/19/2008

FACSIMILE TRANSMITTAL HEADER SHEET

| Agency | NAME/OFFICE SYMBOL | OFFICE TELEPHONE NO. | OFFICE FAX NO. |
|-------------------|--|--------------------------------------|------------------------|
| FROM USFWS | Jim Boggs | (337) 291-3115 | (337) 291-3139 |
| TO USACE | Melanie L. Goodman Acting Program Manager | (504) 862-1940 | (504) 862-1892 |
| Classification | Precedence | No. Pages <i>Including Header</i> | Date/time |
| | | 1 | 9/24/2008 |
| | | Releaser's Signature | |
| | | Melanie Goodman | |

REMARKS:

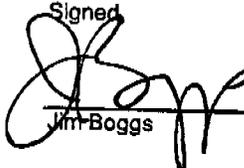
The Motion:

The CWPPRA Task Force approves the request for a change in scope for the PPL 14-East Marsh Island Marsh Creation Project (TV-21), which includes reducing the acres of marsh creation from 189 acres to 165 acres, increasing the acres of marsh nourishment from 189 acres to 197 acres, and increasing the estimated fully funded project cost by 25.4%, from \$14,705,869.00 to \$18,441,688.00.

Please check one of the following:

I approve the motion as stated above.

I do NOT approve the motion as stated above.

Signed

 Jim Boggs

9/19/08
 Date

Gallagher, Anne E MVN-Contractor

From: Enger Kinchen [Enger.Kinchen@GOV.STATE.LA.US]
Sent: Friday, September 19, 2008 3:05 PM
To: Gallagher, Anne E MVN-Contractor
Subject: RE: CWPPRA FAX VOTE: PPL 14 -East Marsh Island Marsh Creation Project (TV-21)

Anne,

Garret asked me to respond on his behalf: "The state supports the request."

-----Original Message-----

From: Gallagher, Anne E MVN-Contractor [mailto:Anne.E.Gallagher@usace.army.mil]
Sent: Friday, September 19, 2008 11:59 AM
To: bill honker; britt.paul@la.usda.gov; Browning, Gay B MVN; Cece Linder; Chris Doley; Constance, Troy G MVN; darryl_clark@fws.gov; Dr. John Foret; Enger Kinchen; Gallagher, Anne E MVN-Contractor; garret graves; Garret Graves; Goodman, Melanie L MVN; gsteyer@usgs.gov; Gunter, Jackie P MVN; Habbaz, Sandra P MVN; Harrel Hay; Hawes, Suzanne R MVN; Holden, Thomas A MVN; jim boggs; kevin norton; Kevin Roy; Kirk Rhinehart; Lachin, Donna A MVN; Lee, Alvin B COL MVN; Podany, Thomas J MVN; rick hartman; Scott Wilson; sharon parrish; Tim Landers; Wittkamp, Carol MVN; Amelia_vincent@ursCorp.com; Billy Hicks; Bren Haase; Charles Killebrew; comvss@lsu.edu; Creel, Travis J MVN; H. Finley; Hennington, Susan M MVN; Jack Arnold; Jerome Zeringue; John Petitbon; john.jurgensen@la.usda.gov; Kelley Templet; Lachney, Fay V MVN; Miller, Gregory B MVN; rachel.sweeney@noaa.gov; Renee Sanders; Taylor.Patricia-A@epamail.epa.gov; Daniel Llewellyn; jenneke visser; ruiz_mj@wlf.state.la.us
Subject: CWPPRA FAX VOTE: PPL 14 -East Marsh Island Marsh Creation Project (TV-21)
Importance: High

Task Force Members,

Please see the attached memorandum from the Chairman of the Task Force requesting a fax vote for recommendation to approve change in project scope for the PPL 14 -East Marsh Island Marsh Creation Project (TV-21).

Also included below is a correspondence from the EPA, NRCS and LACPRA requesting the change in project scope and supporting information (Encl 1) and a Facsimile Transmittal form to submit your vote (Encl 2).

Please fax your completed form to the US Army Corps of Engineers at (504) 862-1892 or email a scanned copy to Anne Gallagher (anne.e.gallagher@usace.army.mil) or Melanie Goodman (Melanie.L.Goodman@mvn02.usace.army.mil) by Wednesday, 24 September 2008 or ASAP.

Thanks!

<<ENCL 2 (TV-21).xls>> <<Rescope Request.pdf>> <<rescope presentation Ver 2.pdf>>
Anne E. Gallagher
CWPPRA Contractor
USACE New Orleans, LA
504.862.2032
504.862.1892 (fax)



Chris Williams
<Chris.Williams@LA.GOV>
09/16/2008 09:03 AM

To Timothy Landers/R6/USEPA/US@EPA
cc Kirk Rhinehart <Kirk.Rhinehart@LA.GOV>, Brad Miller
<Brad.Miller@LA.GOV>, Melanie
Magee/R6/USEPA/US@EPA
bcc

Subject RE: EMI 30% Letter of Concurrence

Thanks Tim

The State, as the local sponsor, is also in agreement that the project does have merit and should progress to final design.

Chris Williams, P.E.
Administrator, Project Management Branch
LA CPRA OCPD
225-342-7549

-----Original Message-----

From: Landers.Timothy@epamail.epa.gov [mailto:Landers.Timothy@epamail.epa.gov]
Sent: Wednesday, September 10, 2008 2:50 PM
To: Chris Williams
Cc: Kirk Rhinehart; Brad Miller; Magee.Melanie@epamail.epa.gov
Subject: EMI 30% Letter of Concurrence

Chris:

As you know we recently completed the 30% Engineering and Design (E&D) review as required by the Coastal Wetlands Planning, Protection and Restoration Act (CWPPRA) Standard Operating Procedures (SOP). The 30% E&D review meeting was held on August 26, 2008. While there were a few issues noted as a result of that effort, we have concluded that the project is still viable and recommend that the project move forward to 95% E&D.

Section 6(e)(2) of the CWPPRA SOP states, "After the conference, the Federal Sponsor shall forward a letter (or email) to the Technical Committee with a copy to the Planning and Evaluation Subcommittee along with the revised estimate, a description of project revisions from the previously authorized project, and a letter of concurrence from the Local Sponsor, informing them of the agreement to continue with the project." We look forward to your official concurrence in completing this requirement of the SOP.

We will continue to work with your staff in providing the required information to the Technical Committee and Task Force in preparation for our Phase 2 authorization request. If you have any questions or need additional information about the TV-21 project, please feel free to contact me.

Tim Landers
U.S. Environmental Protection Agency, Region 6
Chief, Marine & Coastal Section (6WQ-EC)
Water Quality Protection Division
1445 Ross Avenue
Dallas, Texas 75202-2733
TEL (214) 665-6608
FAX (214) 665-6689



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

SEP 16 2008

Mr. Thomas A. Holden Jr., P.E.
Chairman
CWPPRA Technical Committee
U.S. Army Corps of Engineers
New Orleans District
P.O. Box 60267
New Orleans, LA 70160-0267

Dear Mr. Holden:

The U.S. Environmental Protection Agency (EPA), Natural Resources Conservation Service (NRCS) and the Louisiana Coastal Protection and Restoration Authority (LA CPRA) are requesting initiation of fax vote procedures by both the Technical Committee and Task Force for a change in scope for the East Marsh Island Marsh Creation Project (TV-21). The project was authorized for Phase One (Engineering and Design) in July 2005 for a total fully funded cost of \$16.8 M. In working to prepare for the 30% Design Review meeting, held on August 26, 2008, we have determined that the preliminary construction cost estimate for the TV-21 project exceeds the original authorized construction estimate by just over 25%. Therefore, I would like to take this opportunity to report out to the agencies, pursuant to Section 6(e)(3) of the CWPPRA SOP, the details of the change in scope for this project.

As outlined in the 30% Design Report, the TV-21 project entails using sediment from East Cote Blanche Bay to create approximately 165 acres of marsh and nourish an additional 197 acres on East Marsh Island. Additionally, an earthen plug design feature was added to help prevent tidal scour. After construction, the containment dikes will be degraded and the project area will be planted with native vegetation.

In 2005, the original authorized cost estimate plus contingency was determined to be \$14.7 M and the current estimated preliminary construction cost estimate is approximately \$18.4 M. Project cost increases for the TV-21 project can be attributed to a number of factors. These include higher project costs primarily due to increases for mobilization/demobilization and other general cost increases since 2005.

The project benefits have been re-evaluated by the Environmental Workgroup and have changed only slightly since the initial estimate. The construction template has also changed to restore areas affected by hurricane damage. In comparing the original and current Wetland Value Assessment figures, the reduction in net acres benefited is estimated to be approximately 10%.

This project plays an important role in helping to stabilize an area that has historically been impacted by significant land loss effects. The change in scope for the TV-21 project is fully

consistent with ongoing interagency efforts to more effectively manage Louisiana and Gulf coast sediment resources and has the full support of the Louisiana Department of Wildlife and Fisheries, who own and manage East Marsh Island. If the CWPPRA Technical Committee concurs, we recommend this issue be put before the Task Force for a fax vote at your earliest convenience. I appreciate your consideration of this project scope change. If you have any questions, please do not hesitate to contact me at 214-665-6608.

Sincerely Yours,



Tim Landers
Chief
Marine and Coastal Section

Enclosures

Cc: Mr. Mike Carloss, LDWF
Mr. Britt Paul, NRCS
Mr. Kirk Rhinehart, LA CPRA

**EAST MARSH ISLAND
MARSH CREATION PROJECT
TV-21**

**Project Scope Change Request
September 2008**



TV-21 PROJECT BACKGROUND

- Phase 1 funding approved by CWPPRA Task Force in July 2005 as part of PPL 14
- Project Kickoff Meeting/Field Trip conducted in June 2006
- Successful 30% Design Review Meeting held August 2008; 95% Design Review pending
- Phase 2 construction request anticipated in 2008

TV-21 PROJECT PURPOSE

- **Goals** - To create 165 acres of marsh and nourish an additional 197 acres, all within the project boundary. This will reinforce the northeast tip of the island and prevent future breaches or excess tidal scour.
- **Proposed Solution** - Sediment will be dredged from East Cote Blanche Bay, placed within the project boundary, and planted with vegetation. An earthen plug will also be constructed to prevent excess tidal scour.

Original PPL 14 project: 189 acres marsh creation and 189 acres of marsh nourishment



Current project: 165 acres marsh creation and 197 acres of marsh nourishment



PRELIMINARY CONSTRUCTION COST ESTIMATE

| PRELIMINARY CONSTRUCTION COST ESTIMATE | | | | | |
|--|-----------------------------|-----------|------|--|---------------------|
| Item No. | Work or Material | Quantity | Unit | Unit Cost | Amount |
| 1 | Mobilization/Demobilization | 1 | LS | \$3,000,000 | \$3,000,000 |
| 2 | Surveying | 1 | LS | \$175,000 | \$175,000 |
| 3 | Containment Dikes | 24,000 | LF | \$20 | \$480,000 |
| 4 | Earthen Plug | 635 | LF | \$85 | \$53,975 |
| 5 | Marsh Creation | 2,750,000 | CY | \$3.75 | \$10,312,500 |
| 6 | Settlement Plates | 4 | EA | \$2,500 | \$10,000 |
| 7 | Vegetative Plantings | 165 | AC | \$4,375 | \$721,875 |
| | | | | Subtotal = | \$14,753,350 |
| | | | | Contingency (25% x Subtotal) = | \$3,688,338 |
| | | | | TOTAL ESTIMATED CONSTRUCTION COST = | \$18,441,688 |

TV-21 Preliminary Construction Cost Estimates

| Preliminary Construction Cost Estimate (30% Design) | | | | | | PPL 14 Cost Estimate* |
|--|---------------------------------|-----------|------|-------------|--------------|-----------------------------|
| Item No. | Work or Material | Quantity | Unit | Unit Cost | Amount | Amount |
| 1 | Mobilization/ Demobilization | 1 | LS | \$3,000,000 | \$3,000,000 | \$350,000 |
| 2 | Surveying | 1 | LS | \$175,000 | \$175,000 | 0 |
| 3 | Containment Dikes | 24,000 | LF | \$20 | \$480,000 | \$348,000 |
| 4 | Earthen Plug | 635 | LF | \$85 | \$53,975 | 0 |
| 5 | Marsh Creation | 2,750,000 | CY | \$3.75 | \$10,312,500 | \$9,531,896 |
| 6 | Settlement Plates | 4 | EA | \$2,500 | \$10,000 | 0 |
| 7 | Vegetative Plantings | 165 | AC | \$4,375 | \$721,875 | \$658,000 |

*From PPL 14 Construction Cost Estimate developed 6-Oct-04

PROJECT SUMMARY

| TV-21 Project | Features | Project Area | AAHUs | Net Acres | Estimated Construct. + Contingency |
|---------------|---|--------------|-------|-----------|--|
| Phase 0 | 189 ac marsh creation 189 ac marsh nourishment | 378 acres | 117 | 189 | \$14,705,869* |
| Phase 1 | 165 ac marsh creation 197 ac marsh Nourishment | 362 acres | 107 | 169 | \$18,441,688 <i>(1.254 of original)</i> |

* 2005 Authorized Construction Cost Estimate Plus Contingency

Points of Contact

Melanie Magee

EPA

214-665-7161

Brad Miller

CPRA

225-342-4122

QUESTIONS?



Photo Courtesy of LDWF

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

TECHNICAL COMMITTEE MEETING

October 9, 2008

**FY09 PLANNING BUDGET APPROVAL, INCLUDING PPL19 PROCESS, AND
PRESENTATION OF FY09 OUTREACH BUDGET**

For Decision:

- a.** The Planning and Evaluation Subcommittee (P&E) is recommending that the PPL 19 Planning Process Standard Operating Procedures include selecting three nominees in the Barataria, Terrebonne, and Pontchartrain Basins, and two nominees in all other basins, except Atchafalaya where only one nominee would be selected. If only one project is presented at the Regional Planning Team meeting for the Mississippi River Delta Basin, then an additional nominee would be selected for the Breton Sound Basin.
- b.** The P&E will recommend the FY09 Planning Budget in the amount of \$4,930,325 (excluding supplemental tasks for evaluating project estimates). The Technical Committee will vote on making a recommendation to the Task Force to approve the FY09 Planning Budget.
- c.** The CWPPRA Outreach Committee will present the draft FY09 Outreach Committee Budget in the amount of \$516,310 to the Technical Committee for coordination and discussion purposes only. The outreach budget will be recommended to the Task Force on November 5, 2008 by the Outreach Committee.

APPENDIX A

PRIORITY LIST 19 SELECTION PROCESS

Coastal Wetlands Planning, Protection and Restoration Act Guidelines for Development of the 19th Priority Project List DRAFT

I. Development of Supporting Information

A. COE staff prepares spreadsheets indicating status of all restoration projects (CWPPRA PL 1-18; Louisiana Coastal Area (LCA) Feasibility Study, Corps of Engineers Continuing Authorities 1135, 204, 206; and State only projects). Also, indicate net acres at the end of 20 years for each CWPPRA project.

B. DNR/USGS staff prepares basin maps indicating:

- 1) Boundaries of the following projects types (PL 1-18; LCA Feasibility Study, COE 1135, 204, 206; and State only).
- 2) Locations of completed projects,
- 3) Projected land loss by 2050 with freshwater diversions at Caernarvon and Davis Pond and including all CWPPRA projects approved for construction through January 2009.
- 4) Regional boundary maps with basin boundaries and parish boundaries included.

II. Areas of Need and Project Nominations

A. The four Regional Planning Teams (RPTs) meet, examine basin maps, discuss areas of need and Coast 2050 strategies, and accept nomination of projects by hydrologic basin. Nominations for demonstration projects will also be accepted at the four RPT meetings. The RPTs will not vote at their individual regional meetings, rather voting will be conducted during a separate coast-wide meeting. At these initial RPT meetings, parishes will be asked to identify their official parish representative who will vote at the coast-wide RPT meeting.

B. One coast-wide RPT voting meeting will be held after the individual RPT meetings to vote for nominees (including demonstration project nominees). The RPTs will select three projects in the Terrebonne, Barataria, and Pontchartrain Basins based on the high loss rates (1985-2006) in those basins. Two projects will be selected in the Breton Sound, Teche/Vermilion, Mermentau, Calcasieu/Sabine, and Mississippi River Delta Basins. Because of low land loss rates, only one project will be selected in the Atchafalaya Basin. If only one project is presented at the Regional Planning Team

Meeting for the Mississippi River Delta Basin, then an additional nominee would be selected for the Breton Sound Basin. A total of up to 20 projects could be selected as nominees. Each officially designated parish representative in the basin will have one vote and each federal agency and the State will have one vote. The RPTs will also select up to six demonstration project nominees at this coast-wide meeting. Selection of demonstration project nominees will be by consensus, if possible. If voting is required, officially designated representatives from all coastal parishes will have one vote and each federal agency and the State will have one vote.

C. Prior to the coast-wide RPT voting meeting, the Environmental and Engineering Work Groups will screen each demonstration project nominated at the RPT meetings. Demonstration projects will be screened to ensure that each meets the qualifications for demonstration projects as set forth in Appendix E.

D. A lead Federal agency will be designated for the nominees and demonstration project nominees to assist LDNR and local governments in preparing preliminary project support information (fact sheet, maps, and potential designs and benefits). The Regional Planning Team Leaders will then transmit this information to the P&E Subcommittee, Technical Committee and members of the Regional Planning Teams.

III. Preliminary Assessment of Nominated Projects

A. Agencies, parishes, landowners, and other individuals informally confer to further develop projects. Nominated projects should be developed to support one or more Coast 2050 strategies. The goals of each project should be consistent with those of Coast 2050.

B. Each sponsor of a nominated project will prepare a brief Project Description (no more than one page plus a map) that discusses possible features. Fact sheets will also be prepared for demonstration project nominees.

C. Engineering and Environmental Work Groups meet to review project features, discuss potential benefits, and estimate preliminary fully funded cost ranges for each project. The Work Groups will also review the nominated demonstration projects and verify that they meet the demonstration project criteria.

D. P&E Subcommittee prepares matrix of cost estimates and other pertinent information for nominees and demonstration project nominees and furnishes to Technical Committee and Coastal Protection and Restoration Authority (CPRA).

IV. Selection of Phase 0 Candidate Projects

A. Technical Committee meets to consider the project costs and potential wetland benefits of the nominees. Technical Committee will select ten candidate projects for detailed assessment by the Environmental, Engineering, and Economic Work Groups. At this time, the Technical Committee will also select up to three demonstration project candidates for detailed assessment by the Environmental, Engineering, and Economic Work Groups. Demonstration project candidates will be evaluated as outlined in Appendix E.

B. Technical Committee assigns a Federal sponsor for each project to develop preliminary Wetland Value Assessment data and engineering cost estimates for Phase 0 as described below.

V. Phase 0 Analysis of Candidate Projects

A. Sponsoring agency coordinates site visits for each project. A site visit is vital so each agency can see the conditions in the area and estimate the project area boundary. Field trip participation should be limited to two representatives from each agency. There will be no site visits conducted for demonstration projects.

B. Environmental and Engineering Work Groups and the Academic Advisory Group meet to refine project features and develop boundaries based on site visits.

C. Sponsoring agency develops Project Information Sheets on assigned projects, using formats developed by applicable work groups; prepares preliminary draft Wetland Value Assessment Project Information Sheet; and makes Phase 1 engineering and design cost estimates and Phase 2 construction cost estimates.

D. Environmental and Engineering Work Groups evaluate all projects (excluding demos) using the WVA and review design and cost estimates.

E. Engineering Work Group reviews and approves Phase 1 and 2 cost estimates.

F. Economics Work Group reviews cost estimates and develops annualized (fully funded) costs.

G. Environmental and Engineering Work Groups apply the Prioritization Criteria and develop prioritization scores for each candidate project.

H. Corps of Engineers staff prepares information package for Technical Committee and CPRA. Packages consist of:

- 1) updated Project Information Sheets;
- 2) a matrix for each region that lists projects, fully funded cost, average annual cost, Wetland Value Assessment results in net acres and Average Annual Habitat Units (AAHUs), cost effectiveness (average annual cost/AAHU), and the prioritization score.
- 3) qualitative discussion of supporting partnerships and public support;
and

I. Technical Committee hosts two public hearings to present information from H above and allows public comment.

VI. Selection of 19th Priority Project List

A. The selection of the 19th PPL will occur at the Winter Technical Committee and Task Force meetings.

B. Technical Committee meets and considers matrix, Project Information Sheets, and public comments. The Technical Committee will recommend up to four projects for selection to the 19th PPL. The Technical Committee may also recommend demonstration projects for the 19th PPL.

C. The CWPPRA Task Force will review the TC recommendations and determine which projects will receive Phase 1 funding for the 19th PPL.

19th Priority List Project Development Schedule (dates subject to change)

| | |
|--------------------------------|--|
| December 2008 | Distribute public announcement of PPL19 process and schedule |
| December 3, 2008 | Winter Technical Committee Meeting, approve Phase II (Baton Rouge) |
| January 21, 2009 | Winter Task Force Meeting (New Orleans) |
| January 26, 2009 | Region IV Planning Team Meeting (Rockefeller Refuge) |
| January 27, 2009 | Region III Planning Team Meeting (Morgan City) |
| January 28, 2009 | Regions I and II Planning Team Meetings (New Orleans) |
| February 18, 2009 | Coast-wide RPT Voting Meeting (Baton Rouge) |
| February 19- March 13, 2009 | Agencies prepare fact sheets for RPT-nominated projects |
| March 24-25, 2009 | Engineering/ Environmental work groups review project features, benefits & prepare preliminary cost estimates for nominated projects (Baton Rouge) |
| March 26, 2009 | P&E Subcommittee prepares matrix of nominated projects showing initial cost estimates and benefits |
| April 15, 2009 | Spring Technical Committee Meeting, select PPL19 candidate projects (New Orleans) |
| May/June/July | Candidate project site visits |
| June 3, 2009 | Spring Task Force Meeting (Lafayette) |
| July/August/ September | Env/Eng/Econ work group project evaluations |
| September 9, 2009 | Fall Technical Committee Meeting, O&M and Monitoring funding recommendations (Baton Rouge) |
| October 14, 2009 | Fall Task Force meeting, O&M and Monitoring approvals, announce PPL 19 public meetings (New Orleans) |
| October 14, 2009 | Economic, Engineering, and Environmental analyses completed for PPL19 candidates |
| November 17, 2009 | PPL 19 Public Meeting (Abbeville) |
| November 18, 2009 | PPL 19 Public Meeting (New Orleans) |
| December 2, 2009 | Winter Technical Committee Meeting, recommend PPL19 and Phase II approvals (New Orleans) |
| January 20, 2010 | Winter Task Force Meeting, select PPL19 and approve Phase II requests (New Orleans) |

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| TASK | | | | | CWPRA COSTS | | | | | | | | | | | | |
|-----------------------------------|----------|--|------------|----------|-----------------|------------------------|----------|----------|--------------|--------------------|--------------|--------------|--------------|---------------------------|------------------------|---------------|---------|
| Task Category | Task No. | Description | Duration | | Dept of Defense | Department of Interior | | | | State of Louisiana | | | EPA | Department of Agriculture | Department of Commerce | Other | Total |
| | | | Start Date | End Date | USACE | USFWS | NWRC | USGS BR | CPRA IT | LDWF | GOCA | EPA | NRCS | NMFS | | | |
| PPL 18 TASKS | | | | | | | | | | | | | | | | | |
| PL | 18600 | TF Selection and Funding of the 18th PPL (1 meeting) | 1/21/09 | 1/21/09 | 5,210 | 9,443 | | | | 3,702 | 1,502 | 1,600 | 3,582 | 6,092 | 9,465 | | 40,596 |
| PL | 18700 | PPL 18 Report Development | 2/18/09 | 7/31/09 | 45,632 | 2,621 | | | | 1,862 | | | 0 | 366 | 3,101 | | 53,582 |
| PL | 18800 | Corps Upward Submittal of the PPL 18 Report | 8/1/09 | 8/1/09 | 1,047 | | | | | | | | 0 | 0 | | | 1,047 |
| PL | 18900 | Corps Congressional Submission of the PPL 18 Report | 9/1/09 | 9/1/09 | 1,052 | | | | | | | | | 0 | | | 1,052 |
| FY09 Subtotal PPL 18 Tasks | | | | | 52,941 | 12,064 | 0 | 0 | 5,564 | 1,502 | 1,600 | 3,582 | 6,458 | 12,566 | 0 | 96,277 | |
| PPL 19 TASKS | | | | | | | | | | | | | | | | | |
| PL | 19200 | Development and Nomination of Projects | | | | | | | | | | | | | | | |
| PL | 19210 | DNR/USGS prepares base maps of project areas, location of completed projects and projected loss by 2050. Develop a comprehensive coastal LA map showing all water resource and restoration projects (C/WPPRA, state, WRDA projects, etc.) NWRC costs captured under SPE 18400. | 10/13/08 | 1/5/09 | 1,025 | | | | | 4,067 | | | 0 | 366 | 0 | | 5,458 |
| PL | 19220 | Sponsoring agencies prepare fact sheets (for projects and demos) and maps prior to and following RPT nomination meetings. | 10/13/08 | 2/15/09 | 58,883 | 32,765 | | | | 10,652 | | | 34,770 | 91,881 | 19,308 | | 248,259 |
| PL | 19230 | RPT's meet to formulate and combine projects. Each basin nominates no more than 2 project, with exception of 3 in Barataria and Terrebonne [20 nominees] and up to 6 demos (3 meetings) | 1/26/09 | 1/28/09 | 19,060 | 14,562 | | | | 10,548 | 4,506 | 3,000 | 6,828 | 11,320 | 13,438 | | 83,262 |
| PL | 19240 | RPT Voting meeting (20 nominees and up to 6 demos) | 2/18/09 | 2/18/09 | 5,247 | 2,621 | | | | 2,653 | 1,502 | 800 | 2,236 | 1,385 | 4,827 | | 21,271 |
| PL | 19300 | Ranking of Nominated Projects | | | | | | | | | | | | | | | |

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| TASK | | | | CWPRA COSTS | | | | | | | | | | | | | |
|-----------------------------------|--------------|---|------------|-------------|-----------------|------------------------|----------|----------|----------------|--------------------|---------------|----------------|----------------|---------------------------|------------------------|------------------|-------|
| Task Category | Task No. | Description | Duration | | Dept of Defense | Department of Interior | | | | State of Louisiana | | | EPA | Department of Agriculture | Department of Commerce | Other | Total |
| | | | Start Date | End Date | USACE | USFWS | NWRC | USGS BR | CPRA IT | LDWF | GOCA | EPA | NRCS | NMFS | | | |
| PL | 19320 | Engr Work Group prepares preliminary fully funded cost ranges for nominees. | 3/5/09 | 3/20/09 | 1,068 | 2,621 | | | 4,437 | | 1,500 | 4,228 | 6,747 | 4,827 | | 25,428 | |
| PL | 19330 | Environ/Engr Work Groups review nominees | 4/2/09 | 4/3/09 | 1,275 | 8,155 | | | 4,212 | 2,253 | 1,500 | 3,252 | 5,639 | 4,827 | | 31,113 | |
| PL | 19340 | WGs develop and P&E distributes project matrix | 4/1/09 | 4/1/09 | 1,348 | 2,330 | | | 2,658 | | | 2,820 | 198 | 4,827 | | 14,181 | |
| PL | 19350 | TC selection of PPL 19 candidates (10) and demo candidates (up to 3) | 4/15/09 | 4/15/09 | 2,348 | 2,621 | | | 2,847 | 2,253 | 500 | 3,216 | 3,270 | 4,827 | | 21,882 | |
| PL | 19400 | Analysis of Candidates | | | | | | | | | | | | | | | |
| PL | 19410 | Sponsoring agencies coordinate site visits for all projects | 5/1/09 | 7/15/09 | 35,449 | 21,479 | | | 17,391 | 13,518 | | 31,744 | 38,424 | 28,828 | | 186,833 | |
| PL | 19420 | Engr/Environ Work Group refine project features and determine boundaries | 5/1/09 | 9/30/09 | 8,132 | 16,382 | | | 9,321 | 13,518 | 2,000 | 5,204 | 7,716 | 10,337 | | 72,610 | |
| PL | 19430 | Sponsoring agencies develop project information for WVA; develop designs and cost estimates (projects and demos) | 5/1/09 | 9/30/09 | 36,504 | 38,225 | | | 37,992 | | | 39,984 | 59,116 | 51,640 | | 263,461 | |
| PL | 19440 | Environ/Engr Work Groups project-wetland benefits (with WVA) | 5/1/09 | 9/30/09 | 27,513 | 26,212 | | | 15,402 | 4,506 | 2,000 | 17,064 | 9,854 | 36,180 | | 138,731 | |
| PL | 19450 | Engr Work Group reviews/approves Ph 1 and Ph 2 cost estimates from sponsoring agencies, incl cost estimates for demos | 5/1/09 | 9/30/09 | 14,796 | 3,932 | | | 8,179 | | 1,000 | 10,358 | 4,058 | 14,481 | | 56,804 | |
| PL | 19460 | Economic Work Group reviews cost estimates, adds monitoring, O&M, etc., and develops annualized costs | 5/1/09 | 10/15/09 | 17,012 | 1,675 | | | 1,630 | | | 0 | 7,512 | 1,034 | | 28,863 | |
| PL | 19475 | Envr and Eng WG's prioritization of PPL 19 projects and demos | 5/1/09 | 10/15/09 | 4,208 | 8,155 | | | 5,870 | 2,253 | 1,000 | 4,228 | 8,116 | 4,827 | | 38,657 | |
| PL | 19480 | Prepare project information packages for P&E. | 5/1/09 | 11/10/09 | 7,534 | 7,645 | | | 2,483 | | | 1,952 | 178 | 4,827 | | 24,619 | |
| PL | 19485 | P&E holds 2 Public Meetings | 11/17/09 | 11/18/09 | 10,683 | 4,005 | | | 4,754 | 4,506 | 500 | 2,396 | 4,920 | 1,034 | | 32,798 | |
| PL | 19490 | TC Recommendation for Project Selection and Funding | 12/2/09 | 1/20/10 | 2,731 | 6,553 | | | 1,829 | 2,253 | 500 | 2,252 | 4,666 | 2,896 | | 23,680 | |
| FY09 Subtotal PPL 19 Tasks | | | | | 254,816 | 199,938 | 0 | 0 | 146,925 | 51,068 | 14,300 | 172,532 | 265,366 | 212,964 | 0 | 1,317,909 | |

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| TASK | | | | | CWPBRA COSTS | | | | | | | | | | | | |
|---|----------|--|------------|----------|------------------|------------------------|---------------|----------|----------------|--------------------|---------------|----------------|----------------|---------------------------|------------------------|------------------|-------|
| Task Category | Task No. | Description | Duration | | Dept of Defense | Department of Interior | | | | State of Louisiana | | | EPA | Department of Agriculture | Department of Commerce | Other | Total |
| | | | Start Date | End Date | USACE | USFWS | NWRC | USGS BR | CPRA IT | LDWF | GOCA | EPA | NRCS | NMFS | | | |
| Project and Program Management Tasks | | | | | | | | | | | | | | | | | |
| PM | 19100 | Program Management--Coordination | 10/1/08 | 9/30/09 | 469,653 | 92,469 | 27,986 | | 61,964 | 2,253 | 60,000 | 99,497 | 108,183 | 90,491 | | 1,012,496 | |
| PM | 19110 | Program Management--Correspondence | 10/1/08 | 9/30/09 | 43,368 | 27,240 | 7,900 | | 25,138 | 2,253 | | 29,921 | 42,607 | 47,033 | | 225,460 | |
| PM | 19120 | Prog Mgmt--Budget Development and Oversight | 10/1/08 | 9/30/09 | 68,175 | 16,382 | 6,711 | | 10,973 | 1,502 | 1,000 | 102,253 | 49,127 | 64,800 | | 320,923 | |
| PM | 19130 | Program and Project Management--Financial Management of Non-Cash Flow Projects | 10/1/08 | 9/30/09 | 67,013 | 10,557 | | | 17,718 | | | 0 | 18,083 | 33,779 | | 147,150 | |
| PM | 19200 | P&E Meetings (3 meetings preparation and attendance) | 10/1/08 | 9/30/09 | 19,348 | 9,443 | 4,924 | | 5,291 | 4,506 | 500 | 9,516 | 13,053 | 15,506 | | 82,087 | |
| PM | 19210 | Tech Com Mtngs (4 mtngs including three public and one off-site; prep and attend) | 10/1/08 | 9/30/09 | 133,007 | 29,124 | 7,516 | | 17,303 | 11,265 | 3,500 | 10,252 | 17,665 | 19,308 | | 248,940 | |
| PM | 19220 | Task Force mtngs (4 mtngs, including three public and one executive session; prep and attend) | 10/1/08 | 9/30/09 | 148,246 | 32,765 | 8,619 | | 24,151 | 9,012 | 7,000 | 17,378 | 29,095 | 41,160 | | 317,426 | |
| PM | 19400 | Agency Participation, Review 30% and 95% Design for Phase 1 Projects | 10/1/08 | 9/30/09 | 47,759 | 11,650 | | | 10,347 | 6,008 | 1,500 | 12,684 | 5,877 | 14,481 | | 110,306 | |
| PM | 19410 | Engineering & Environmental Work Groups review Phase II funding of approved Phase I projects (Needed for adequate review of Phase I.) [Assume 8 projects requesting Ph II funding in FY09. Assume 3 will require Eng or Env WG review; 2 labor days for each.] | 10/1/08 | 9/30/09 | 11,125 | 11,650 | | | 5,956 | 7,510 | 3,000 | 3,904 | 6,450 | 10,337 | | 59,932 | |
| PM | 19500 | Helicopter Support: Helicopter usage for the PPL process. | 10/1/08 | 9/30/09 | 0 | 25,085 | | | | | | | 0 | | | 25,085 | |
| PM | 19600 | Miscellaneous Technical Support | 10/1/08 | 9/30/09 | 139,893 | 9,829 | | | 81,406 | | 1,500 | 35,000 | 47,686 | 40,000 | | 355,314 | |
| FY09 Subtotal Project Management Tasks | | | | | 1,147,587 | 276,194 | 63,656 | 0 | 260,247 | 44,309 | 78,000 | 320,405 | 337,826 | 376,895 | 0 | 2,905,119 | |
| FY09 Total for PPL Tasks | | | | | 1,455,344 | 488,196 | 63,656 | 0 | 412,736 | 96,879 | 93,900 | 496,519 | 609,650 | 602,425 | 0 | 4,319,305 | |

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| TASK | | | | | CWPBRA COSTS | | | | | | | | | | | | |
|--|----------|---|------------|----------|------------------|------------------------|----------------|----------|----------------|--------------------|----------------|----------------|----------------|---------------------------|------------------------|------------------|----------------|
| Task Category | Task No. | Description | Duration | | Dept of Defense | Department of Interior | | | | State of Louisiana | | | EPA | Department of Agriculture | Department of Commerce | Other | Total |
| | | | Start Date | End Date | USACE | USFWS | NWRC | USGS BR | CPRA IT | LDWF | GOCA | EPA | NRCS | NMFS | | | |
| SUPPLEMENTAL PLANNING AND EVALUATION TASKS | | | | | | | | | | | | | | | | | |
| SPE | 19100 | Academic Advisory Group [NOTE: MOA between sponsoring agency and LUMCON available through FY19.] [Prospectus, page 6-7] | 10/1/08 | 9/30/09 | | | | | | | 0 | | | | | 112,200 | 112,200 |
| SPE | 19200 | Maintenance of web-based project reports and website project fact sheets. [NWRC Prospectus, pg 8] [Corps Prospectus, pg 9] [LDNR Prospectus, pg 10] | 10/1/08 | 9/30/09 | 4,218 | | 45,200 | | | 14,608 | | | | | | | 64,026 |
| SPE | 19300 | Prepare Evaluation Report to Congress NOTE: next update in FY 09 budget | 10/1/08 | 9/30/09 | 6,540 | 6,540 | 81,750 | | | 3,270 | | | 3,270 | 3,270 | 3,270 | 1,635 | 109,545 |
| SPE | 19400 | Core GIS Support for CWPBRA Task Force Planning Activities. [NWRC Prospectus, pg 11] [LDNR Prospectus, page 12] | 10/1/08 | 9/30/09 | | | 296,294 | | | 10,955 | | | | | | | 307,249 |
| SPE | 19510 | CWPBRA Program Capacity Evaluation Part I, Update Cost Estimates for Cash Flow Projects Not Approved for Construction | 10/1/08 | 9/30/09 | 0 | 0 | | | | 0 | | | 0 | 0 | 0 | | 0 |
| SPE | 19520 | CWPBRA Program Capacity Evaluation Part 2, Update Cost Estimates for Cash Flow Projects Approved or Otherwise Funded for Construction | 10/1/08 | 9/30/09 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| SPE | 19530 | CWPBRA Program Capacity Evaluation Part 3, Update O&M Cost Estimates for Constructed Projects | 10/1/08 | 9/30/09 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | 0 |
| SPE | 19600 | Report on The Gulf Intracoastal Waterway as a Distributary of Mississippi River Water to Coastal Louisiana Marshes | 10/1/08 | 9/30/09 | | | 18,000 | | | | | | | | | | 18,000 |
| FY09 Total Supplemental Planning & Evaluation Tasks | | | | | 10,758 | 6,540 | 441,244 | 0 | 28,833 | 0 | 0 | 3,270 | 3,270 | 3,270 | 113,835 | 611,020 | |
| FY09 Agency Tasks Grand Total | | | | | 1,466,102 | 494,736 | 504,900 | 0 | 441,569 | 96,879 | 93,900 | 499,789 | 612,920 | 605,695 | 113,835 | 4,930,325 | |
| Otrch | 19100 | Outreach - Committee Funding | 10/1/08 | 9/30/09 | | | | | | | | | | | | 443,910 | 443,910 |
| Otrch | 19200 | Outreach - Agency | 10/1/08 | 9/30/09 | 6,600 | 3,300 | 29,500 | | | 6,600 | | 6,600 | 6,600 | 6,600 | 6,600 | | 72,400 |
| FY09 Total Outreach | | | | | 6,600 | 3,300 | 29,500 | 0 | 6,600 | 0 | 6,600 | 6,600 | 6,600 | 6,600 | 6,600 | 443,910 | 516,310 |
| Grand Total FY09 | | | | | 1,472,702 | 498,036 | 534,400 | 0 | 448,169 | 96,879 | 100,500 | 506,389 | 619,520 | 612,295 | 557,745 | 5,446,635 | |
| Disallowances | | | | | | | | | | | | | | | | | |
| Proposed Revised Grand Total FY09 | | | | | 1,472,702 | 498,036 | 534,400 | 0 | 448,169 | 96,879 | 100,500 | 506,389 | 619,520 | 612,295 | 557,745 | 5,446,635 | |

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| | FY2006 Amount (\$) | FY2007 Amount (\$) | FY2008 Amount (\$) | FY2009 Amount (\$) |
|--|---------------------------|---------------------------|---------------------------|---------------------------|
| <u>General Planning & Program Participation [Supplemental Tasks Not Included]</u> | | | | |
| State of Louisiana | | | | |
| LDNR | 386,677 ³⁴ | 412,736 | 412,736 | 412,736 |
| LDWF | 73,598 | 96,879 | 96,879 | 96,879 |
| Gov's Ofc | 87,500 ³⁴ | 86,500 | 0 | 93,900 |
| Total State | <u>547,775</u> | <u>596,115</u> | <u>509,615</u> | <u>603,515</u> |
| EPA | 439,800 ³⁴ | 469,091 | 487,549 | 496,519 |
| Dept of the Interior | | | | |
| USFWS | 464,478 ³⁴ | 476,885 | 488,196 | 488,196 |
| NWRC | 137,071 ³⁴ | 63,656 | 63,656 | 63,656 |
| USGS Reston | | | | |
| USGS Baton Rouge | | | | |
| USGS Woods Hole | | | | |
| Natl Park Service | | | | |
| Total Interior | <u>601,549</u> | <u>540,541</u> | <u>551,852</u> | <u>551,852</u> |
| Dept of Agriculture | 590,937 ³⁴ | 596,400 | 597,504 | 609,650 |
| Dept of Commerce | 570,350 ³⁴ | 583,134 | 604,981 | 602,425 |
| Dept of the Army | 1,171,199 ³⁴ | 1,259,208 | 1,305,578 | 1,455,344 |
| Agencies Total | <u>\$3,921,610</u> | <u>\$4,044,489</u> | <u>\$4,057,079</u> | <u>\$4,319,305</u> |
| <u>Feasibility Studies Funding</u> | | | | |
| Barrier Shoreline Study | | | | |
| WAVCIS (DNR) | | | | |
| Study of Chenier Plain | | | | |
| Miss R Diversion Study | | | | |
| Total Feasibility Studies | | | | |
| <u>Complex Studies Funding</u> | | | | |
| Beneficial Use Sed Trap Below Venice (COE) | | | | |
| Barataria Barrier Shoreline (NMFS) | | | | |
| Diversion into Maurepas Swamp (EPA/COE) | | | | |
| Holly Beach Segmented Breakwaters (DNR) | | | | |
| Central & Eastern Terrebonne Basin (USFWS) | | 190,000 | | |
| Delta Building Diversion Below Empire (COE) | | | | |
| Total Complex Studies | <u>\$0</u> | <u>\$190,000</u> | <u>\$0</u> | <u>\$0</u> |

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| | FY2006 Amount (\$) | FY2007 Amount (\$) | FY2008 Amount (\$) | FY2009 Amount (\$) |
|---|-----------------------|-----------------------|-----------------------|-----------------------|
| Outreach | | | | |
| Outreach | 460,948 | 463,858 | 464,470 | 516,310 |
| Supplemental Tasks | | | | |
| Academic Advisory Group | 99,000 | 100,100 | 103,400 | 112,200 |
| Database & Web Page Link Maintenance | 61,698 | 62,996 | 63,806 | 64,026 |
| Linkage of CWPPRA & LCA | | | | |
| Core GIS Support for Planning Activities | 305,249 | 307,249 | 307,249 | 307,249 |
| Oyster Lease GIS Database-Maint & Anal | 103,066 | | | |
| Oyster Lease Program Mgmt & Impl | | | | |
| Joint Training of Work Groups | | | | |
| Terrebonne Basin Recording Stations | | | | |
| Land Loss Maps (COE) | 63,250 | | | |
| Storm Recovery Procedures (2 events) | 97,534 | | | |
| Landsat Satellite Imagery | | | | |
| Digital Soil Survey (NRCS/NWRC) | | | | |
| GIS Satellite Imagery | | | | |
| Aerial Photography & CD Production | | | | |
| Adaptive Management | | | | |
| Development of Oyster Reloc Plan | | | | |
| Dist & Maintain Desktop GIS System | | | | |
| Eng/Env WG rev Ph 2 of appr Ph 1 Prjs | | | | |
| Evaluate & Assess Veg Plntgs Coastwide | | | | |
| Monitoring - NOAA/CCAP ²³ | | | | |
| High Resolution Aerial Photography (NWRC) | | | | |
| Coast-Wide Aerial Vegetation Svy | | | | |
| Repro of Land Loss Causes Map | | | | |
| Model flows Atch River Modeling | | | | |
| MR-GO Evaluation | | | | |
| Monitoring - | | | | |
| Academic Panel Evaluation | | | | |
| Brown Marsh SE Flight (NWRC) | | | | |
| Brown Marsh SW Flight (NWRC) | | | | |
| COAST 2050 (DNR) | | | | |
| Purchase 1700 Frames 1998 | | | | |
| Photography (NWRC) | | | | |
| CDROM Development (NWRC) | | | | |
| DNR Video Repro | | | | |
| Gov's Office Workshop | | | | |
| GIWW Data collection | | | | |
| Evaluation Report to Congress | | | | 109,545 |
| CWPPR Prog Capac Eval P1 | | | | - |
| CWPPR Prog Capac Eval P2 | | | | - |
| CWPPR Prog Capac Eval P3 | | | | - |
| GIWW Distributary Report (FY09) | | | | 18,000 |
| Total Supplemental | \$729,797 | \$470,345 | \$474,455 | \$611,020 |
| Total Allocated | \$5,112,355 | \$5,168,692 | \$4,996,004 | \$5,446,635 |
| Unallocated Balance | | | | (\$446,635) |
| Total Unallocated | \$1,185,632 | | | \$738,997 |

/Planning_2009/
refinementsht
FY_summary

Coastal Wetlands Planning, Protection and Restoration Act Fiscal Year 2009 Budget Summary

P&E Committee Recommendation, 28 August 2008 Tech Committee Recommendation, Task Force Approval,

| FY2006 Amount (\$) | FY2007 Amount (\$) | FY2008 Amount (\$) | FY2009 Amount (\$) |
|-----------------------|-----------------------|-----------------------|-----------------------|
|-----------------------|-----------------------|-----------------------|-----------------------|

Footnotes:

- ¹ amended 28 Feb 96
- ² \$700 added for printing, 15 Mar 96 (TC)
- ³ transfer \$600k from '97 to '98
- ⁴ transfer \$204k from MRSNFR TO Barrier Shoreline Study
- ⁵ increase of \$15.1k approved on 24 Apr 97
- ⁶ increase of \$35k approved on 24 Apr 97
- ⁷ increase of \$40k approved on 26 Jul 97 from Corps Planning Funds
- ⁸ Original \$550 in Barrier Shoreline Included \$200k to complete Phase 1 EIS, and \$350k to develop Phase 2 feasibility scope.
- ⁹ Assumes a total of \$420,000 is removed from the Barrier Shoreline Study over 2 years from Phase 1 EIS
- ¹⁰ Excludes \$20k COE, \$5k NRCS, \$5k DNR, \$2kUSFWS, and \$16k NMFS moved to Coast 2050 during FY 97 for contracts & @\$255k absorbed in agency FY 97 budgets for a total of \$303,000.
to COAST2050 during FY 97 for contracts & @\$255k absorbed in agency FY 97 budgets for a total of \$303,000.
- ¹¹ Additional \$55,343 approved by Task Force for video documentary.
- ¹² \$29,765 transferred from DNR Coast 2050 to NWRC Coast 2050 for evaluation of Report.
- ¹³ \$100,000 approved for WAVCIS at 4 Aug 99 Task Force meeting. Part of Barrier Shoreline Study.
- ¹⁴ Task Force approved 4 Aug 99.
- ¹⁵ Task Force approved additional \$50,000 at 4 Aug 99
- ¹⁶ Carryover funds from previous FY's; this number is being researched at present.
- ¹⁷ \$600,000 given up by MRSNFR for FY 2000 budget.
- ¹⁸ Total cost is \$228,970.
- ¹⁹ Task Force approved FY 2000 Planning Budget 7 Oct 99 as follows:
 - (a) General Planning estimates for agencies approved.
 - (b) 75% of Outreach budget approved; Agency outreach funds removed from agency General Planning funds; Outreach Committee given oversight of agency outreach funds.
 - (b) 50% of complex project estimates approved.
- ²⁰ Outreach: original approved budget was \$375,000; revised budget \$415,000.
 - (a) 15 Mar 2000, Technical Committee approved \$8,000 increase Watermarks printing.
 - (b) 6 Jul 2000, Task Force approved up to \$32,000 for Sidney Coffee's task of implementing national outreach effort.
- ²¹ 5 Apr 2000, Task Force approved additional \$67,183 for preparation of report to Congress.
\$32,000 of this total given to NWRC for preparation of report.
- ²² 6 Jul 00: Monitoring - Task Force approved \$30,000 for Greg Steyer's academic panel evaluation of monitoring program.
- ²³ Definition: Monitoring (NWRC) - NOAA/CCAP (Coastwide Landcover [Habitat] Monitoring Program
- ²⁴ 29 Aug 00: Task Force fax vote approves \$29,500 for NWRC for brown marsh southeastern flight
- ²⁵ 1 Sep 00: Task Force fax vote approves \$46,000 for NWRC for brown marsh southwestern flight
- ²⁶ 10 Jan 2001: Task Force approves additional \$113,000 for FY01.
- ²⁷ 30 May 01: Tech Comm approves 86,250 for Coast-Wide Aerial Vegetation Survey for LDNR; T.F. fax vote approves
- ²⁸ 7 Aug 2001: Task Force approves additional \$63,000 in Outreach budget for Barataria Terrebonne National Estuary Foundation Superbowl campaign proposal.
- ²⁹ 16 Jan 2002, Task Force approves \$85,000 for each Federal agency (except COE) for participation in LCA/Coast 2050 studies and collocation.
Previous budget was \$45,795, revised budget is \$351,200, an increase of \$305,405. This task is a supplemental activity in each agency's General Planning budget.
- ³⁰ 2 Apr 02: LADNR requested \$64,000 be transferred from its General Planning budget to LUMCON for Academic Assistance on the Adaptive Management supplemental task.
- ³¹ 1 May 02: LADNR requested \$1,500 be transferred from their General Planning (activity ER 12010, Prepare Report to Congress) and given to NWRC for creation of a web-ready version of the CWPPRA year 2000 Report to Congress for printing process.
- ³² 16 Jan 2003: Task Force approves LDWF estimate that was not included in originally approved budget.
- ³³ 4 May 2005: Task Force approves additional \$164,024 funding under General Planning for Programmatic Assessment and Vision task; +\$48,840 (COE); +\$86,938 (NWRC); +\$21,670 (NRCS); +\$6,576 (NMFS)
- ³⁴ 24 Aug 2006: Scott Wilson requests reduction of \$37,000 from the \$86,938 for the Programmatic Assessment; \$45,000 was given for printing but only \$8,000 used.
- ³⁵ 25 Jan 2006: FY2006 budget, \$98,250 for Report to Congress item added to approved budget
- ³⁵ 28 July 2005: Scott Wilson e-mail requests reduction of \$43,113.99 from current \$275,000 FY98 budget.

Coastal Wetlands Planning, Protection and Restoration Act
Fiscal Year 2009 Budget Refinement

| Activity | P & E Initial Budget 21-Jul-08 Amount (\$) (1) | Option 1 P & E Recommends to Tech 28-Aug-08 Amount (\$) (2a) | Option 2 P & E Recommends to Tech 28-Aug-08 Amount (\$) (2b) | Option 3 P & E Recommends to Tech 28-Aug-08 Amount (\$) (2c) | Tech Committee Recommendations Amount (\$) (3) | Task Force Approves Amount (\$) (4) |
|--|---|---|---|---|--|--|
| General Planning & Program Participation (does not include Supplemental Activities) | | | | | | |
| State of Louisiana | | | | | | |
| DNR | 415,736 | 412,736 | 412,736 | 412,736 | | |
| Gov's Ofc | 93,900 | 93,900 | 93,900 | 93,900 | | |
| LDWF | 96,879 | 96,879 | 96,879 | 96,879 | | |
| Total State | 606,515 | 603,515 | 603,515 | 603,515 | | |
| EPA | 496,519 | 496,519 | 496,519 | 496,519 | | |
| Dept of the Interior | | | | | | |
| USFWS | 488,196 | 488,196 | 488,196 | 488,196 | | |
| NWRC | 63,656 | 63,656 | 63,656 | 63,656 | | |
| USGS Reston | | | | | | |
| USGS-B.R. | | | | | | |
| USGS-Woods Hole | | | | | | |
| NPS | | | | | | |
| Total Interior | 551,852 | 551,852 | 551,852 | 551,852 | | |
| Dept of Agriculture | 609,650 | 609,650 | 609,650 | 609,650 | | |
| Dept of Commerce | 609,301 | 602,425 | 602,425 | 602,425 | | |
| Dept of the Army | 1,463,369 | 1,455,344 | 1,455,344 | 1,455,344 | | |
| Agency Total | \$4,337,206 | \$4,319,305 | \$4,319,305 | \$4,319,305 | | |
| Complex Studies Funding | | | | | | |
| Beneficial Use Sed Trap Below Venice (COE) | | | | | | |
| Barataria Barrier Shoreline (NMFS) | | | | | | |
| Diversion into Maurepas Swamp (EPA/COE) | | | | | | |
| Holly Beach Segmented Breakwaters (DNR) | | | | | | |
| Central & Eastern Terrebonne Basin (USFWS) | | | | | | |
| Delta Building Diversion Below Empire (COE) | | | | | | |
| Total Complex Studies | | | | | | |
| Supplemental Tasks | | | | | | |
| Academic Advisory Group | | 112,200 | 112,200 | 112,200 | | |
| Maint of Web-Based Project Reports | 64,026 | 64,026 | 64,026 | 64,026 | | |
| Linkage of CWPPRA and LCA | | | | | | |
| Core GIS Support for Planning Activities | 307,249 | 307,249 | 307,249 | 307,249 | | |
| Prog Capacity Eval Part 1 | 2,686 | | | 41,935 | | |
| Prog Capacity Eval Part 2 | | | 29,910 | 29,910 | | |
| Prog Capacity Eval Part 3 | | | 94,280 | 94,280 | | |
| GIWW Distributary Report (FY09) | | 18,000 | 18,000 | 18,000 | | |
| Report to Congress | | 109,545 | 109,545 | 109,545 | | |
| Oyster Lease Database Maint & Analysis | | | | | | |
| Oyster Lease Program Mgmt & Impl | | | | | | |
| Joint Training | | | | | | |
| Update Landloss Maps | | | | | | |
| Storm Recovery Procedures (2 events) | | | | | | |
| Land-Water Chg Assessment after 2005 | | | | | | |
| Oyster Relocation Plan | | | | | | |
| Subtotal Supplemental | \$373,961 | \$611,020 | \$735,210 | \$777,145 | | |

Coastal Wetlands Planning, Protection and Restoration Act
Fiscal Year 2009 Budget Refinement

| Activity | P & E Initial Budget 21-Jul-08 Amount (\$) (1) | Option 1 P & E Recommends to Tech 28-Aug-08 Amount (\$) (2a) | Option 2 P & E Recommends to Tech 28-Aug-08 Amount (\$) (2b) | Option 3 P & E Recommends to Tech 28-Aug-08 Amount (\$) (2c) | Tech Committee Recommends Amount (\$) (3) | Task Force Approves Amount (\$) (4) |
|---|---|---|---|---|---|--|
| Outreach | | | | | | |
| Outreach Committee | | 443,910 | 443,910 | 443,910 | | |
| Agency Participation: USACE | 6,600 | 6,600 | 6,600 | 6,600 | | |
| Agency Participation: USFWS | 3,300 | 3,300 | 3,300 | 3,300 | | |
| Agency Participation: NWRRC | 3,300 | 3,300 | 3,300 | 3,300 | | |
| Agency Participation: DNR | 6,600 | 6,600 | 6,600 | 6,600 | | |
| Agency Participation: Ofc of Gov | 6,600 | 6,600 | 6,600 | 6,600 | | |
| Agency Participation: EPA | 6,600 | 6,600 | 6,600 | 6,600 | | |
| Agency Participation: NRCS | 6,600 | 6,600 | 6,600 | 6,600 | | |
| Agency Participation: NMFS | 6,600 | 6,600 | 6,600 | 6,600 | | |
| Agency Administration: NWRRC | 26,200 | 26,200 | 26,200 | 26,200 | | |
| Dedications Support (no helicopters) | | | | | | |
| Helicopter Overflights for Special events (no dedications) | | | | | | |
| Outreach Committee Operations Budget: | | | | | | |
| Outreach Coordinator - Gabrielle Bodin | | | | | | |
| Watermarks | | | | | | |
| LaCoast Internet Home Page | | | | | | |
| Outreach Assistant/Interpretive Specialist | | | | | | |
| Printing, Video, & Graphics Support | | | | | | |
| Conference/Exhibit Support | | | | | | |
| Travel | | | | | | |
| Product Reproduction | | | | | | |
| Contractual Support for Outreach Dist | | | | | | |
| Awareness Poster Development (COE) | | | | | | |
| Broadcast Quality B-roll Aerial Video | | | | | | |
| Project Sign Development (NRCS) | | | | | | |
| Contract Writer (USGS) | | | | | | |
| New Initiative-Science of Rest Video/CD | | | | | | |
| New Initiative- | | | | | | |
| New Initiative- | | | | | | |
| and Values CD | | | | | | |
| Subtotal - Outreach | \$72,400 | \$516,310 | \$516,310 | \$516,310 | | |
| Total Allocated | \$4,783,567 | \$5,446,635 | \$5,570,825 | \$5,612,760 | | |
| Unallocated Balance | 216,433 | (446,635) | (570,825) | (612,760) | 5,000,000 | 5,000,000 |
| Total Unallocated | 1,402,065 | 738,997 | 614,807 | 572,872 | 6,185,632 | 6,185,632 |
| (Carry In = \$1,185,632) | | | | | | |
| | \$1,185,632 | | | | | |

SCOPE OF SERVICES

SPE 19100 University Scientists Assistance to the Louisiana Coastal Conservation and Restoration Task Force (PPL19)

Louisiana Universities Marine Consortium, Cocodrie, Louisiana

1. Project Management

The Project Manager for this project is Dr. Jenneke M. Visser, who will be subcontracted through the University of Louisiana at Lafayette. The Project Manager's duties have been divided over the following subtasks:

1a. Day-to-day operation

The Project Manager will facilitate execution of the main contract; draft subcontracts to Louisiana universities for implementation by LUMCON Grants and Contracts personnel; approve all spending, including subcontract invoices; and act as a single point of contact for the Task Force, the Scientific Steering Committee, subcontractors, and the broader academic community.

1b. Participation in Task Force activities

The Project Manager will attend all Task Force, Technical Committee, and Planning and Evaluation Subcommittee meetings.

1c. Solicitation of Interest

If necessary due to resignation of existing AAG group members, a solicitation will be developed by the Project Manager and approved by the CWPPRA Academic Assistance Subcommittee. It will describe the types of activities in which university scientist participation is expected (Regional Planning Teams and Environmental Workgroup). The solicitation will describe the selection process, including the minimum selection criteria for each task, and contracting arrangement. To ensure that those from the university community involved in the CWPPRA process are active wetland scientists aware of contemporary research in their field, the Scientific Steering Committee has developed the following selection criteria. Selected scientists should have a Ph.D. or MSc. and five years of research experience in wetlands/river/coastal-related issues and at least one of the following:

- at least two peer-reviewed publications on wetlands/river/coastal-related issues within the last five years
- at least four presentations at national or international meetings on wetlands/river/coastal-related issues within the last five years
- current grants and/or contracts to conduct research on wetlands/river/coastal-related issues which have been awarded through a peer-review process

The solicitation will include an information sheet. This information sheet will be used to indicate the activities that a scientist wants to participate in and the nature of their availability. A two page CV for each interested scientist will be requested in the solicitation. The solicitation will be sent to all scientists currently in the Academic Assistance database, as well as heads of all biology, geology, and civil engineering departments at Louisiana state

universities. A copy of the solicitation will also be provided to all members of the Planning and Evaluation Subcommittee and Technical Committee who may distribute it to any Louisiana state university scientists they wish to ensure are contacted. The deadline for response will be at least two weeks after mailing.

1d. Selection of participating scientists

The Project manager will conduct a preliminary screening of the responses to determine which respondents are currently available for consideration. If sufficient qualified scientists can be identified, the Project Manager will provide the Academic Assistance Subcommittee with a list for consideration which exceeds the number of scientists required by no more than 50%. The Academic Assistance Subcommittee will make the final selection of scientists.

2. Regional Planning Team Assistance

There are four regional planning teams (RPT). These RPTs select projects for nomination on the priority project list. One selected scientist, who has broad familiarity with the region, will be assigned to each RPT. RPT meetings will also be attended by the Project Manager or a designated replacement to provide consistency in assistance to all four regions. The role of the selected ecologist and the Project Manager are to provide the RPTs with the scientific background for any planning activities within the region.

Appropriate Fields of Expertise: Wetland Ecology.

3. Environmental Work Group Assistance

Three scientists will be selected for this task. The role of the selected scientists is to provide advice and assistance to the Task Force personnel and become part of the Wetland Value Assessment (WVA) team. The WVA team will visit each site in the field. Task Force agencies will generally provide boat transportation to field sites. Aspects of the projects will be discussed in the field, and a formal WVA analysis will be conducted by the team after the field visits.

Appropriate Fields of Expertise: Wetland Ecology, Coastal Geomorphology, and Wetland Hydrology.

Current Active Members of the Academic Advisory Group:

| | |
|--------------------------|--------------------|
| Project Management: | Dr. Jenneke Visser |
| Regional Planning Team 1 | Dr. Gary Shaffer |
| Regional Planning Team 2 | Dr. Charles Sasser |
| Regional Planning Team 3 | Dr. Mark Hester |
| Regional Planning Team 4 | Mr. Erick Swenson |
| Environmental Workgroup | Dr. Larry Rouse |
| | Dr. Charles Sasser |
| | Mr. Erick Swenson |

Academic Advisory Group Budget

| | |
|------------------------------------|---------------|
| Project Management | 30,000 |
| Regional Planning Team Assistance | 15,000 |
| Environmental Workgroup Assistance | 57,000 |
| Subtotal | 102,000 |
| <u>LUMCON overhead (10%)</u> | <u>10,200</u> |
| Total | 112,200 |

SPE 19200 - Maintenance of Web-Based Project Reports and Website Project Fact Sheets



United States Department of the Interior
U.S. GEOLOGICAL SURVEY

National Wetlands Research Center

August 4, 2008

CWPPRA FY09 Planning Task: CWPPRA Web-Based Project Information System Maintenance (Fact sheet Links projects)

Background:

The CWPPRA is a large interagency program that depends on current and accurate information for project planning and public interaction. To assist in coordinating and compiling information, CWPPRA has developed a real-time, interactive, internet-based data management system. The Task Force funded an effort to initiate a web-based information management system to provide a consistent and comprehensive mechanism to disseminate current programmatic information. This effort was in response to conflicting information that was being disseminated from different databases and fact sheets that were either not current or accurate. Development of the web-based management system is working with the following programmatic databases: CWPPRA Outreach Committee's standardized public project fact sheets, CWPPRA budget analyst reports and databases, the WVA working group spreadsheets, and the USGS CWPPRA project mapping effort. The net result has been a totally standardized real-time updated system that will be available to all interested parties.

The USGS is requesting funds to maintain the overall system, and develop new automated programmatic fact sheet reports, as needed

Cost: \$45,200

CWPPRA FY 09 Planning Budget
SPE 19200 Maintenance of Web-Based Project Reports and Website Project Fact Sheets

Louisiana Department of Natural Resources Justification

Description:

The Louisiana Department of Natural Resources (LDNR) generates a large number of reports through their activities performed in support of the CWPPRA program. CWPPRA related documents that are generated by the LDNR include project close-out reports, comprehensive monitoring reports, ecological reviews, monitoring plans, progress reports, and summary data and graphic reports. Moreover, the LDNR maintains a web-based searchable database for these reports that is both available to the CWPPRA community from the LDNR website and is linked to the CWPPRA website. These documents can be viewed on-line and downloaded in Adobe Acrobat PDF format.

The LDNR is requesting funds to continue to furnish CWPPRA documents produced by the Department in a format that is conducive to on-line availability and to maintain this availability through links on the LDNR website and through coordination with the CWPPRA website.

| TASK | DESCRIPTION | COST |
|-------------|--|-------------|
| SPE 19200 | Maintenance of Web-based Project Reports and Website Fact Sheets | \$ 14,608 |

CWPPRA FY 09 Planning Budget

CWPPRA Planning Task (SPE 19200)

Maintenance of Web-Based Project Reports and Website Project Fact Sheets
(Corps of Engineers)

July 2008

Description:

The CWPPRA program maintains and utilizes current project information for interagency and public use and information. The system currently in place links together the CWPPRA general public fact sheet information, project manager's quarterly updates, CWPPRA reports and the financial system maintained by the Corps.

The Corps is requesting funds to continue to furnish and insure that project information is current and interactive with the USGS database and the project manager updates, and to create requested reports on the internet-based system.

| TASK | DESCRIPTION | COST |
|-------------|--|-------------|
| SPE 19200 | Maintenance of Web-based Project Reports and Website Fact Sheets | \$ 4,218 |

**SPE 19300 – CWPPRA FY 2009 Report to Congress
[USGS - NWRC]**

Task Description: The CWPPRA Act requires the Program to report to Congress on the effectiveness of the its restoration projects every three years. The Act states that: ". . .at least three years thereafter (after restoration plan development), the Task Force shall provide a report to the Congress containing a scientific evaluation of the effectiveness of the coastal wetlands restoration projects carried out under the plan in creating, restoring, protecting and enhancing coastal wetlands in Louisiana." (PL 101-646, Section 303 (b)(7).

FY 2009 Budget Request: The USGS - National Wetlands Research Center (NWRC) will be the lead in executing this task, including compiling and reproducing the document. All CWPPRA agencies and the Academic Advisory Group will assist in developing the outline and various sections of the draft, and review the draft report for submittal to the Technical Committee and Task Force. The USFWS will provide updated project benefits; the Corps will provide cost and other information; the CPRA IT will provide monitoring data summaries, and the other agencies will assist in report development. The 2006 Report to Congress will be updated and a section will be added to cover program issues, including program funding availability, program capacity, and induced shoaling concerns and its impacts on the program. It is anticipated that the effort will include a steering committee meeting to finalize the outline and a meeting to review the draft prior to sending it to the Technical Committee and Task Force for approval. Various levels of agency assistance (updated costs and benefit statistics, monitoring information) will be provided to the USGS lead agency as needed during document preparation.

Report to Congress Estimated Planning Budget

| | |
|---------------------------------------|------------------|
| USGS Lead Agency (staff and printing) | \$81,750 |
| USFWS | \$6,540 |
| NRCS | \$3,270 |
| NMFS | \$3,270 |
| EPA | \$3,270 |
| CPRA IIT | \$3,270 |
| Corps | \$6,540 |
| Academic Advisory Board | \$1,635 |
| Total Estimate | \$109,545 |

Benefit to CWPPRA: The CWPPRA Program must submit a report to Congress every three years according to the Act. A three-year reporting of the status and benefits of the Program will assist CWPPRA in adaptively managing projects to better achieve benefits and will provide information for the construction of future restoration projects.

Contact: Scott Wilson, USGS, NWRC, 337-266-8644.

SPE 19400 – Core GIS Support for CWPPRA Task Force Planning Activities [NWRC]



United States Department of the Interior
U.S. GEOLOGICAL SURVEY

National Wetlands Research Center

September 23, 2008

CWPPRA Reoccurring Planning Task: *Core GIS Support for CWPPRA Task Force Planning Activities – Continuation for FY09*

Description:

The NWRC has provided the Task Force with GIS planning support since 1992. The scope and complexity of this support has increased over the past 16 years and has resulted in the development of a comprehensive GIS that provides the Task Force with annual planning deliverables that include spatial data sets, spatial data analyses, maps, graphics, and technical support. Providing these products and services to the Task Force requires a standardized GIS data management environment and a good deal of coordination with Task Force members. The GIS products and technical services provided by the NWRC for CWPPRA Planning are, far the most part “reusable”, designed to support multi-scale applications, and form the core of the GIS data sets used to support CWPPRA monitoring, land rights, and engineering activities. The system that we have today represents 18 years of the Task Force’s investment in GIS technology, data development, and skilled staff. The NWRC continues to incorporate updated data sets and spatial analytical techniques to support the task force on an annual basis. The existing GIS now utilizes data sets created for the LCA Study, providing enhanced spatial data development, analyses and products. A large amount of spatial data has been created to monitor post-hurricane recovery. The NWRC has continued to incorporate available after hurricanes spatial data into the FY08 PPL process and will continue to incorporate new data as required to assist the Task Force.

The NWRC requests reauthorization of the Core GIS Support Task for FY09.

Core NWRC GIS support for FY09

| Task | Description | Cost |
|-----------|---|-----------|
| SPE 19400 | Continuation of Core GIS Support for CWPPRA Task Force Planning Activities. | \$296,294 |

Benefits:

- < Identifies core CWPPRA Planning GIS support as one reoccurring item, rather than splitting support among various technology or map initiatives introduced on an annual basis.
- < Insures continued spatial data maintenance, management, and coordination for Task Force.
- < Insures incorporation of new spatial data sets and technologies for Task Force.
 - o Examples
 - Provide more detailed PPL project analyses incorporating a wider variety of data types.
 - Provide interactive GIS support at pertinent meetings.

Deliverables:

Annual continued core CWPPRA Planning GIS support and products (data, technical support, data coordination, data distribution, and hard copy products) at present levels.

SPE 19400 - Core GIS Support for CWPPRA Task Force Planning Activities [LDNR]

Description

A detailed description of the CWPPRA Planning Task *SPE 19400 - Core GIS Support for CWPPRA Task Force Planning Activities* has been explained previously in the justification for National Wetlands Research Center (NWRC) activities in support of this task. The Louisiana Department of Natural Resources, Coastal Restoration Division's (LDNR) use of the SPE 19400 CWPPRA Planning Task Code pertains to administration and management of the contract between the NWRC and the LDNR to carry out activities performed under this task.

FY 2009 Budget Request

Administration and management of the contract between the NWRC and the LDNR includes writing the actual contract document, reviewing NWRC charges for accuracy, processing invoices, and tracking expenditures. Specifically included are salaries for the LDNR contract manager and support staff in the contracts section. The FY 2009 CWPPRA Planning budget request is for \$10,955.00.

Benefit to CWPPRA

As stated above, a detailed description of the benefits to CWPPRA of the CWPPRA Planning Task *SPE 19400 - Core GIS Support for CWPPRA Task Force Planning Activities* has been explained previously in the justification for NWRC activities in support of this CWPPRA Planning Task.

Contact

William K. "Kirk" Rhinehart, Louisiana Department of Natural Resources, Coastal Restoration Division, (225) 342-2179.

**SPE 19510 – CWPPRA Program Capacity Evaluation Part 1
Update Cost Estimates for Cash Flow Projects Not Approved for Construction
[Corps]**

Task Description: Project construction costs have significantly increased since the 2005 hurricanes and more recently due to fuel and material cost increases. Current estimates for CWPPRA projects that have not been funded or otherwise approved for construction are expected to be outdated and lower than the actual future costs would be. As such, it is expected that current estimates of the CWPPRA Program’s capacity to meet future anticipated construction funding approvals do not sufficiently reflect reasonably anticipated future construction program costs. As such, the P&E recommends that unit cost estimates, schedules, and economic analysis be updated for all cash-flow projects that have not been approved and funded for construction.

FY 2009 Budget Request: The Planning and Evaluation Subcommittee, and Engineering and Economics Workgroups would be responsible for executing this task. The Corps will take the lead on this supplemental task and all CWPPRA agencies will be engaged consistent with normal Engineering Cost Estimate and Economics review procedures.

| Eng | Unit Cost | Unit | Units | Total Estimate |
|-----------------------|-----------|-----------------|----------------|----------------|
| Engineering WG Chair | \$1,000 | Work Days | 5.5 | \$5,500 |
| Economics WG Chair* | \$400 | No. of Projects | 33 | \$13,200 |
| USFWS, EngWG | \$1,000 | Work Days | 2 | \$2,000 |
| NRCS, EngWG | \$1,000 | Work Days | 5.5 | \$5,500 |
| NMFS, EngWG | \$1,000 | Work Days | 2 | \$2,000 |
| EPA, EngWG | \$1,000 | Work Days | 2 | \$2,000 |
| CPRA IIT | \$1,000 | Work Days | 2 | \$2,000 |
| P&E Chair | \$800 | Level of Effort | 1 | \$800 |
| Rest of P&E | \$500 | Level of Effort | 5 | \$2,500 |
| Corps Program Analyst | \$195 | No. of Projects | 33 | \$6,435 |
| | | | Total Estimate | \$41,935 |
| | | | Avg Cost/Prj | \$1,271 |

*Work may be distributed among Corps and NRCS

Benefit to CWPPRA: Updating cost estimates of anticipated future funding approvals will enable the Task Force to ascertain and inform the public of the impacts of program funding limits on future Priority Project List development.

Contact: Melanie L Goodman, US Army Corps of Engineers, Protection and Restoration Office, Restoration Branch, (504) 962-1940.

SPE 19520 – CWPPRA Program Capacity Evaluation Part 2
Update Cost Estimates for Projects Approved or Otherwise Funded for Construction
[Corps]

Task Description: The P&E recommends that engineering cost estimates, schedules, and economic analysis be updated for all projects that have been approved or otherwise funded for construction. Project construction costs have rapidly and significantly increased since the 2005 hurricanes and more so recently due to fuel and material cost increases. These increases are evident in the recent trend in CWPPRA projects needing construction cost increases. Current estimates for CWPPRA projects that have been approved or otherwise funded, but have not yet awarded construction contracts, are anticipated to be outdated and lower than the actual construction costs will be. As such, these project cost estimates need to be updated so that the Task Force will be better able to forecast and weigh the impacts of likely construction funding increases on annual construction program budgets.

FY 2009 Budget Request: Project lead federal and local sponsors will be responsible for updating construction and O&M engineering estimates, schedules and coordinating economic analyses based on current project features. These tasks will be charged to individual project budgets. The Engineering Workgroups will review estimates and schedules and the Economics Workgroup will prepare updated Economic Analysis at the expense of the CWPPRA Planning Budget. The Corps will be the lead on this supplemental task and all CWPPRA agencies will be engaged consistent with normal Engineering Cost Estimate and Economics review procedures.

| Eng | Unit Cost | Unit | Units (#Prjs) | Total Estimate |
|-----------------------|-----------|-----------------|----------------|----------------|
| Engineering WG Chair | \$1,000 | Work Days | 4.5 | \$4,500 |
| Economics WG Chair* | \$400 | No. of Projects | 17 | \$6,800 |
| USFWS, EngWG | \$1,000 | Work Days | 1 | \$1,000 |
| NRCS, EngWG | \$1,000 | No. of Projects | 4.5 | \$4,500 |
| NMFS, EngWG | \$1,000 | Work Days | 1 | \$1,000 |
| EPA, EngWG | \$1,000 | Work Days | 1 | \$1,000 |
| CPRA IIT | \$1,000 | Work Days | 1 | \$1,000 |
| P&E Chair | \$2,000 | Level of Effort | 1 | \$2,000 |
| Rest of P&E | \$500 | Level of Effort | 5 | \$2,500 |
| Corps Program Analyst | \$330 | No. of Projects | 17 | \$5,610 |
| | | | Total Estimate | \$29,910 |
| | | | Avg Cost/Prj | \$1,759 |

*Work may be distributed among Corps and NRCS

Benefit to CWPPRA: Updating cost estimates of projects approved or funded for construction will enable the Task Force to ascertain and inform the public of the impacts of cost increases on annual construction program budgets and future Priority Project List development.

Contact: Melanie L Goodman, US Army Corps of Engineers, Protection and Restoration Office, Restoration Branch, (504) 962-1940.

**SPE 19530 – CWPPRA Program Capacity Evaluation Part 3
Update Operation and Maintenance Cost Estimates for Constructed Projects
[CPRA IT]**

Task Description: O&M costs have significantly increased since the 2005 hurricanes and more recently due to fuel and material cost increases. Current CWPPRA O&M cost estimates are expected to be lower than the actual future costs needs, and may not reflect reasonably anticipated future program costs. The P&E recommends that O&M unit cost estimates, schedules, and economic analyses be updated for all constructed or projects in construction (75 constructed and 16 in construction; total 91 projects).

FY 2009 Budget Request: CPRA IT (DNR) O&M managers, Federal-sponsor project managers, and the Engineering and Economics Workgroups would be responsible for executing this task. All CWPPRA agencies will review the draft results consistent with normal Engineering Cost Estimate and Economics review procedures.

| Eng | Unit Cost | Unit | Units | Total Estimate |
|---------------------------------|-----------|-----------------|------------------|----------------|
| CPRA IT O&M Supervisor | \$60 | No. of Projects | 54 | \$3,240 |
| CPRA IT O&M Staff | \$420 | No. of Projects | 54 | \$22,680 |
| Federal Sponsor Managers Review | \$60 | No. of Projects | 54 | \$3,240 |
| Engineering WG Chair | \$1,000 | Work Days | 6.5 | \$6,500 |
| Economics WG* | \$400 | No. of Projects | 54 | \$21,600 |
| USFWS, EngWG | \$1,000 | Work Days | 3 | \$3,000 |
| NRCS, EngWG | \$1,000 | Work Days | 6.5 | \$6,500 |
| NMFS, EngWG | \$1,000 | Work Days | 3 | \$3,000 |
| EPA, EngWG | \$1,000 | Work Days | 3 | \$3,000 |
| CPRA IIT | \$1,000 | Work Days | 3 | \$3,000 |
| P&E Chair | \$200 | Level of Effort | 1 | \$200 |
| P&E Subcommittee | \$100 | Level of Effort | 5 | \$500 |
| Corps Program Analyst (Gay) | \$330 | No. of Projects | 54 | \$17,820 |
| | | | Total Task Cost | \$94,280 |
| | | | Average Cost/Prj | \$1,347 |

*Work may be distributed among Corps and NRCS

Benefit to CWPPRA: Updating O&M costs for constructed projects will enable the Task Force to better determine and inform the public of the impacts of program funding limits on future Priority Project List development.

Contact: Melanie L Goodman, US Army Corps of Engineers, Protection and Restoration Office, Restoration Branch, (504) 862-1940.

SPE 19600 – Report on The Gulf Intracoastal Waterway as a Distributary of Mississippi River Water to Coastal Louisiana Marshes

Request for funds by

Christopher M. Swarzenski, Ph.D., US Geological Survey, Louisiana Water Science Center

The USGS has been collecting discharge, stage, and salinity data along the GIWW east and west of the Atchafalaya Basin Floodway System since the mid 1990's. The water flowing in the GIWW in large part originates from the Lower Atchafalaya River, which in turn derives from the Mississippi River. Each year during the spring flood, the GIWW effectively becomes the largest distributary of Mississippi River water to many parts of coastal Louisiana. The flow of river water is larger than either of the constructed freshwater diversions at Davis Pond and Caernarvon. Because of its extensive east-west reach, flow in the GIWW reaches more coastal Louisiana marshes than any constructed diversion. Only the initial dataset, 1996-1999, has been published (Swarzenski 2003). USGS has secured about ½ of the funding needed to publish the additional data collected between 2000 and 2008, and would require additional funding of between \$18,000 and 25,000 to realize the project.

Proposed Report

Discharge, suspended sediment and salinity data are being collected at approximately 14 stations along the GIWW, between Cypremort Point and Bayou Lafourche, the western and eastern boundaries of the project area. The data are being collected discretely and/or continuously, with data collection platforms. Swarzenski (2003) was a comprehensive report on surface-water hydrology of the GIWW, with detailed discussions on the hydraulics of the flow. In the proposed report, the focus would be on presentation of the newly collected data (especially discharge). In addition, three short sections in the report will discuss:

- 1) how discharge along the GIWW differed between WY 2000 (a record drought) and WY 2008 (prolonged flood conditions), and how these differences affected salinity regimes in the Cote Blanche area, and in the Terrebonne watershed.
- 2) how the magnitude of the passive, naturally occurring flow in the GIWW compares with the two active freshwater diversions (Caernarvon and Davis Pond);
- 3) shifts in the stage-duration curve for the Lower Atchafalaya River from the 1940's to the present.

Included with the report will be a fold-out panel that has a map of the study area, and statistical summaries of instantaneous discharge and sediment load at all sampled locations under various stages of the Lower Atchafalaya River (1 ft increments). Depending on the available funding, a four page glossy fact sheet presenting statistical summaries of all instantaneous measurements will also be prepared.

Depending on when the funding becomes available, the report is scheduled to be completed and published by the end of 2008.

Swarzenski (2003) Surface-water hydrology of the Gulf Intracoastal Waterway in South-Central Louisiana, 1996-1999 *USGS Professional Paper 1672, accessible at*
<http://pubs.usgs.gov/pp/pp1672/>

DRAFT FY 2009 TOTAL OUTREACH BUDGET -

Personnel

| <u>Agencies</u> | <u>Meeting</u> | <u>Review</u> | <u>Admin</u> | <u>Implementation</u> |
|-----------------|----------------|---------------|--------------|-----------------------|
| NMFS | 3,300 | 3,300 | | 6,600 |
| NRCS | 3,300 | 3,300 | | 6,600 |
| EPA | 3,300 | 3,300 | | 6,600 |
| GOV | 3,300 | 3,300 | | 6,600 |
| DNR | 3,300 | 3,300 | | 6,600 |
| FWS | 0 | 3,300 | | 3,300 |
| NWRC | 3,300 | 0 | 26,200 | 29,500 |
| COE | 3,300 | 3,300 | 4,000 | 10,600 |

Total Agency Request 76,400

Operations Budget (from page 2) 439,910

Total CWPPRA Outreach Budget Request 516,310

**FY 2009 DRAFT PUBLIC OUTREACH COMMITTEE BUDGET
Recommendation to Task Force**

| Operations | Proposed FY2009 |
|---|----------------------------|
| <u>Description</u> | |
| Outreach Coordinator | 105,462 |
| Watermarks Newsletter Development and Printing Contract - NRCS | 99,500 |
| WaterMarks Distrubution - COE | 28,500 |
| LaCoast Internet Home Page | 55,000 |
| Outreach Assistant / Educational Specialist - Breaux Act Newsflash, event assistance, Distribution, Teacher Workshops, Administrative Support | 77,949 |
| Dedications support (printing, photographs, Printing, Video, and Graphics Support | 4,000 |
| Conference /Exhibit Support - Display/Registration | 4,000 |
| Travel - National / Regional | 9,000 |
| Travel - National / Regional | 10,000 |
| CWPPRA Product Reproduction (video, CD- ROMS, fact sheets, slide shows, PowerPoint presentation, posters, brochures, etc) | 25,000 |
| Contractual Support for Outreach Distribution (student worker 16k and 5.5k for bulk mailing) | 21,500 |
| Operations Budget | 439,910 |

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT
TECHNICAL COMMITTEE MEETING

October 9, 2008

**ANNUAL REQUEST FOR INCREMENTAL FUNDING FOR
ADMINISTRATIVE COSTS FOR CASH FLOW PROJECTS**

For Decision:

The U.S. Army Corps of Engineers will request funding approval in the amount of \$22,138 for administrative costs for cash flow projects beyond Increment 1. The Technical Committee will vote to make a recommendation to the Task Force on the request for funds.

CWPPRA Cash Flow Management - COE Admin**Anticipated Funding Requests by Fiscal Year**

Last Updated 21 August 2008

Funding Request for Approval at 9 October 2008 Task Force Meeting Request = \$22,138

| Proj # | Project Name | Agency | PPL | Funding Request |
|-----------|--|------------|-----|-----------------|
| PO-27 | Chandeleur Island Restoration | NMFS | 9 | |
| TE-41 | Mandalay Bank Protection Demo | USFWS | 9 | |
| MR-11 | Periodic Intro of Sed & Nutrients Demo | COE | 9 | |
| TE-37 | New Cut Dune Restoration | EPA | 9 | 1,305 |
| CS-30 | Perry Ridge West | NRCS | 9 | 958 |
| TE-45 | Terrebonne Bay Shore Protection Demo | USFWS | 10 | |
| CS-31 | Holly Beach | NRCS | 11 | |
| BA-27c(1) | Barataria Basin Landbridge - Ph 3 CU 3 | NRCS | 9 | 927 |
| LA-03b | Coastwide Nutria | NRCS | 11 | 938 |
| BS-11 | Delta Management at Fort St. Philip | USFWS | 10 | 940 |
| ME-19 | Grand-White Lake Landbridge Protection | USFWS | 10 | 940 |
| TE-44(1) | North Lake Mechant Landbridge - CU 1 | USFWS | 10 | |
| BA-27c(2) | Barataria Basin Landbridge - Ph 3 CU 4 | NRCS | 9 | |
| TV-18 | Four-Mile Canal | NMFS | 9 | 898 |
| LA-05 | Freshwater Floating Marsh Creation Demo | NRCS | 12 | |
| TE-40 | Timbalier Island Dune/Marsh Restoration | EPA | 9 | 898 |
| CS-29 | Black Bayou Bypass Culverts | NRCS | 9 | 869 |
| | CRMS | USGS/DNR | | 2,000 |
| CS-32(1) | East Sabine Lake Hydrologic Rest- CU 1 | USFWS/NRCS | 10 | 970 |
| BA-37 | Little Lake | NMFS | 11 | 999 |
| BA-38 | Barataria Barrier Island | NMFS | 11 | 747 |
| BA-27d | Barataria Basin Landbridge - Ph 4 CU 6 | NRCS | 11 | 968 |
| LA-06 | Shoreline Prot Foundation Imprvts Demo | COE | 13 | |
| ME-16 | Freshwater Intro. South of Hwy 82 | USFWS | 9 | 805 |
| TE-44(2) | North Lake Mechant Landbridge Rest - CU 2 | USFWS | 10 | 805 |
| TE-48 (1) | Raccoon Island Shoreline Protection - CU 1 | NRCS | 11 | 805 |
| ME-22 | South White Lake | COE | 12 | 1,211 |
| PO-30 | Lake Borgne Shoreline Protection | EPA | 10 | 809 |
| BA-35 | Pass Chaland to Grand Pass | NMFS | 11 | 853 |
| TE-46 | West Lake Boudreaux SP & MC | USFWS | 11 | 871 |
| TE-53 | Enhancement of Barrier Island Veg Demo | EPA | 16 | |
| BA-36 | Dedicated Dredging on Bara Basin LB | USFWS | 11 | 811 |
| PO-33 | Goose Point | USFWS | 13 | 811 |
| ME-21a | Grand Lake Shoreline Protection, Tebo Point Only | COE | 11 | |
| ME-21b | Grand Lake Shoreline Protection, O&M Only [CIAP] | COE | 11 | |
| LA-08 | Bio-Engineered Oyster Reef Demo | NMFS | 17 | |
| LA-09 | Sediment Containment Demo | NRCS | 17 | |
| BA-39 | Bayou Dupont Sediment Delivery System | EPA | 12 | |
| TE-48 (2) | Raccoon Island Shoreline Protection - CU 2 | NRCS | 11 | |
| TE-39 | South Lake DeCade - CU 1 | NRCS | 9 | |
| BA-41 | South Shore of the Pen | NRCS | 14 | |
| TE-50 | Whiskey Island Back Barrier M.C. | EPA | 13 | |
| | | | | 22,138 |

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

TECHNICAL COMMITTEE MEETING

October 9, 2008

REQUEST FOR OPERATION AND MAINTENANCE (O&M) INCREMENTAL FUNDING

For Decision:

The Technical Committee will consider and vote to make a recommendation to the Task Force to approve requests for total O&M funding of \$2,454,194.

- a. PPL 1-8 Projects requesting funding increases in the amount of \$353,450 for the following projects:
 - Cameron-Creole Plugs (CS-17), PPL-1, USFWS
Request increase in the amount of \$95,191.
 - Black Bayou Hydrologic Restoration (CS-27), PPL-6, NMFS
Requested increase in the amount of \$124,359.
 - Freshwater Bayou Wetland Protection (ME-04), PPL-2, NRCS
Requested increase in the amount of \$98,860.
 - Freshwater Bayou Bank Stabilization (ME-13), PPL-5, NRCS
Requested increase in the amount of \$35,040.

- b. PPL 9+ Projects requesting incremental funding for FY12 O&M costs in the amount of \$2,100,744 for the following projects:
 - Little Lake Shoreline Protection and Marsh Creation (BA-37), PPL-11, NMFS
Requested increase in the amount of \$58,949.
 - Coastwide Nutria Control Program (LA-03b), PPL-11, NRCS
Requested increase in the amount of \$2,041,795.

**Request for CWPPRA Project O&M Funding Increase
Project Costs and Benefits Reevaluation
Fact Sheet
September 10, 2008**

Project Name: Cameron-Creole Plugs Project (CS-17)

PPL: 1

Federal Sponsor: USFWS

Construction Completion Date: January 1997

Projected Project Close-out Date: January 2016

Project Description: Two sheet pile plugs with boat bays were installed in the Lakeshore Borrow Canal to moderate water circulation and flow, as well as reduce the duration of inundation in the southern project area.

Construction changes from the approved project: No changes.

Explain why O&M funding increase is needed: Bank erosion is occurring on each end of the sheet pile plug at both structure locations. Vandals have removed the composite timber on one side of the Mangrove structure boat guide possibly for increased boat passage. Since the 2007 funding request, site conditions have changed causing an increase in the construction cost. In addition fuel costs have escalated over the past year which in turn has caused bid prices to increase.

Detail O&M work conducted to date: Replaced all of the handrail system and signage at both structure locations. Install new boat bay guides using marine composite timbers at both structure locations. This work was completed in May 2006.

Detail and date of next O&M work to be completed per this O&M Request: Recommend placing 744 tons of rock (144 tons greater than FY 2007 request) to pave an approximate 25-50 foot radius around the bank at the ends of each structure and to replace the composite timber at the boat bay guide on the Mangrove structure. The estimated construction cost of this work is \$163,560 and the project should be completed by April 2009.

Detail of future O&M work to be completed: Anticipate need for maintenance of the handrail system and repair of sheet pile wall on both structures in 2012.

Originally approved fully funded project cost estimate: \$660,460

Originally approved O&M budget: \$198,245

Approved O&M Budget Increases (2007): \$47,897

Total O&M obligations to date: \$109,833

Remaining available O&M budget funds: \$136,309

Current Incremental Funding Request: \$95,191 (2007 + 2008 increase = \$143,088)

Revised fully funded cost estimate: \$1,257,871

Total Project Life Budget Increase: \$218,679

Requested Revised fully funded O&M estimate: \$464,821

Percent total project cost increase of proposed revised budget over original budget plus net budget changes: 21.04 %. The increase is 21.04% over the original fully funded O&M budget plus net changes (\$218,679 O&M increase) ($\$218,679 / (\$660,460 + \$378,732)$). The percent increase for the current \$95,191 request is 9.16% ($\$95,191 / (\$660,460 + 378,732)$). The 2007 increase plus this 2008 request percentage increase is 13.7 % ($\$143,088 / (\$660,460 + 378,732)$).

Original net benefits based on WVA prepared when project was approved: 865 acres

Estimate of cumulative project wetland acres to date (from quantitative and/or qualitative analysis): 865 acres.

Revised estimate of project benefits in net acres through 20 year project life based on the project with and without continued O&M (include description of method used to determine estimate):
Without continued O&M, it is anticipated that both plugs will be severely cut around and non functional within 5 years with very little benefits. With continued O&M, the anticipated benefits by year 15 are estimated at 75% of the total benefits, or 649 net acres.

Original and revised cost effectiveness (cost/net acre) as compared to original budget plus net changes and percent change:

Original CE = \$1,201/acre

Revised CE = \$1,454/acre 21.04%

Request for CWPPRA Project O&M Funding Increase
Project Performance Synopsis
August 4, 2008

Cameron-Creole Plugs (CS-17)

It was not possible to differentiate ecological responses due to the project plugs and the pre-existing water control structures. Due to these complications, we have been unable to document significant ecological responses to the project design. The reference areas for vegetation and SAV have been deemed inappropriate for the project areas because they are not independent of any possible effects of the plugs on vegetation and hydrology.

The goals of the Cameron/Creole Watershed Project (CS-17) can not be met due to the adjacent and non-functioning Cameron-Creole Maintenance Project (CS-04a) which sustained major damage from Hurricane Rita (four breaches in levee system) allowing uncontrolled water exchange. Repairs to make the CS-04a project fully operational again should be complete in 2008.

The area has been losing land since Hurricane Rita. Improvements to the levee system should help reduce landloss. Prior to Hurricane Rita, approximately 80% of the 24 vegetation stations utilized for this survey were healthy and intact. Following Hurricane Rita in 2005, 70% of the stations were stressed or had converted to open water (Figure 1). A year later in 2006, only 35% of the stations were back to pre storm stress levels. By 2007, 40% of the stations reverted to open water and an addition 18% remained severely stressed. The stations that had been converted to open water, as well as those that were severely stressed in 2005, did not recover.

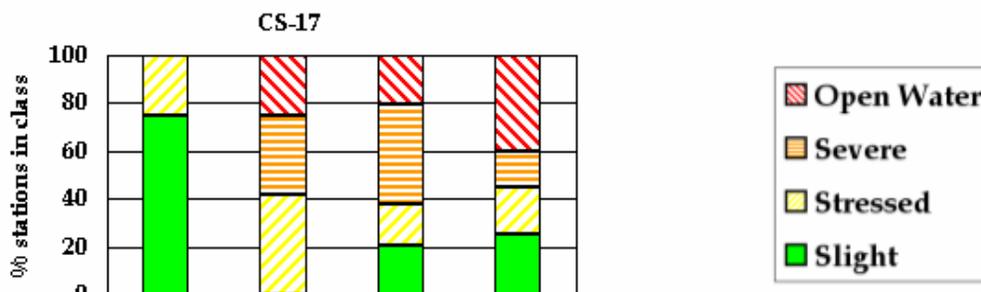


Figure 1. Percent of LDNR Vegetation stations in each stress class before and after Hurricane Rita in CS-17.

Prior to Hurricane Rita, the project area was dominated by *Spartina patens*, *Schoenoplectus americanus*, and *S. robustus* with total cover values up to 70%. Cover dropped to 11.9% in 2005, and increased to 18.6% by 2006 where high cover values for dead *S. patens* and disturbance species, *Amaranthus australis* were observed, along with

some colonization by *Paspalum vaginatum*. Also by 2006, the habitat type changed as cover of more salt tolerant species increased, such as *Distichlis spicata* and *Spartina alterniflora*. Cover values increased to 37% in 2007 and the trend of *Distichlis spicata* and *Spartina alterniflora* dominating continued, as both salinities and water levels remained high due to the breach in the levees along Calcasieu Lake.

The vegetation community in the Cameron Creole Watershed was severely impacted by Hurricane Rita and had not recovered by the fall of 2007. Cover values have drastically decreased, and species requiring a lower salinity brackish environment are being replaced by more salt tolerant species.

CWPPRA Project O&M Budget Adjustment Template

Project Name: Cameron-Creole Plugs CS-17
 PPL: 1
 Project Sponsor: USFWS

Prepared By: CPRA
 Date Prepared: 9/10/2008
 Date Revised:

| Year | Approved Original Base Line | | | | Obligations to Date | | | | Proposed Revised Estimate and Schedule | | | |
|------|-----------------------------|-------------------|-------------|----------------|---------------------|-------------------|-------------|----------------|--|-------------------|-------------|----------------|
| | FY | State O&M & Insp. | Corps Admin | Fed S&A & Insp | FY | State O&M & Insp. | Corps Admin | Fed S&A & Insp | FY | O&M & State Insp. | Corps Admin | Fed S&A & Insp |
| 0 | 1997 | \$1,913 | \$0 | \$1,000 | 1997 | \$0 | \$0 | \$0 | 1997 | \$0 | \$0 | \$0 |
| -1 | 1998 | \$2,027 | \$0 | \$1,000 | 1998 | \$1,087 | \$0 | \$0 | 1998 | \$1,087 | \$0 | \$0 |
| -2 | 1999 | \$2,144 | \$0 | \$1,000 | 1999 | \$224 | \$0 | \$0 | 1999 | \$224 | \$0 | \$0 |
| -3 | 2000 | \$2,265 | \$0 | \$1,000 | 2000 | \$0 | \$0 | \$0 | 2000 | \$0 | \$0 | \$0 |
| -4 | 2001 | \$2,389 | \$0 | \$1,000 | 2001 | \$1,914 | \$0 | \$0 | 2001 | \$1,914 | \$0 | \$0 |
| -5 | 2002 | \$22,536 | \$0 | \$1,000 | 2002 | \$516 | \$0 | \$0 | 2002 | \$516 | \$0 | \$0 |
| -6 | 2003 | \$2,649 | \$0 | \$1,000 | 2003 | \$1,407 | \$0 | \$0 | 2003 | \$1,407 | \$0 | \$0 |
| -7 | 2004 | \$2,985 | \$0 | \$1,000 | 2004 | \$2,351 | \$0 | \$0 | 2004 | \$2,351 | \$0 | \$0 |
| -8 | 2005 | \$3,225 | \$0 | \$1,000 | 2005 | \$24,932 | \$0 | \$0 | 2005 | \$24,932 | \$0 | \$0 |
| -9 | 2006 | \$3,370 | \$0 | \$1,000 | 2006 | \$56,639 | \$0 | \$0 | 2006 | \$56,639 | \$0 | \$0 |
| -10 | 2007 | \$43,103 | \$0 | \$1,000 | 2007 | \$7,519 | \$0 | \$339 | 2007 | \$7,519 | \$0 | \$339 |
| -11 | 2008 | \$3,822 | \$0 | \$1,000 | 2008 | \$12,475 | \$0 | \$430 | 2008 | \$12,475 | \$0 | \$430 |
| -12 | 2009 | \$3,985 | \$0 | \$1,000 | 2009 | \$0 | \$0 | \$0 | 2009 | \$212,750 | \$1,225 | \$1,143 |
| -13 | 2010 | \$4,152 | \$0 | \$1,000 | 2010 | \$0 | \$0 | \$0 | 2010 | \$5,737 | \$1,225 | \$1,143 |
| -14 | 2011 | \$4,024 | \$0 | \$1,000 | 2011 | \$0 | \$0 | \$0 | 2011 | \$5,909 | \$1,225 | \$1,143 |
| -15 | 2012 | \$55,019 | \$0 | \$1,000 | 2012 | \$0 | \$0 | \$0 | 2012 | \$85,000 | \$1,225 | \$1,143 |
| -16 | 2013 | \$4,483 | \$0 | \$1,000 | 2013 | \$0 | \$0 | \$0 | 2013 | \$6,268 | \$1,225 | \$1,143 |
| -17 | 2014 | \$4,565 | \$0 | \$1,000 | 2014 | \$0 | \$0 | \$0 | 2014 | \$6,457 | \$1,225 | \$1,143 |
| -18 | 2015 | \$4,735 | \$0 | \$1,000 | 2015 | \$0 | \$0 | \$0 | 2015 | \$6,457 | \$1,225 | \$1,143 |
| -19 | 2016 | \$4,854 | \$0 | \$1,000 | 2016 | \$0 | \$0 | \$0 | 2016 | \$6,650 | \$2,041 | \$1,143 |
| | Total | \$178,245 | \$0 | \$20,000 | | \$109,064 | \$0 | \$769 | | \$444,292 | \$10,616 | \$9,913 |

(Note: Obligations to date are derived from CWPPRA Cost Sharing Computations dated June 12, 2008 in addition to updated charges by DNR & USFWS)

SUMMARY:

Benefits:

| Original Net Acres | Revised Net Acres |
|--------------------|-------------------|
| 865 | 865 |

Approved O&M Budget vs Obligations to Date: Increment Years -0 through -11

| Funding Category | Approved Original O&M Baseline | O&M Obligations to Date | Difference |
|-------------------|--------------------------------|-------------------------|------------|
| State O&M & Insp. | \$92,428 | \$109,064 | (\$16,636) |
| Corps Admin | \$0 | \$0 | \$0 |
| Fed S&A & Insp | \$12,000 | \$769 | \$11,231 |
| Totals | \$104,428 | \$109,833 | (\$5,405) |

Current Request:

| Current Increment Funding Request Year | Proposed Revised Estimate | Remaining Available O&M Budget | Current Funding Request Amount |
|--|---------------------------|--------------------------------|--------------------------------|
| Year -12 | \$215,118 | | |
| Year -13 | \$8,105 | | |
| Year -14 | \$8,277 | | |
| Totals | \$231,500 | \$136,309 | \$95,191 |

Approved Budgeted O&M Funds less O&M Obligations to Date:

| | Total Approved O&M | O&M Obligations to Date | Remaining Available O&M Budget |
|--------------------|--------------------|-------------------------|--------------------------------|
| 1997 App. Budget | \$198,245 | | |
| 2007 Funding Incr. | \$47,897 | | |
| Totals | \$246,142 | \$109,833 | \$136,309 |

Original Approved vs Proposed Revised Fully Funded Estimates:

| Approved Fully Funded Baseline Estimate | Approved Net Budget Changes to E&D, Constr., O&M (1997, 2007) and Monitoring | Additional O&M funding required for remaining project life | Requested Revised Fully Funded Estimate |
|---|--|--|---|
| \$660,460 | \$378,732 | \$218,679 | \$1,257,871 |

Total Approved Budget less Total Proposed Revised Budget

| Funding Category | Current Total | Proposed Revised Total | Difference |
|-------------------|---------------|------------------------|-------------|
| State O&M & Insp. | \$226,142 | \$444,292 | (\$218,150) |
| Corps Admin | \$0 | \$10,616 | (\$10,616) |
| Fed S&A & Insp | \$20,000 | \$9,913 | \$10,087 |
| Total | \$246,142 | \$464,821 | (\$218,679) |

Change in Total Cost and Cost Effectiveness:

| As Compared To Original Fully Funded Baseline Est. | Cost Estimate % Change | Cost Effectiveness | Revised Cost Effectiveness |
|---|------------------------|--------------------|----------------------------|
| Approved Fully Funded Baseline Est. Plus Net Budget Changes | 90.45% | 764 | 1,454 |
| | 21.04% | 1,201 | 1,454 |

Note: 2012 (Year 15 of the project) O&M repairs include (1) repair/replacement of handrails (2) repair of sheet pile wall.

**Request for CWPPRA Project O&M Funding Increase
Project Costs and Benefits Reevaluation
Fact Sheet
September 10, 2008**

Project Name: Black Bayou Hydrologic Restoration Project (CS-27)

PPL: 6

Federal Sponsor: NMFS

Construction Completion Date: December 2001

Projected Project Close-out Date: December 2021

Project Description: A 22,600 linear foot rock dike was placed on the southern spoil bank of the GIWW. A barge bay weir (70-foot bottom width) was constructed in Black Bayou Cutoff Canal. Weirs with boat bays (10-foot bottom widths) were constructed in Burton Canal and Block's Creek. A collapsed weir was plugged and replaced with an SRT gate and adjacent rock plug. Spoil material was deposited in nearby marsh and 55,000 vegetative plants were installed over two planting seasons.

Construction changes from the approved project: Navigational warning signs were placed at two locations along the GIWW to warn local boaters of the newly constructed rock dike. A boat barrier was added to the SRT gate location to prevent possible vandalism and a railing added for public safety. "C" type stone was placed in several locations along the GIWW where there existed "water" connections between the marsh and the GIWW. This work was paid for with O&M monies.

Explain why O&M funding increase is needed: The "C" type stone locations have developed small breaches in several areas and are need of repair. There are low areas on the rock dike along the GIWW and rock plug, and missing signs and staff gages. The newly installed flap on the SRT gate is in need of repair. Since the last funding request site conditions have changed which increase the construction cost. In addition fuel costs have increased over the past year which in turn has caused bid prices to also increase.

Detail O&M work conducted to date: Navigational lights were repaired at Black Bayou Cut-Off Canal in October 2003. After Hurricane RITA, navigational lights were repaired at Black Bayou Cut-Off Canal, Block's Creek and Burton Canal in May 2006. The cross sectional area at the SRT gate was reduced by adding a flap to the railing. Two 30" flapgated culverts were also added along the southern boundary in January 2006. Navigational lights at Burton Canal, Black Bayou Cut-Off Canal and Block's Creek were repaired again in January 2007. The SRT flap gate and two flapgated culverts have now become features to be maintained as part of this project.

Detail and date of next O&M work to be completed: Recommend placing bags of concrete to elevate low area along the GIWW dike. Also, place bags of sack concrete at breach locations, rock plug and install navigational sign at Burton Canal. Install new staff gages at Burton Canal and GIWW locations. Repair the flap gate on the SRT gate. This work should be complete by December 2008.

Detail of future O&M work to be completed: Anticipate need for general maintenance on the SRT gate and capping of boat and barge bay at Black Bayou Cut-Off Canal in 2015.

Originally approved fully funded project cost estimate: \$6,316,800

Originally approved O&M budget: \$592,986

Approved O&M Budget Increases (2007): \$53,508

Total O&M obligations to date: \$487,918

Remaining available O&M budget funds: \$158,576

Current Incremental Funding Request: \$124,359

Revised fully funded cost estimate: \$6,476,153

Total Project Life Budget Increase: \$475,433

Requested Revised fully funded O&M estimate: \$1,121,927

Percent total project cost increase of proposed revised budget over original budget plus net budget changes: 2.52%

Original net benefits based on WVA prepared when project was approved: 3594 acres

Estimate of cumulative project wetland acres to date (from quantitative and/or qualitative analysis): 3594 acres

Revised estimate of project benefits in net acres through 20 year project life based on the project with and without continued O&M (include description of method used to determine estimate): No anticipated change in estimated net benefits, project is performing as expected.

Original plus net budget changes and revised cost effectiveness (cost/net acre) and percent change:

Original CE = \$1,757/acre

Revised CE = \$1,802/acre 2.52%

Request for CWPPRA Project O&M Funding Increase
Project Performance Synopsis
July 30, 2008

Black Bayou Hydrologic Restoration (CS-27)

The project has been successful at increasing freshwater retention in order to reduce salinity during normal weather cycles (salinity typically ranges from 0.5 – 3 ppt). Discrete salinity data suggest that mean salinities were reduced within the project area through 2004, especially in interior portions of the project area. Salinities were substantially lower inside the project area than the GIWW and slightly lower inside than outside project structures as water was flowing out of the project during the inspection trip in November 2007. Comparing continuous hydrologic data within the eastern side of the project area through 2004, salinity and water levels were typically higher but less variable inside the impoundment than outside as salinity and water level spikes are attenuated inside the impoundment. Following the surge of salty water from Hurricane Rita (late September 2005), data from the continuous recorder inside the impoundment displayed decreases in water level through mid January and salinity through July 2006. Unfortunately, no comparable data from this time period is available near the GIWW west of the Calcasieu Ship Channel. Four CRMS-*Wetlands* sites have been established in the project area since April 2006; however, hydrologic data recorders are still needed outside the project area along the GIWW.

In the early stages of evaluating the establishment of emergent wetland vegetation, we compared land:water analyses from aerial photography acquired before construction in November 2000 and after construction in November 2004 performed by the U.S. Geological Survey. The project area increased land cover by 0.55% from 2000 to 2004 (1 year preconstruction to 3 years post construction). During this same time, the reference area increased land cover by 1.97%, overall, out pacing the project area by 1.42%. Unfortunately, full interpretation of this land change data for project effectiveness is limited by the small percentages that are less than the acceptable error of 5-10% for comparing time intervals (Pers. Comm. John Barras). However, trends described by future data collections (2009 and 2016) will be more useful in describing project effects. Also, the current technique uses only describes overall change; more detailed analyses depicting where change occurs would be beneficial for interpreting the data. In 2002 and 2003, approximately 177,850 linear feet of bullwhip (*Schoenoplectus californicus*) was planted in shallow open water areas across the northern portions of the project area in two phases. Sixty-eight percent of bullwhip planted on the east side of the project area (Phase I; either side of the BBCC) in 2002 survived to the next year. Some plots had robust, healthy plants almost indistinguishable, whereas, other plots had plants with few stems in deteriorated condition. Similar observations were noted during an inspection of planted bullwhip on the west side of the project (Phase II) in April 2008.

The foreshore dike has not only effectively reduced shoreline erosion along the GIWW; but the shoreline has widened along the northern boundary of the impounded unit. Overall, this wider shoreline should provide protection to the emergent wetland vegetation within this portion of the project. However, at least one breach still exists which allows for hydrologic exchange and causes localized scouring.

The occurrence of SAV has remained high since before project construction and has mainly been affected by forcing functions on the region, such as Hurricane Rita (2005). Occurrence of SAV in the

Reference ponds is typically less than in ponds located the middle portion just west of the Black Bayou Cut-off Canal; however, SAV occurrences in the Reference has been similar to the areas on the west (along the Sabine River) and east (the impoundment) ends of the project area. Among the project areas, the impounded unit has recovered the least since Hurricane Rita.

CWPPRA Project O&M Budget Adjustment Template

Project Name: Black Bayou Hydrologic Restoration CS-27
 PPL: 6
 Project Sponsor: NMFS

Prepared By: CPRA
 Date Prepared: 9/10/2008
 Date Revised:

| Approved Original Base Line | | | | | Obligations to Date | | | | | Proposed Revised Estimate and Schedule | | | | |
|-----------------------------|-------|-------------------|-------------|----------------|---------------------|-------------------|-------------|----------------|------|--|-------------|----------------|--|--|
| Year | FY | State O&M & Insp. | Corps Admin | Fed S&A & Insp | FY | State O&M & Insp. | Corps Admin | Fed S&A & Insp | FY | O&M & State Insp. | Corps Admin | Fed S&A & Insp | | |
| 0 | 2002 | \$4,534 | \$0 | \$0 | 2002 | \$0 | \$0 | \$0 | 2002 | \$0 | \$0 | \$0 | | |
| -1 | 2003 | \$4,670 | \$0 | \$0 | 2003 | \$0 | \$0 | \$0 | 2003 | \$0 | \$0 | \$0 | | |
| -2 | 2004 | \$4,810 | \$0 | \$0 | 2004 | \$0 | \$0 | \$0 | 2004 | \$0 | \$0 | \$0 | | |
| -3 | 2005 | \$4,955 | \$0 | \$0 | 2005 | \$0 | \$0 | \$0 | 2005 | \$0 | \$0 | \$0 | | |
| -4 | 2006 | \$5,250 | \$0 | \$0 | 2006 | \$0 | \$0 | \$0 | 2006 | \$0 | \$0 | \$0 | | |
| -5 | 2007 | \$264,563 | \$0 | \$0 | 2007 | \$449,586 | \$0 | \$0 | 2007 | \$449,586 | \$0 | \$0 | | |
| -6 | 2008 | \$5,570 | \$0 | \$0 | 2008 | \$38,332 | \$0 | \$0 | 2008 | \$38,332 | \$0 | \$0 | | |
| -7 | 2009 | \$5,737 | \$0 | \$0 | 2009 | \$0 | \$0 | \$0 | 2009 | \$263,289 | \$0 | \$2,000 | | |
| -8 | 2010 | \$5,909 | \$0 | \$0 | 2010 | \$0 | \$0 | \$0 | 2010 | \$6,737 | \$0 | \$2,000 | | |
| -9 | 2011 | \$6,086 | \$0 | \$0 | 2011 | \$0 | \$0 | \$0 | 2011 | \$6,909 | \$0 | \$2,000 | | |
| -10 | 2012 | \$215,309 | \$0 | \$0 | 2012 | \$0 | \$0 | \$0 | 2012 | \$7,086 | \$0 | \$2,000 | | |
| -11 | 2013 | \$6,456 | \$0 | \$0 | 2013 | \$0 | \$0 | \$0 | 2013 | \$7,268 | \$0 | \$2,000 | | |
| -12 | 2014 | \$6,650 | \$0 | \$0 | 2014 | \$0 | \$0 | \$0 | 2014 | \$7,457 | \$0 | \$2,000 | | |
| -13 | 2015 | \$6,850 | \$0 | \$0 | 2015 | \$0 | \$0 | \$0 | 2015 | \$250,000 | \$0 | \$8,957 | | |
| -14 | 2016 | \$7,055 | \$0 | \$0 | 2016 | \$0 | \$0 | \$0 | 2016 | \$7,849 | \$0 | \$2,000 | | |
| -15 | 2017 | \$7,267 | \$0 | \$0 | 2017 | \$0 | \$0 | \$0 | 2017 | \$8,055 | \$0 | \$2,000 | | |
| -16 | 2018 | \$7,485 | \$0 | \$0 | 2018 | \$0 | \$0 | \$0 | 2018 | \$8,267 | \$0 | \$2,000 | | |
| -17 | 2019 | \$7,710 | \$0 | \$0 | 2019 | \$0 | \$0 | \$0 | 2019 | \$8,485 | \$0 | \$2,000 | | |
| -18 | 2020 | \$7,941 | \$0 | \$0 | 2020 | \$0 | \$0 | \$0 | 2020 | \$8,709 | \$0 | \$2,000 | | |
| -19 | 2021 | \$8,179 | \$0 | \$0 | 2021 | \$0 | \$0 | \$0 | 2021 | \$8,941 | \$0 | \$4,000 | | |
| | Total | \$592,986 | \$0 | \$0 | | \$487,918 | \$0 | \$0 | | \$1,086,970 | \$0 | \$34,957 | | |

SUMMARY:

Benefits:

| Original Net Acres | Revised Net Acres |
|--------------------|-------------------|
| 3594 | 3594 |

Approved O&M Budget vs Obligations to Date: Increment Years -0 through -6

| Funding Category | Approved Original O&M Baseline | O&M Obligations to Date | Difference |
|-------------------|--------------------------------|-------------------------|-------------|
| State O&M & Insp. | \$294,352 | \$487,918 | (\$193,566) |
| Corps Admin | \$0 | \$0 | \$0 |
| Fed S&A & Insp | \$0 | \$0 | \$0 |
| Totals | \$294,352 | \$487,918 | (\$193,566) |

Current Request:

| Current Increment Funding Request Year | Proposed Revised Estimate | Remaining Available O&M Budget | Current Funding Request Amount |
|--|---------------------------|--------------------------------|--------------------------------|
| Year -7 | \$265,289 | | |
| Year -8 | \$8,737 | | |
| Year -9 | \$8,909 | | |
| Totals | \$282,935 | \$158,576 | \$124,359 |

Approved Budgeted O&M Funds less O&M Obligations to Date:

| | Total Approved O&M | O&M Obligations to Date | Remaining Available O&M Budget |
|--------------------|--------------------|-------------------------|--------------------------------|
| 2001 App. Budget | \$592,986 | | |
| 2007 Funding Incr. | \$53,508 | | |
| Totals | \$646,494 | \$487,918 | \$158,576 |

Original Approved vs Proposed Revised Fully Funded Estimates:

| Approved Fully Funded Baseline Estimate | Approved Net Budget Changes to E&D, Constr., O&M (2001,2007) and Monitoring* | Additional O&M funding required for remaining project life | Requested Revised Fully Funded Estimate |
|---|--|--|---|
| \$6,316,800 | -\$316,080 | \$475,433 | \$6,476,153 |

*Note: This figure denotes the difference between DNR 2007 Annual Report and CWPPRA Cost Sharing Computation dated 6-12-08.

Total Approved Budget less Total Proposed Revised Budget

| Funding Category | Current Total | Proposed Revised Total | Difference |
|-------------------|---------------|------------------------|-------------|
| State O&M & Insp. | \$646,494 | \$1,086,970 | (\$440,476) |
| Corps Admin | \$0 | \$0 | \$0 |
| Fed S&A & Insp | \$0 | \$34,957 | (\$34,957) |
| Total | \$646,494 | \$1,121,927 | (\$475,433) |

Change in Total Cost and Cost Effectiveness:

| Fully Funded Cost Estimate % Change | Original Cost Effectiveness | Revised Cost Effectiveness |
|-------------------------------------|-----------------------------|----------------------------|
| 2.52% | \$1,758 | \$1,802 |

Note: 2015 (Year 13 of the project) O&M repairs include (1) capping of boat & barge bay (2) general maintenance on SRT gate.

**Request for CWPPRA Project O&M Funding Increase
Project Costs and Benefits Reevaluation
Fact Sheet
September 10, 2008**

Project Name: Freshwater Bayou Wetland Protection Project (ME-04)

PPL: 2

Federal Sponsor: NRCS

Construction Completion Date: March 1995

Projected Project Close-out Date: January 2014

Project Description: Approximately 28,000 linear feet of freestanding, continuous foreshore rock dike were built along the west bank of Freshwater Bayou Canal to prevent further bank line erosion.

Construction changes from the approved project: No changes.

Explain why O&M funding increase is needed: The current budget shortfall represents three years worth of O&M inspections in addition to budget corrections from FY 06.

Detail O&M work conducted to date: Additional rock capping with 26,750 tons of 1,000 # rock for a length of 15,263 linear feet to elevate low sections of existing dike. This work was completed in April 2002. In December 2005 another rock capping maintenance event was performed which accounted for 21,370 tons of 1,250 # rock for a length of 11,426 linear feet.

Detail and date of next O&M work to be completed: No O&M work currently planned.

Detail of future O&M work to be completed: No maintenance work anticipated.

Originally approved fully funded project cost estimate: \$2,770,093

Originally approved O&M budget: \$752,457

Approved O&M Budget Increases (2004): \$506,109

Total O&M obligations to date: \$1,336,464

Remaining available O&M budget funds: \$ (77,898)

Current Incremental Funding Request: \$98,860

Revised fully funded cost estimate: \$3,557,031

Total Project Life Budget Increase: \$121,646

Requested Revised fully funded O&M estimate: \$1,380,212

Percent total project cost increase of proposed revised budget over original budget: 29.13%

Original net benefits based on WVA prepared when project was approved: 1593 acres

Estimate of cumulative project wetland acres to date (from quantitative and/or qualitative analysis): 1593 acres.

Revised estimate of project benefits in net acres through 20 year project life based on the project with and without continued O&M (include description of method used to determine estimate): No anticipated change in estimated benefits, project is performing as expected.

Original and revised cost effectiveness (cost/net acre) and percent change:

Original CE = \$1,739/acre

Revised CE = \$2,245/acre 29.13%

Request for CWPPRA Project O&M Funding Increase
Project Performance Synopsis
August 4, 2008

Freshwater Bayou Wetlands (ME-04)

Shoreline along the west bank of FBC in the project area has benefited from the construction of the rock dike, as indicated by the significantly reduced erosion rates relative to the reference areas. However, the rate of erosion increases when the elevation of the rock material sinks below the originally constructed top elevation, as noted in 2001. Maintenance events in 2002 and 2005 lifted the rock dike back to the prescribed elevations.

Between 1996 and 2001 there was little or no increase of total vegetation cover or height at monitoring stations within the project area. Habitat analysis indicates that intermediate and brackish marsh has overtaken former areas of fresh marsh in the southeastern part of the ME-04 project area.

In addition, vegetation in the project area was severely impacted by Hurricane Rita and is slowly recovering, although species assemblages are reverting to more salt tolerant species. The fresher species present in the area before Hurricane Rita, *Sagittaria lancifolia*, *Panicum hemitomon*, and *Eleocharis fallax*, were killed by the storm surge and have not as yet re-established. *Echinochloa walterii* had a fair amount of cover in 2006 but very little in 2007. *Juncus roemerianus*, a salt tolerant species, emerged after the storm and is proliferating. Fresher species such as *Schoenoplectus californicus*, *S. pungens*, *Typha* sp., and *Panicum dichotomiflorum* were present in 2007.

Prior to Hurricane Rita, approximately 92% of the vegetation stations utilized for this survey were healthy and intact. Following Hurricane Rita in 2005, 90% of the stations were stressed or had converted to open water (Figure 1). By 2007, 70% of the stations had recovered while 14 % reverted to open water and an addition 12% remained severely stressed. It is likely that the Open water stations in ME-04 may recover.

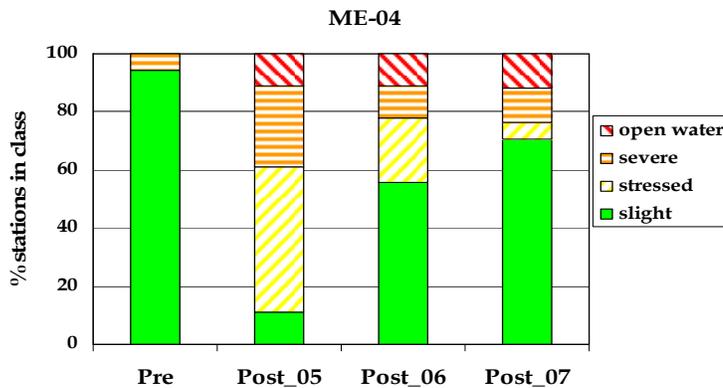


Figure 1. Percent of LDNR Vegetation stations in each stress class before and after Hurricane Rita in the ME-04 project.

CWPPRA Project O&M Budget Adjustment Template

Project Name: Freshwater Bayou Wetlands ME-04
 PPL: 2
 Project Sponsor: NRCS

Prepared By: CPRA
 Date Prepared: 9/10/2008
 Date Revised:

| Approved Original Base Line (includes TF approved increase from Jan 1999) | | | | | Obligations to Date | | | | Proposed Revised Estimate and Schedule | | | |
|--|-------|-------------------|-------------|----------------|---------------------|-------------------|-------------|----------------|--|-------------------|-------------|----------------|
| Year | FY | State O&M & Insp. | Corps Admin | Fed S&A & Insp | FY | State O&M & Insp. | Corps Admin | Fed S&A & Insp | FY | O&M & State Insp. | Corps Admin | Fed S&A & Insp |
| 0 | 1995 | \$6,404 | \$0 | \$0 | 1995 | \$0 | \$0 | \$0 | 1995 | \$0 | \$0 | \$0 |
| -1 | 1996 | \$6,602 | \$0 | \$0 | 1996 | \$0 | \$0 | \$0 | 1996 | \$0 | \$0 | \$0 |
| -2 | 1997 | \$6,806 | \$0 | \$0 | 1997 | \$0 | \$0 | \$0 | 1997 | \$0 | \$0 | \$0 |
| -3 | 1998 | \$7,017 | \$0 | \$0 | 1998 | \$0 | \$0 | \$0 | 1998 | \$0 | \$0 | \$0 |
| -4 | 1999 | \$7,234 | \$0 | \$0 | 1999 | \$0 | \$0 | \$0 | 1999 | \$0 | \$0 | \$0 |
| -5 | 2000 | \$331,856 | \$0 | \$0 | 2000 | \$0 | \$0 | \$0 | 2000 | \$0 | \$0 | \$0 |
| -6 | 2001 | \$7,689 | \$0 | \$0 | 2001 | \$0 | \$0 | \$0 | 2001 | \$0 | \$0 | \$0 |
| -7 | 2002 | \$7,927 | \$0 | \$0 | 2002 | \$0 | \$0 | \$0 | 2002 | \$0 | \$0 | \$0 |
| -8 | 2003 | \$8,172 | \$0 | \$0 | 2003 | \$0 | \$0 | \$0 | 2003 | \$0 | \$0 | \$0 |
| -9 | 2004 | \$8,425 | \$0 | \$0 | 2004 | \$0 | \$0 | \$0 | 2004 | \$0 | \$0 | \$0 |
| -10 | 2005 | \$8,677 | \$0 | \$0 | 2005 | \$0 | \$0 | \$0 | 2005 | \$0 | \$0 | \$0 |
| -11 | 2006 | \$8,938 | \$0 | \$0 | 2006 | \$82,900 | \$0 | \$0 | 2006 | \$82,900 | \$0 | \$0 |
| -12 | 2007 | \$9,206 | \$0 | \$0 | 2007 | \$266,854 | \$0 | \$982,422 | 2007 | \$266,854 | \$0 | \$982,422 |
| -13 | 2008 | \$9,482 | \$0 | \$0 | 2008 | \$3,088 | \$0 | \$1,200 | 2008 | \$3,088 | \$0 | \$1,200 |
| -14 | 2009 | \$9,767 | \$0 | \$0 | 2009 | \$0 | \$0 | \$0 | 2009 | \$5,570 | \$0 | \$1,224 |
| -15 | 2010 | \$264,907 | \$0 | \$0 | 2010 | \$0 | \$0 | \$0 | 2010 | \$5,737 | \$0 | \$1,249 |
| -16 | 2011 | \$10,361 | \$0 | \$0 | 2011 | \$0 | \$0 | \$0 | 2011 | \$5,909 | \$0 | \$1,273 |
| -17 | 2012 | \$10,672 | \$0 | \$0 | 2012 | \$0 | \$0 | \$0 | 2012 | \$6,086 | \$0 | \$1,299 |
| -18 | 2013 | \$10,993 | \$0 | \$0 | 2013 | \$0 | \$0 | \$0 | 2013 | \$6,268 | \$0 | \$1,325 |
| -19 | 2014 | \$11,322 | \$0 | \$0 | 2014 | \$0 | \$0 | \$0 | 2014 | \$6,457 | \$0 | \$1,351 |
| | Total | \$752,457 | \$0 | \$0 | | \$352,842 | \$0 | \$983,622 | | \$388,869 | \$0 | \$991,343 |

SUMMARY:

Benefits:

| Original Net Acres | Revised Net Acres |
|--------------------|-------------------|
| 1593 | 1593 |

Approved O&M Budget vs Obligations to Date: Increment Years -0 through -13

| Funding Category | Approved Original O&M Baseline | O&M Obligations to Date | Difference |
|-------------------|--------------------------------|-------------------------|-------------|
| State O&M & Insp. | \$434,435 | \$352,842 | \$81,593 |
| Corps Admin | \$0 | \$0 | \$0 |
| Fed S&A & Insp | \$0 | \$983,622 | (\$983,622) |
| Totals | \$434,435 | \$1,336,464 | (\$902,029) |

Current Request:

| Current Increment Funding Request Year | Proposed Revised Estimate | Remaining Available O&M Budget | Current Funding Request Amount |
|--|---------------------------|--------------------------------|--------------------------------|
| Year -14 | \$6,794 | | |
| Year -15 | \$6,986 | | |
| Year -16 | \$7,182 | | |
| Totals | \$20,962 | (\$77,898) | \$98,860 |

Approved Budgeted O&M Funds less O&M Obligations to Date:

| | Total Approved O&M | O&M Obligations to Date | Remaining Available O&M Budget |
|--------------------|--------------------|-------------------------|--------------------------------|
| 1999 App. Budget | \$752,457 | | |
| 2004 Funding Incr. | \$506,109 | | |
| Totals | \$1,258,566 | \$1,336,464 | (\$77,898) |

Original Approved vs Proposed Revised Fully Funded Estimates:

| Approved Fully Funded Baseline Estimate | Approved Net Budget Changes to E&D, Constr., O&M (1999, 2004) and Monitoring | Additional O&M funding required for remaining project life | Requested Revised Fully Funded Estimate |
|---|--|--|---|
| \$2,770,093 | \$685,292 | \$121,646 | \$3,577,031 |

Total Approved Budget less Total Proposed Revised Budget

| Funding Category | Current Total | Proposed Revised Total | Difference |
|-------------------|---------------|------------------------|-------------|
| State O&M & Insp. | \$1,258,566 | \$388,869 | \$869,697 |
| Corps Admin | \$0 | \$0 | \$0 |
| Fed S&A & Insp | \$0 | \$991,343 | (\$991,343) |
| Total | \$1,258,566 | \$1,380,212 | (\$121,646) |

Change in Total Cost and Cost Effectiveness:

| Fully Funded Cost Estimate % Change | Original Cost Effectiveness | Revised Cost Effectiveness |
|-------------------------------------|-----------------------------|----------------------------|
| 29.13% | \$1,739 | \$2,245 |

**Request for CWPPRA Project O&M Funding Increase
Project Costs and Benefits Reevaluation
Fact Sheet
September 10, 2008**

Project Name: Freshwater Bayou Bank Stabilization Project (ME-13)

PPL: 5

Federal Sponsor: NRCS

Construction Completion Date: June 1998

Projected Project Close-out Date: January 2017

Project Description: Approximately 23,193 linear feet of freestanding foreshore rock dike were constructed in shallow water along the west bank of Freshwater Bayou Canal to prevent further bank line erosion.

Construction changes from the approved project: No changes.

Explain why O&M funding increase is needed: The current budget shortfall represents three years worth of O&M inspections in addition to budget corrections from FY 06.

Detail O&M work conducted to date: Additional rock capping with 20,987 tons of 1,250 # rock for a length of 9,130 linear feet to elevate low sections of existing dike. This work was completed in December 2005.

Detail and date of next O&M work to be completed: No O&M work currently planned.

Detail of future O&M work to be completed: No maintenance is anticipated.

Originally approved fully funded project cost estimate: \$3,998,919

Originally approved O&M budget: \$575,510

Total O&M obligations to date: \$589,588

Remaining available O&M budget funds: \$(14,078)

Current Incremental Funding Request: \$35,040

Revised fully funded cost estimate: \$2,626,066

Total Project Life Budget Increase: \$82,599

Requested Revised fully funded O&M estimate: \$658,109

Percent total project cost increase of proposed revised budget over original budget: -34.33%

Original net benefits based on WVA prepared when project was approved: 511 acres

Estimate of cumulative project wetland acres to date (from quantitative and/or qualitative analysis): 511 acres.

Revised estimate of project benefits in net acres through 20 year project life based on the project with and without continued O&M (include description of method used to determine estimate): No anticipated change in estimated benefits, project is performing as expected.

Original and revised cost effectiveness (cost/net acre) and percent change:

Original CE = \$7,826/acre

Revised CE = \$5,139/acre -34.33%

Request for CWPPRA Project O&M Funding Increase
Project Performance Synopsis
August 4, 2008

Freshwater Bayou Shoreline Protection (ME-13)

The ME-13 project appears to be meeting its specific goal of reducing shoreline erosion along the west bank of Freshwater Bayou Canal behind the project rock dike. The shoreline is prograding behind the protection of the rock dike at an average rate of 0.84 ft/yr (0.26 m/yr) and the unprotected reference areas are eroding at an average rate of -11.94 ft/yr (-3.64 m/yr) based on analysis of post-construction data for the five-year period beginning July 21, 1998 and ending July 21, 2003.

Variation in the shoreline retreat rate along the project and reference area shorelines may be related to the erodibility of the substrate. Marsh soils erode more rapidly than spoil bank soils, which erode more rapidly than shell ridges. Additionally, variability in the project area may be related to crown height of the rock dike. The rate of erosion increases when the elevation of the rock material sinks below the originally constructed top elevation. Shoreline measurements in 2009 will provide further indications of project effectiveness.

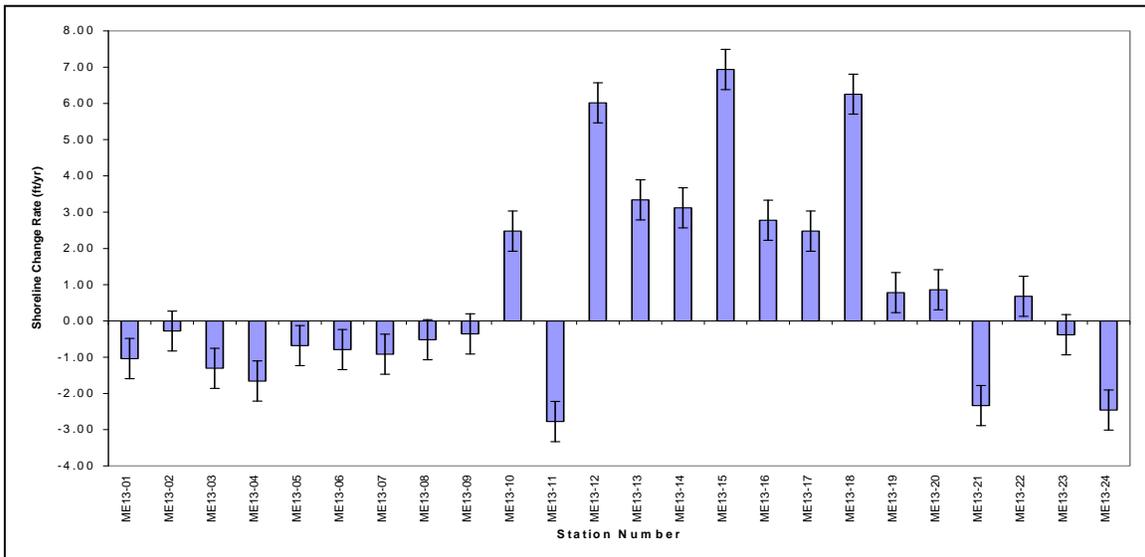


Figure 1. Shoreline change rate (ft/yr) along Freshwater Bayou Canal at the ME-13 project area stations for the July 23, 1998 – July 21, 2003 time period. Error bars represent ± 1 standard error of the mean of all stations.

CWPPRA Project O&M Budget Adjustment Template

Project Name: Freshwater Bayou Bank Stabilization ME-13
 PPL: 5
 Project Sponsor: NRCS

Prepared By: CPRA
 Date Prepared: 9/10/2008
 Date Revised:

| Approved Original Base Line (includes TF approved increase from Jan 1999) | | | | | Obligations to Date | | | | Proposed Revised Estimate and Schedule | | | |
|--|-------|-------------------|-------------|----------------|---------------------|-------------------|-------------|----------------|--|-------------------|-------------|----------------|
| Year | FY | State O&M & Insp. | Corps Admin | Fed S&A & Insp | FY | State O&M & Insp. | Corps Admin | Fed S&A & Insp | FY | O&M & State Insp. | Corps Admin | Fed S&A & Insp |
| 0 | 1998 | \$2,755 | \$0 | \$0 | 1998 | \$0 | \$0 | \$0 | 1998 | \$0 | \$0 | \$0 |
| -1 | 1999 | \$2,840 | \$0 | \$0 | 1999 | \$0 | \$0 | \$0 | 1999 | \$0 | \$0 | \$0 |
| -2 | 2000 | \$2,928 | \$0 | \$0 | 2000 | \$0 | \$0 | \$0 | 2000 | \$0 | \$0 | \$0 |
| -3 | 2001 | \$3,019 | \$0 | \$0 | 2001 | \$0 | \$0 | \$0 | 2001 | \$0 | \$0 | \$0 |
| -4 | 2002 | \$3,113 | \$0 | \$0 | 2002 | \$0 | \$0 | \$0 | 2002 | \$0 | \$0 | \$0 |
| -5 | 2003 | \$284,132 | \$0 | \$0 | 2003 | \$0 | \$0 | \$0 | 2003 | \$0 | \$0 | \$0 |
| -6 | 2004 | \$3,309 | \$0 | \$0 | 2004 | \$0 | \$0 | \$0 | 2004 | \$0 | \$0 | \$0 |
| -7 | 2005 | \$3,411 | \$0 | \$0 | 2005 | \$0 | \$0 | \$0 | 2005 | \$0 | \$0 | \$0 |
| -8 | 2006 | \$3,517 | \$0 | \$0 | 2006 | \$28,532 | \$0 | \$0 | 2006 | \$28,532 | \$0 | \$0 |
| -9 | 2007 | \$3,626 | \$0 | \$0 | 2007 | \$78,153 | \$0 | \$479,245 | 2007 | \$78,153 | \$0 | \$479,245 |
| -10 | 2008 | \$3,735 | \$0 | \$0 | 2008 | \$2,458 | \$0 | \$1,200 | 2008 | \$2,458 | \$0 | \$1,200 |
| -11 | 2009 | \$3,847 | \$0 | \$0 | 2009 | \$0 | \$0 | \$0 | 2009 | \$5,570 | \$0 | \$1,224 |
| -12 | 2010 | \$3,962 | \$0 | \$0 | 2010 | \$0 | \$0 | \$0 | 2010 | \$5,737 | \$0 | \$1,249 |
| -13 | 2011 | \$4,081 | \$0 | \$0 | 2011 | \$0 | \$0 | \$0 | 2011 | \$5,909 | \$0 | \$1,273 |
| -14 | 2012 | \$4,203 | \$0 | \$0 | 2012 | \$0 | \$0 | \$0 | 2012 | \$6,086 | \$0 | \$1,299 |
| -15 | 2013 | \$224,376 | \$0 | \$0 | 2013 | \$0 | \$0 | \$0 | 2013 | \$6,268 | \$0 | \$1,325 |
| -16 | 2014 | \$4,459 | \$0 | \$0 | 2014 | \$0 | \$0 | \$0 | 2014 | \$6,457 | \$0 | \$1,351 |
| -17 | 2015 | \$4,593 | \$0 | \$0 | 2015 | \$0 | \$0 | \$0 | 2015 | \$6,650 | \$0 | \$1,378 |
| -18 | 2016 | \$4,731 | \$0 | \$0 | 2016 | \$0 | \$0 | \$0 | 2016 | \$6,850 | \$0 | \$1,406 |
| -19 | 2017 | \$4,873 | \$0 | \$0 | 2017 | \$0 | \$0 | \$0 | 2017 | \$7,055 | \$0 | \$1,434 |
| | Total | \$575,510 | \$0 | \$0 | | \$109,143 | \$0 | \$480,445 | | \$165,725 | \$0 | \$492,384 |

SUMMARY:

Benefits:

| Original Net Acres | Revised Net Acres |
|--------------------|-------------------|
| 511 | 511 |

Approved O&M Budget vs Obligations to Date: Increment Years -0 through -10

| Funding Category | Approved Original O&M Baseline | O&M Obligations to Date | Difference |
|-------------------|--------------------------------|-------------------------|-------------|
| State O&M & Insp. | \$316,385 | \$109,143 | \$207,242 |
| Corps Admin | \$0 | \$0 | \$0 |
| Fed S&A & Insp | \$0 | \$480,445 | (\$480,445) |
| Totals | \$316,385 | \$589,588 | (\$273,203) |

Current Request:

| Current Increment Funding Request Year | Proposed Revised Estimate | Remaining Available O&M Budget | Current Funding Request Amount |
|--|---------------------------|--------------------------------|--------------------------------|
| Year -11 | \$6,794 | | |
| Year -12 | \$6,986 | | |
| Year -13 | \$7,182 | | |
| Totals | \$20,962 | (\$14,078) | \$35,040 |

Approved Budgeted O&M Funds less O&M Obligations to Date:

| | Total Approved O&M | O&M Obligations to Date | Remaining Available O&M Budget |
|------------------|--------------------|-------------------------|--------------------------------|
| 1999 App. Budget | \$575,510 | \$589,588 | (\$14,078) |

Original Approved vs Proposed Revised Fully Funded Estimates:

| Approved Fully Funded Baseline Estimate | Approved Net Budget Changes to E&D, Constr., O&M (1999) and Monitoring | Additional O&M funding required for remaining project life | Requested Revised Fully Funded Estimate |
|---|--|--|---|
| \$3,998,919 | (\$1,455,452) | \$82,599 | \$2,626,066 |

Total Approved Budget less Total Proposed Revised Budget

| Funding Category | Current Total | Proposed Revised Total | Difference |
|-------------------|---------------|------------------------|-------------|
| State O&M & Insp. | \$575,510 | \$165,725 | \$409,785 |
| Corps Admin | \$0 | \$0 | \$0 |
| Fed S&A & Insp | \$0 | \$492,384 | (\$492,384) |
| Total | \$575,510 | \$658,109 | (\$82,599) |

Change in Total Cost and Cost Effectiveness:

| Fully Funded Cost Estimate % Change | Original Cost Effectiveness | Revised Cost Effectiveness |
|-------------------------------------|-----------------------------|----------------------------|
| -34.33% | \$7,826 | \$5,139 |

**Request for CWPPRA Project O&M Funding Increase
Project Costs and Benefits Reevaluation
Fact Sheet
September 10, 2008**

Project Name: Little Lake Shoreline Protection and Marsh Creation (BA-37)

PPL: 11

Federal Sponsor: NMFS

Construction Completion Date: March 2007

Projected Project Close-out Date: March 2027

Project Description: Construction of approximately four (4) miles of rock dike shoreline and 900+ acres of marsh creation and nourishment of existing marsh.

Construction changes from the approved project: No changes.

Explain why O&M funding increase is needed: The original approved O&M budget included post construction surveys in years 1, 3 and 5 to evaluate the initial consolidation of the disposal area and to track marsh elevations. After discussions with the LDNR design engineer and NMFS, it was decided that marsh surveys every year for the first five (5) years will provide a more accurate representation of consolidation of the disposal area. Therefore, marsh survey events were added for years 2 and 4.

Detail O&M work conducted to date: Year 1 marsh survey is currently in progress and should be completed by the end of August 2008.

Detail and date of next O&M work to be completed: Year 2 marsh surveys of the disposal area are scheduled to begin in May 2009.

Detail of future O&M work to be completed:

Marsh surveys in years 2010, 2011 and 2012.

Lift of rock rip rap along entire section of rock dike in 2012.

Annual field inspections.

Originally approved fully funded project cost estimate: \$33,993,846

Originally approved O&M budget: \$121,495

Approved O&M Budget Increases: \$0

Total O&M obligations to date: \$5,973

Remaining available O&M budget funds: \$115,522

Current Incremental Funding Request: \$58,949

Revised fully funded cost estimate: \$37,085,197

Total Project Life Budget Increase: \$3,091,351

Requested Revised fully funded O&M estimate: \$7,715,361

Percent total project cost increase of proposed revised budget over original budget: 9.09%

Original net benefits based on WVA prepared when project was approved: 713 acres

Estimate of cumulative project wetland acres to date (from quantitative and/or qualitative analysis): 713 acres

Revised estimate of project benefits in net acres through 20 year project life based on the project with and without continued O&M (include description of method used to determine estimate): 713 acres

Original and revised cost effectiveness (cost/net acre) and percent change:

Original CE = \$47,677/acre

Revised CE = \$52,013/acre

CWPPRA Project O&M Budget Adjustment Template

Project Name: Little Lake Shoreline Protection and Marsh Creation (BA-37)
 PPL: 11
 Project Sponsor: NMFS

Prepared By: CPRA
 Date Prepared: 9/10/2008
 Date Revised:

| Approved Original Base Line | | | | | Obligations to Date | | | | Proposed Revised Estimate and Schedule | | | | |
|-----------------------------|-------|-------------------|-------------|----------------|---------------------|-------------------|-------------|----------------|--|-------------------|-------------|----------------|-------------|
| Year | FY | State O&M & Insp. | Corps Admin | Fed S&A & Insp | FY | State O&M & Insp. | Corps Admin | Fed S&A & Insp | FY | O&M & State Insp. | Corps Admin | Fed S&A & Insp | |
| 0 | 2008 | \$53,540 | \$4,269 | \$0 | 2008 | \$5,973 | \$0 | \$0 | 2008 | \$53,341 | \$4,269 | \$1,247 | \$58,857 |
| -1 | 2009 | \$5,197 | \$938 | \$0 | 2009 | \$0 | \$0 | \$0 | 2009 | \$55,047 | \$938 | \$1,287 | \$57,272 |
| -2 | 2010 | \$56,583 | \$968 | \$0 | 2010 | \$0 | \$0 | \$0 | 2010 | \$56,810 | \$968 | \$1,328 | \$59,106 |
| -3 | 2011 | \$5,535 | \$999 | \$0 | 2011 | \$0 | \$0 | \$0 | 2011 | \$58,629 | \$999 | \$1,370 | \$60,998 |
| -4 | 2012 | \$60,730 | \$1,030 | \$0 | 2012 | \$0 | \$0 | \$0 | 2012 | \$6,867,006 | \$1,030 | \$156,390 | \$7,024,426 |
| -5 | 2013 | \$5,895 | \$1,063 | \$0 | 2013 | \$0 | \$0 | \$0 | 2013 | \$5,662 | \$1,063 | \$1,459 | \$8,184 |
| -6 | 2014 | \$83,091 | \$1,097 | \$0 | 2014 | \$0 | \$0 | \$0 | 2014 | \$5,843 | \$1,097 | \$1,506 | \$8,446 |
| -7 | 2015 | \$6,278 | \$1,133 | \$0 | 2015 | \$0 | \$0 | \$0 | 2015 | \$6,030 | \$1,133 | \$1,554 | \$8,717 |
| -8 | 2016 | \$6,478 | \$1,169 | \$0 | 2016 | \$0 | \$0 | \$0 | 2016 | \$6,223 | \$1,169 | \$1,604 | \$8,996 |
| -9 | 2017 | \$71,085 | \$1,206 | \$0 | 2017 | \$0 | \$0 | \$0 | 2017 | \$70,822 | \$1,206 | \$1,655 | \$73,683 |
| -10 | 2018 | \$6,901 | \$1,245 | \$0 | 2018 | \$0 | \$0 | \$0 | 2018 | \$6,628 | \$1,245 | \$1,708 | \$9,581 |
| -11 | 2019 | \$7,121 | \$1,285 | \$0 | 2019 | \$0 | \$0 | \$0 | 2019 | \$6,840 | \$1,285 | \$1,763 | \$9,888 |
| -12 | 2020 | \$7,349 | \$1,326 | \$0 | 2020 | \$0 | \$0 | \$0 | 2020 | \$7,059 | \$1,326 | \$1,819 | \$10,204 |
| -13 | 2021 | \$7,059 | \$1,368 | \$0 | 2021 | \$0 | \$0 | \$0 | 2021 | \$172,285 | \$1,368 | \$3,620 | \$177,273 |
| -14 | 2022 | \$4,176,149 | \$1,412 | \$0 | 2022 | \$0 | \$0 | \$0 | 2022 | \$82,906 | \$1,412 | \$1,938 | \$86,256 |
| -15 | 2023 | \$8,077 | \$1,457 | \$0 | 2023 | \$0 | \$0 | \$0 | 2023 | \$7,759 | \$1,457 | \$2,000 | \$11,216 |
| -16 | 2024 | \$8,336 | \$0 | \$0 | 2024 | \$0 | \$0 | \$0 | 2024 | \$8,007 | \$0 | \$2,064 | \$10,071 |
| -17 | 2025 | \$8,602 | \$0 | \$0 | 2025 | \$0 | \$0 | \$0 | 2025 | \$8,263 | \$0 | \$2,130 | \$10,393 |
| -18 | 2026 | \$8,877 | \$0 | \$0 | 2026 | \$0 | \$0 | \$0 | 2026 | \$8,528 | \$0 | \$2,198 | \$10,726 |
| -19 | 2027 | \$9,162 | \$0 | \$0 | 2027 | \$0 | \$0 | \$0 | 2027 | \$8,800 | \$0 | \$2,268 | \$11,068 |
| | Total | \$4,602,045 | \$21,965 | \$0 | | \$5,973 | \$0 | \$0 | | \$7,502,488 | \$21,965 | \$190,908 | \$7,715,361 |

(Note: Obligations to date are derived from CWPPRA Cost Sharing Computations dated June 12, 2008 in addition to updated charges by DNR & NMFS)

SUMMARY:

Benefits:

| Original Net Acres | Revised Net Acres |
|--------------------|-------------------|
| 713 | 713 |

Approved O&M Budget vs Obligations to Date: Increment Year -0

| Funding Category | Approved Original O&M Baseline | O&M Obligations to Date | Difference |
|-------------------|--------------------------------|-------------------------|------------|
| State O&M & Insp. | \$115,320 | \$5,973 | \$109,347 |
| Corps Admin | \$6,175 | \$0 | \$6,175 |
| Fed S&A & Insp | \$0 | \$0 | \$0 |
| Totals | \$121,495 | \$5,973 | \$115,522 |

Current Request:

| Current Increment Funding Request Year | Proposed Revised Estimate | Remaining Available O&M Budget | Current Funding Request Amount |
|--|---------------------------|--------------------------------|--------------------------------|
| Year -1 | \$56,334 | | |
| Year -2 | \$58,138 | | |
| Year -3 | \$59,999 | | |
| Totals | \$174,471 | \$115,522 | \$58,949 |

Approved Original Budgeted O&M Funds less O&M Obligations to Date:

| | Total Approved Original O&M Baseline | O&M Obligations to Date | Remaining Available O&M Budget |
|---------------------|--------------------------------------|-------------------------|--------------------------------|
| | \$121,495 | | |
| Prior Funding Incr. | \$0 | | |
| Totals | \$121,495 | \$5,973 | \$115,522 |

Original Approved vs Proposed Revised Fully Funded Estimates:

| Approved Fully Funded Baseline Estimate | Additional O&M funding required for remaining project life | Requested Revised Fully Funded Estimate |
|---|--|---|
| \$33,993,846 | \$3,091,351 | \$37,085,197 |

Total Approved Original Budget less Total Proposed Revised Budget

| Funding Category | Original Total | Proposed Revised Total | Difference |
|-------------------|----------------|------------------------|---------------|
| State O&M & Insp. | \$4,602,045 | \$7,502,488 | (\$2,900,443) |
| Corps Admin | \$21,965 | \$21,965 | \$0 |
| Fed S&A & Insp | \$0 | \$190,908 | (\$190,908) |
| Total | \$4,624,010 | \$7,715,361 | (\$3,091,351) |

Change in Total Cost and Cost Effectiveness:

| Fully Funded Cost Estimate % Change | Original Cost Effectiveness | Revised Cost Effectiveness |
|-------------------------------------|-----------------------------|----------------------------|
| 9.09% | \$47,677 | \$52,013 |

COASTWIDE NUTRIA CONTROL PROGRAM (LA-03B)

FEDERAL AGENCY: NRCS

| | TOTAL | Construction | O & M | Post Const Monitoring | COE Mgt |
|--|---------------------|--------------------|---------------------|--------------------------|----------------|
| TASK FORCE APPROVED PHASE II BUDGET (YEARS 1-9) | \$21,929,696 | \$1,682,839 | \$19,306,473 | \$933,150 | \$7,234 |
| EXPENDED: PROGRAM YR 1 (2002-2003) | \$1,797,063 | \$1,682,839 | | \$113,518 | \$706 |
| EXPENDED: PROGRAM YR 2 (2003-2004) | \$1,770,229 | | \$1,696,217 | \$73,283 | \$729 |
| EXPENDED: PROGRAM YR 3 (2004-2005) | \$1,580,451 | | \$1,523,412 | \$56,287 | \$752 |
| EXPENDED: PROGRAM YR 4 (2005-2006) | \$1,059,669 | | \$954,192 | \$104,701 | \$776 |
| EXPENDED: PROGRAM YR 5 (2006-2007) | \$2,366,367 | | \$2,290,206 | \$75,361 | \$801 |
| EXPENDED/ESTIMATED: PROGRAM YR 6 In Progress (2007-2008) | \$2,045,188 | | \$1,942,629 | \$101,732 | \$827 |
| ESTIMATED: PROGRAM YR 7 (2008-2009) | \$3,282,195 | | \$3,156,342 | \$125,000 | \$853 |
| ESTIMATED: PROGRAM YR 8 (2009-2010) | \$3,387,426 | | \$3,256,545 | \$130,000 | \$881 |
| ESTIMATED: PROGRAM YR 9 (2010-2011) | \$3,392,664 | | \$3,256,755 | \$135,000 | \$909 |
| EXPENDED/ESTIMATED THRU PROGRAM YEAR 9 | \$20,681,253 | \$1,682,839 | \$18,076,298 | \$914,882 | \$7,234 |
| PROJECTED AVAILABLE BALANCE AFTER PROGRAM YEAR 9 | \$1,248,443 | \$0 | \$1,230,175 | \$18,269 | \$0 |
| ESTIMATED: PROGRAM YR 10 (2010-2011) | \$3,412,908 | \$0 | \$3,271,970 | \$140,000 | \$938 |
| 2008 OM&M, MONITORING, and MGT REQUEST to Fund LA-03b THRU PROG. YR. 10 | \$2,164,465 | \$0 | \$2,041,795 | \$121,732 | \$938 |

| | PROJECTED EXPENDITURES | | | |
|-------------------------------------|------------------------|--------------------|--------------------|--------------------|
| | Prog. Yr 7 | Prog. Yr 8 | Prog. Yr 9 | Prog. Yr 10 |
| | 2008-09 | 2009-10 | 2010-11 | 2011-12 |
| NRCS S&A ¹ | \$22,537 | \$22,618 | \$22,702 | \$22,788 |
| DNR S&A ¹ | \$33,805 | \$33,927 | \$34,053 | \$34,182 |
| DWF Activities | | | | |
| Nutria Herbivory Survey | \$105,000 | \$110,000 | \$115,000 | \$120,000 |
| General O&M Activities ² | \$500,000 | \$600,000 | \$600,000 | \$615,000 |
| Incentive Payments ³ | \$2,000,000 | \$2,000,000 | \$2,000,000 | \$2,000,000 |
| Nutria Survey Report | \$20,000 | \$20,000 | \$20,000 | \$20,000 |
| Contingency ³ | \$600,000 | \$600,000 | \$600,000 | \$600,000 |
| COE Project Management | \$853 | \$881 | \$909 | \$938 |
| TOTAL | \$3,282,195 | \$3,387,426 | \$3,392,664 | \$3,412,908 |

Note: the requested amounts are all within the original Years 1 thru 9 baseline estimate.

¹ S&A from original project budget estimate

² General Activities include program management, tail collections, etc.

³ Contingency would allow incentive payment and collection if harvest exceeds 400,000/year and cover other unforeseen costs

Coastwide Nutria Control Program (LA-03b)

Compare Original (2002) Estimate vs 2008 Current Request Thru Program Year 10

Numbers extracted from 2002 economic data sheet -- Fully funded costs page

"Construction" = first cost, not including monitoring or COE

| fed s&a | state s&a | contingency | construction | total |
|---------|-----------|-------------|--------------|-----------|
| 18,900 | 88,350 | 472,500 | 1,890,000 | 2,469,750 |

| Prog Yea | "Construction" | mon | o&m | coe |
|----------|----------------|---------|-----------|-----|
| 1 | 2,469,750 | 125,129 | | 706 |
| 2 | | 118,813 | 2,378,237 | 729 |
| 3 | | 122,615 | 2,389,061 | 752 |
| 4 | | 126,539 | 2,400,231 | 776 |
| 5 | | 130,588 | 2,411,758 | 801 |
| 6 | | 146,472 | 2,949,550 | 827 |
| 7 | | 139,080 | 2,945,931 | 853 |
| 8 | | 143,530 | 2,958,601 | 881 |
| 9 | | 148,123 | 2,971,677 | 909 |
| 10 | | 152,863 | 2,985,170 | 938 |

| | | | | | |
|-------|-----------|-----------|------------|-------|-------------------|
| | | | | | TOTAL |
| total | 2,469,750 | 1,353,752 | 24,390,217 | 8,173 | 28,221,892 |

After Upcoming 2008 Request, the current budget thru Program Year 10

| Prog Yea | Construction | Post Const Monitoring | O & M | COE Mgt | |
|----------|--------------|-----------------------|-------------|---------|-----------------------|
| 1 | \$1,682,839 | \$113,518 | | \$706 | actual |
| 2 | | \$73,283 | \$1,696,217 | \$729 | actual |
| 3 | | \$56,287 | \$1,523,412 | \$752 | actual |
| 4 | | \$104,701 | \$954,192 | \$776 | actual |
| 5 | | \$75,361 | \$2,290,206 | \$801 | actual |
| 6 | | \$101,732 | \$1,942,629 | \$827 | rough actual |
| 7 | | \$125,000 | \$3,156,342 | \$853 | current yr projection |
| 8 | | \$130,000 | \$3,256,545 | \$881 | 1 |
| 9 | | \$135,000 | \$3,256,755 | \$909 | 2 |
| 10 | | \$140,000 | \$3,271,970 | \$938 | 3 |

| | | | | | |
|-------|-------------|-------------|--------------|---------|---------------------|
| | | | | | TOTAL |
| total | \$1,682,839 | \$1,054,882 | \$21,348,268 | \$8,172 | \$24,094,161 |

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

TECHNICAL COMMITTEE MEETING

October 9, 2008

**REQUEST FOR FY12 COASTWIDE REFERENCE MONITORING SYSTEM
(CRMS)-WETLANDS MONITORING FUNDS, AND FY12 PROJECT SPECIFIC
MONITORING FUNDS FOR PROJECTS ON CASH FLOW PROJECTS**

For Decision:

Following a presentation by USGS on the status/progress of CRMS over the past year, the Technical Committee will vote on the following requests:

- a.** Project specific FY12 monitoring funding for projects on PPLs 9+ in the amount of \$146,243 for the following projects:
 - Four Mile Canal Terracing and Sediment Trapping (TV-18), PPL-9, NMFS
Requested increase in the amount of \$24,511
 - Coastwide Nutria Control Program (LA-03b), PPL-11, NRCS
Requested increase in the amount of \$121,732

- b.** CRMS FY12 monitoring funds in the amount of \$7,600,455.

**Budget Request for CWPPRA Monitoring
CWPPRA Technical Committee Meeting
September 10, 2008**

Out-year funding (2012)

Project-specific (PPL 9-11)

The following PPL 9-11 cash-flow projects will continue to have project-specific monitoring activities and will require addition out-year funding.

\$ 24,511 TV-18 Four Mile Canal Terracing and Sediment Trapping

\$121,732 LA-03b Coastwide Nutria Control Program

\$146,243 TOTAL

Coastwide Reference Monitoring System – Wetlands (CRMS-Wetlands)

CRMS-Wetlands has been funded by previous Task Force authorizations through FY11. The following request is for out-year funding through FY-12.

\$7,600,455 CRMS-Wetlands (replacement of expenditures from FY08)

CRMS-*Wetlands* Status Report Prepared for the
CWPPRA Technical Committee
September 10, 2008

I. Overview of authorization and funding approvals to date

CRMS-*Wetlands* was authorized by the CWPPRA Task Force on August 14, 2003. The following is a summary of budget authorizations and expenditures:

| Funding Authorizations | | |
|--------------------------------|----------------------------------|--------------------------|
| August 14, 2003 | Funding for 2003 - 2006 | \$12,397,506 |
| | Existing PPL 1-8 projects | \$ 6,760,637 |
| | from new funding | \$ 5,636,869 |
| January 28, 2004: | Funding for 2007 | \$ 3,101,357 |
| October 13, 2004: | Funding for 2008 | \$532,000 ^a |
| October 26, 2005: | Funding for 2009 | \$1,036,109 ^a |
| October 18, 2006: | Funding for 2010 | \$3,185,809 ^a |
| October 25, 2007: | Funding for 2011 | \$4,697,824 ^a |
| October 9, 2008 ^b : | Funding for 2012 | \$7,600,455 ^a |
| TOTAL | Funding 2003 through 2012 | \$32,551,060 |

^a(request reduced to only cover expenses to date)

^b(anticipated)

| Expenses from July 1, 2007 through June 30, 2008 | |
|--|--------------------|
| Administration and Supervision | \$461,841 |
| Landrights | \$289,269 |
| Site Construction, O&M, Engineering Services, Equipment | \$2,183,453 |
| Spatial and Temporal Data Collection | \$4,068,878 |
| Database Management | \$311,308 |
| Analysis and Reporting | \$285,706 |
| TOTAL Expenditures July 1, 2007 through June 30, 2008 | \$7,600,455 |

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

TECHNICAL COMMITTEE MEETING

October 9, 2008

RIVER DIVERSIONS AND POTENTIAL INDUCED SHOALING

For Discussion:

The USACE will provide a brief on potential impacts of River Diversions proposed on the Mississippi River and the dynamics of induced shoaling. An update on the West Bay Sediment Diversion Project performance will also be provided.

**CWPPRA
Technical Committee Meeting
October 9, 2008**

**River Diversions and
Shoaling**

**Amena Henville
US Army Corps of Engineers
Hydraulic and Hydrologic Branch**

**US Army Corps
of Engineers**
New Orleans District

Shoaling Basics

- **What is Shoaling?**
 - A sandy elevation at the bottom of a body of water.
- **Causes of shoaling**
 - Naturally occurring
 - River Diversions
 - Channel obstructions
- **Effects of shoaling**
 - Shallowing of channel
 - Can be a hazard to navigation

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Shoaling and Diversions

- Impacts will vary over time as boundary conditions change (upstream flow and sediment, downstream stage) Potential for significant impacts is greatest with following project features
 - Changes to channel width (sediment mining)
 - Changes in channel alignment (sediment mining)
 - **Water diversion points**
 - Lower reaches of river
 - Reaches where the channel slope becomes flatter
 - Channel training structures
- If these features are already present, likelihood for impact of additional features is great
- Impacts of diversions can be compounded if the reach is already unstable



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- Most common effect of diversions is downstream degradation
- Channel will reestablish equilibrium slope
- Deposition along main channel in vicinity of diversion site
- Flow patterns can change affecting shoaling patterns upstream and downstream
- Upstream change in slope may induce increased sediment transport into the diversion area contributing to the downstream degradation



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Hydraulic Modeling

- **Purpose**
 - Identify impacts to shoaling in the Mississippi River
 - Evaluate effect of diversion angle on sediment diversion
- **Four model studies performed prior to construction**
 - HEC-6 (1988)
 - TABS (1994)
 - CH3D-SED (2000)
 - CH3D-SED (2001)
- **One model study performed after construction**
 - CH3D-SED (2004)



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HEC-6 Modeling (1988)

- **Modeling performed by ERDC**
- **One-dimensional sediment transport model**
- **Purpose – to develop shoaling and dredging estimates with the diversion in place**
- **Model review – ERDC peer review, ASCE Journal papers, PhD dissertations, National Academy of Engineering**
- **Software has been applied to 100s of applications and is sold commercially by several vendors.**



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Source: WES Technical Report HL-92-6, 1992

HEC-6 Modeling (1988)

- Diversion of 10% of Mississippi River
- Three diversion sand concentrations (sediment rich to sediment poor)
- Increase total annual dredging by 8 to 16 percent, or 440,000 to 870,000 cy/yr



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Source: WES Technical Report HL-92-6, 1992

TABS-MD Model (1994)

- Modeling performed by ERDC
- Two-dimensional hydrodynamic and sediment transport model system
- Purpose – to develop shoaling and dredging estimates with the diversion in place
- Model review – ERDC peer review, ASCE Journal papers, PhD dissertations
- Software has been applied to 100s of applications and is sold commercially by several vendors.



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TABS-MD Model (1994)

- Two diversion sizes, 20,000 cfs and 25,000 cfs, both 45 ft deep
- 87-day hydrograph for 1989, peak river flow 1,130,000 cfs
- Upper and lower anchorage areas modeled
- Increased annual dredging in the navigation channel by 265,000-310,000 cubic yards
- Increased annual shoaling in the anchorage area by 2.1-2.3 million cubic yards



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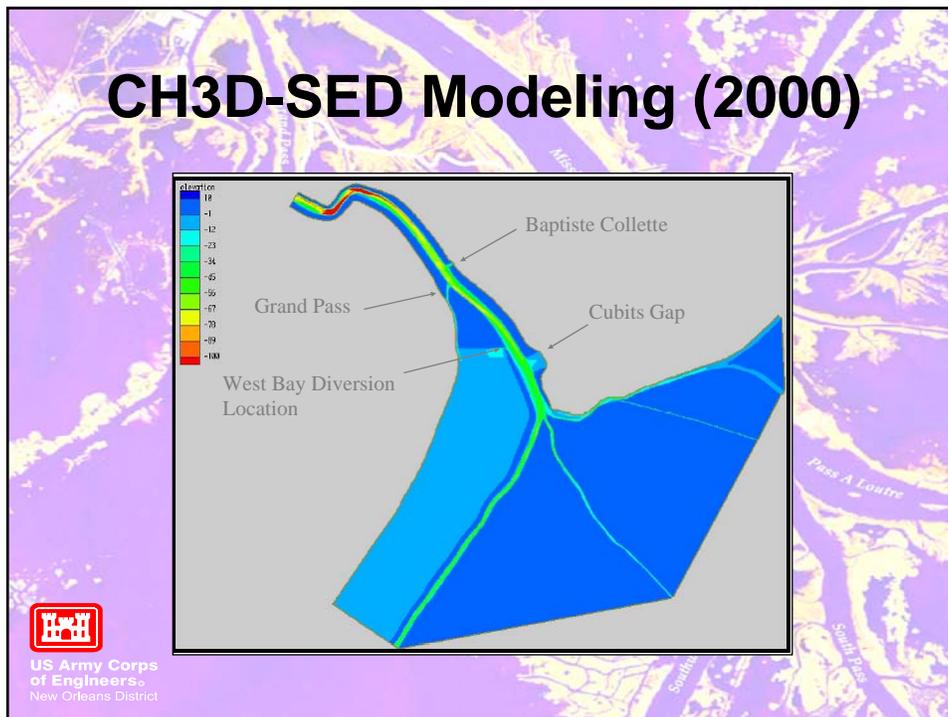
CH3D-SED Modeling (2000)

- Modeling performed by contractor
- Purpose – look at impacts on the anchorage area and navigation channel
- Model review – ERDC peer review, ASCE Journal papers, PhD dissertations
- Software has been applied to such complex systems such as the Chesapeake Bay.



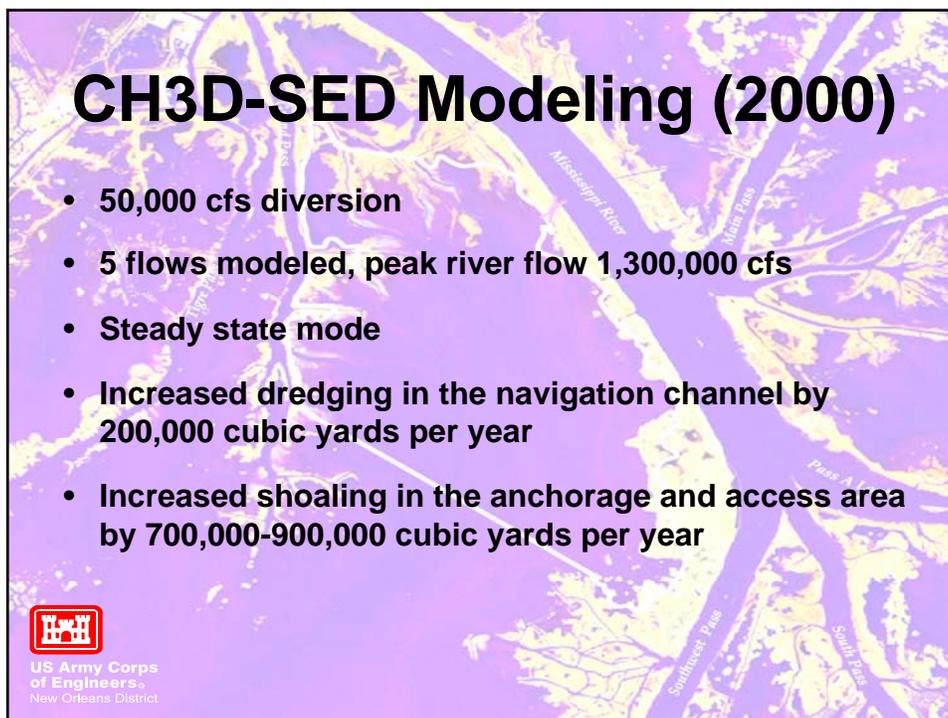
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CH3D-SED Modeling (2000)



CH3D-SED Modeling (2000)

- 50,000 cfs diversion
- 5 flows modeled, peak river flow 1,300,000 cfs
- Steady state mode
- Increased dredging in the navigation channel by 200,000 cubic yards per year
- Increased shoaling in the anchorage and access area by 700,000-900,000 cubic yards per year



CH3D-SED Modeling (2000)

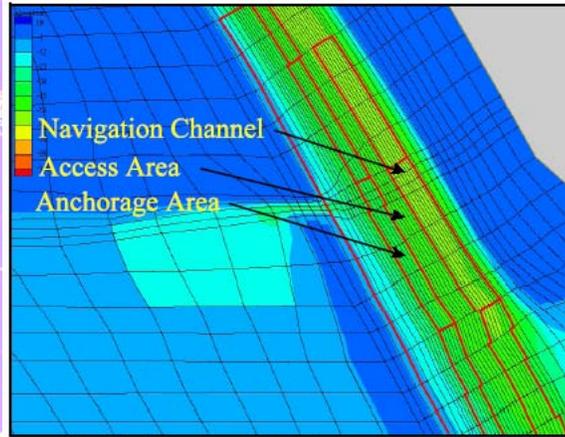


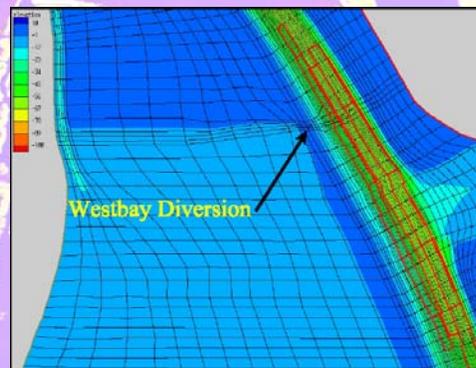
Figure 2.2: Model geometry with West Bay diversion.



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CH3D-SED Modeling (2001)

- Modeling performed by contractor
- Purpose – assess the effects of the angle of diversion on sediment diverted



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Boundary Conditions for CH3D-SED Model

Table 1: Inflowing Sediment Load

| Flow Rate (cfs) | Inflowing Sediment Load (tons/day) |
|-----------------|------------------------------------|
| 410,000 | 58,000 |
| 640,000 | 180,000 |
| 780,000 | 420,000 |
| 900,000 | 750,000 |
| 1,300,000 | 2,380,000 |

Table 2: Grain Sizes

| Grain Size | Particle Diameter (mm) | % of Bed Material |
|------------|------------------------|-------------------|
| Finer | 0.089 | 18 |
| Coarse | 0.177 | 82 |



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CH3D-SED Modeling (2004)

- Modeling performed by ERDC
- Purpose –to address changes in Head of Passes area from construction and maintenance activities



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West Bay

- Discharge through diversion based on average annual flow hydrograph on Mississippi River
- Analysis of the West Bay Diversion showed an increase in the sediment deposition extending several miles downstream of the diversion.
- Analysis of the numerical modeling results shows an increase in deposition from West Bay diversion (River Mile 4.7) downstream to River Mile 1.5.
- From River 1.5 to River mile 0 at Head of Passes, the model results showed a small reduction in sediment deposition. This decrease in sediment deposition can be attributed to sediment deposition between mile 1.5 and mile 5 and the reduction of flow because of the West Bay diversion.
- The lower deposition rates from mile 0 to mile 1.5 are similar to the deposition rates experienced at corresponding lower flow rates under existing conditions.



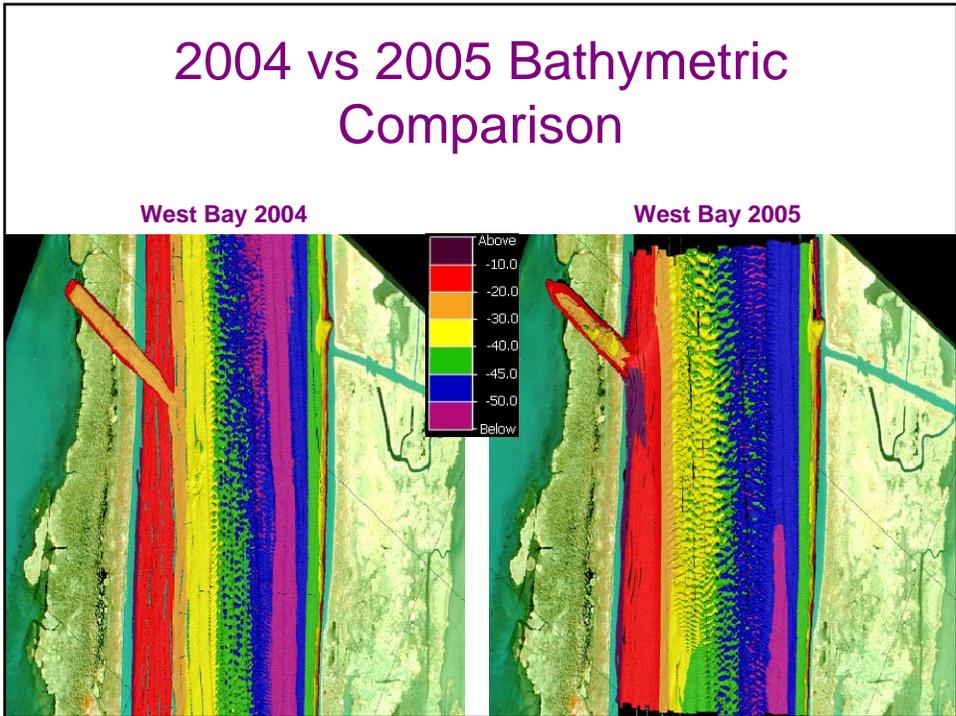
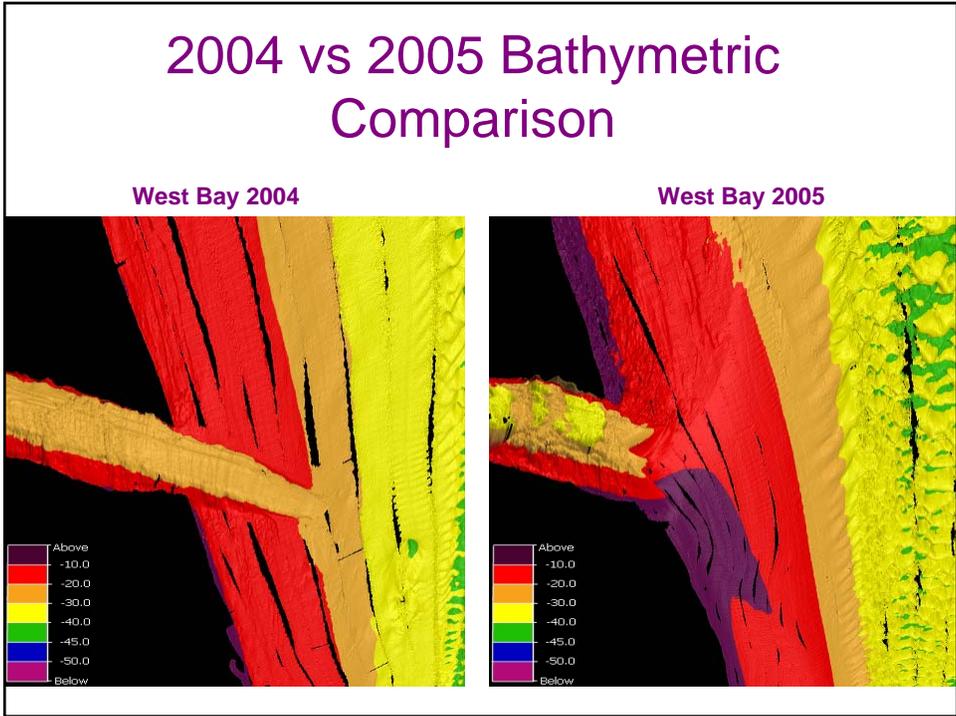
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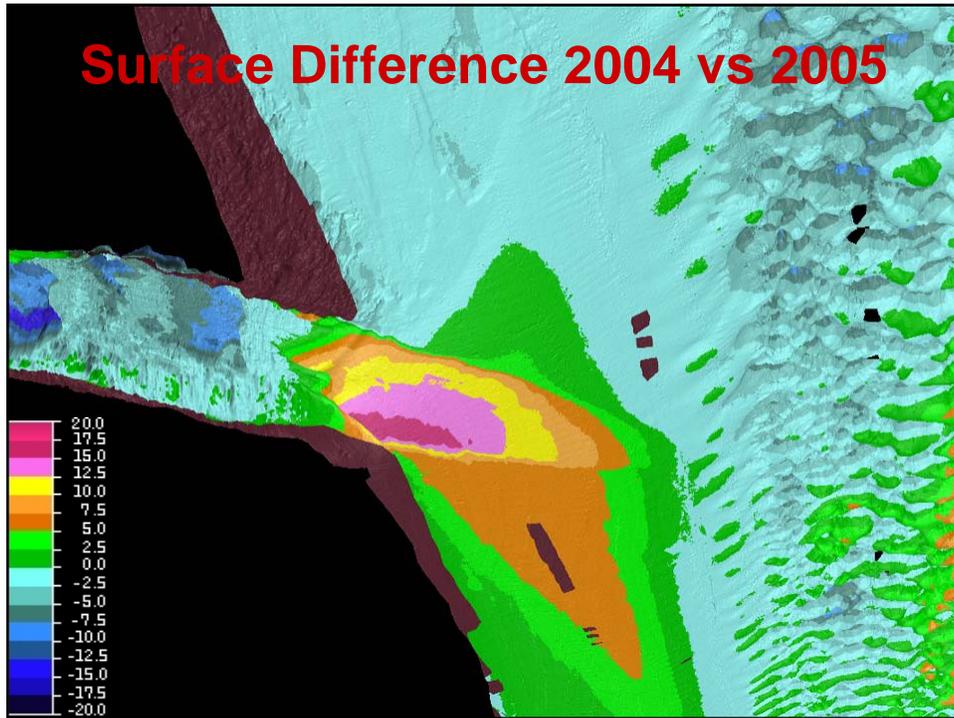
Benney's Bay

- The five flow conditions were run for the existing condition without Benney's Bayou diversion and with project conditions assuming 50,000 cfs diverted at Benney's Bayou for a total of ten runs.
- Analysis of the results shows an increase in shoaling rates occurring just downstream of the Benney's Bay Diversion. This is an area where the navigation channel is deeper than the minimum navigation depth of 45 ft.
- A large amount of the increased shoaling occurs at depths greater than 55 ft. Because of the increased shoaling near the Benney's Bay Diversion, less shoaling occurs in the area between the Cubits Gap and the Head of Passes. This indicates that there may be less dredging in the Mississippi River between the Benny Bay Diversion and the Head of Passes for some time when the project is first placed in operation.



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Data Collection and Analysis

After 2 high water seasons

- In 2005, approximately 150,000 cubic yards of material removed from navigation channel just downstream of the West Bay diversion channel
- Shoaling in anchorage area has varied between 250,000 cubic yards and 700,000 cubic yards
- Next dredging event is expected to be 1,750,000 cubic yards of sediment from the PAA

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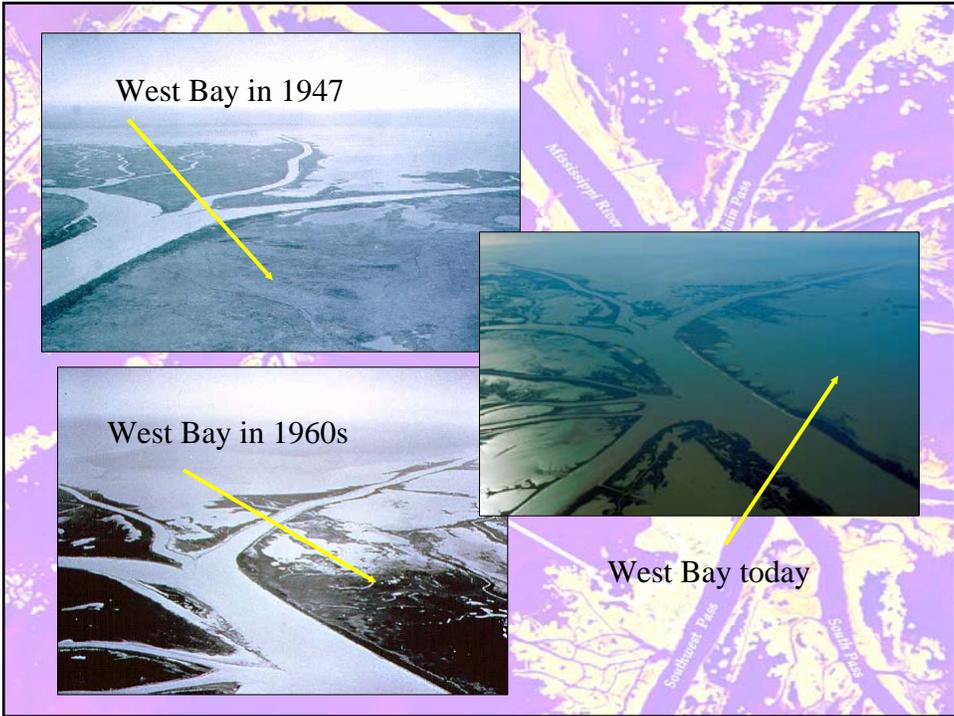
Accurate Model Predictions

- 44 Sets of Discharge measurements at West Bay and in other passes and channels
- Average flow in West Bay Diversion Channel = 17,100 cfs
- Average flow in West Bay Diversion Channel = 4.1% of Mississippi River at Venice Flow, up from 2.6% in 2005
- Average flow in Southwest Pass = 33.0% of Mississippi River at Venice Flow



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COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

TECHNICAL COMMITTEE MEETING

October 9, 2008

**REQUEST FOR OPERATIONS AND MAINTENANCE (O&M) FUNDING
INCREASE AND INCREMENTAL FUNDING FOR PPL 1 – WEST BAY SEDIMENT
DIVERSION PROJECT (MR-03)**

For Decision:

The Corps of Engineers is requesting Technical Committee recommendation for Task Force approval for an O&M budget increase in the amount of \$118,451,908 for the MR-03 project to cover maintenance dredging in the Pilottown Anchorage Area (PAA) through 2023 and to expand the diversion channel to the approved 50,000 cfs capacity. With this, the Corps is requesting incremental funding in the amount of \$10,998,550 for the next three years to conduct maintenance dredging in the PAA.



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

8 October 2008

Planning, Programs and
Project Management Division
Protection and Restoration Office
Restoration Branch

Mr. Tom Holden, Chairman
Technical Committee, Louisiana Coastal Wetlands Planning, Protection and
Restoration Act Program
U.S. Army Corps of Engineers
Post Office Box 60267
New Orleans, Louisiana 70160-0267

Dear Mr. Holden:

The U.S. Army Corps of Engineers (Corps) is requesting Louisiana Coastal Wetlands Conservation and Restoration Task Force (Task Force) approval to increase the Operations and Maintenance (O&M) budget in the amount of \$118,451,908, and for incremental funding in the amount of \$10,998,550 for the West Bay Sediment Diversion Project (MR-03), located in Plaquemines Parish, Louisiana.

The Task Force approved phased construction and O&M of the project in April 2002 at a fully funded cost estimate of \$22,312,761, including: 1) initial construction of a 20,000 cubic feet per second (cfs) channel; 2) diversion channel enlargement to a 50,000 cfs diversion after monitoring to ensure channel stability and manageable shoaling impacts; 3) maintenance dredging, including advance dredging, in the Pilottown Anchorage Area (PAA); 4) Engineering Performance Monitoring; and 5) Biological Monitoring.

The Project completed construction in 2003 and one maintenance dredging event to restore the PAA in 2006. Engineering Performance and Biological Monitoring are being conducted. The diversion channel has not yet been enlarged to the 50,000 cfs capacity.

The Corps, in coordination with the Louisiana Office of Coastal Protection and Restoration, revised the O&M estimate for the remaining life of the project, including the cost to expand the diversion to 50,000 cfs. An economic analysis has been completed to provide a fully funded cost estimate for the remaining project life through 2023. The revised total fully funded cost estimate is \$140,764,667, resulting in a total fully funded budget increase of \$118,451,906. The budget increase is due to dredging cost increases related to fuel, labor and steel cost increases, and the quantity of material needing to be dredged from the PAA.

The estimated incremental cost of O&M for fiscal years 2009 through 2011, including one dredging event at the PAA, is \$16,952,812. However, the remaining unobligated O&M budget is \$5,954,262. Therefore, \$10,998,550 in additional incremental funding is needed for O&M through 2011.

The requested budget increase would result in an increase in the cost per net acres, as indicated in the below table. Even though the requested budget increase and funding approval is significant and not within the range of typical Task Force funding requests, the diversion is still predicted to build approximately 9,831 net acres of fresh to intermediate marsh in West Bay over the 20-year project life, and the anticipated project cost to benefit ratio remains relatively low compared to other coastal restoration projects.

| | Baseline Estimate Oct 1991 | Current Approved Estimate January 2001 | Revised Estimate (October 2008) | Percent Change from Baseline Oct 1991 | Percent Change from Current January 2001 |
|-------------------|-------------------------------|---|------------------------------------|---|--|
| Fully Funded Cost | \$8,517,066 | \$22,312,761 | \$140,764,667 | 1553% | 531% |
| Net Acres | 9831 | 9831 | 9831 | 0% | 0% |
| Cost Per Acre | \$866 | \$2,270 | \$14,318 | 1553% | 531% |

In addition to the estimated net acres that would result from the diversion channel, each O&M dredging event would create marsh in West Bay at a cost that is relatively equivalent to the cost of other marsh creation projects. To date, beneficial use of dredged material from dredging the PAA in 2003 and 2006 has created 361 acres of marsh in the project area. An additional estimated 1,656 acres of marsh would be created from the remaining six scheduled PAA maintenance events between 2009 and 2023. These marsh creation acres are not included in the projected net benefit acres or revised cost effectiveness.

Members of the CWPPRA Technical Committee have recently expressed concern regarding the estimated total project cost increase, and have requested that the Corps provide a cost estimate to close the diversion channel as a potential alternative to continuing long term maintenance in the PAA. A preliminary engineering evaluation resulted in three alternative plans to close the diversion, ranging in cost from \$11.5 million to \$15.6 million, including a 25% contingency.

The West Bay Sediment Diversion Project is the only constructed large scale sediment diversion in the lower Mississippi River. It represents an important coastal restoration effort for the CWPPRA program and the state of Louisiana because it will help to demonstrate the long term feasibility of other proposed and authorized large scale diversions based on the cost associated with adverse and beneficial impacts. We appreciate your consideration of all the contributing factors and prior commitments made in the decision to construct this project when considering this O&M budget increase and incremental funding request.

If you have any questions, please contact me at Melanie.L.Goodman@usace.army.mil, or 504-862-1940.

Sincerely,

Melanie Goodman
CWPPRA Program Manager

Enclosure

CWPPRA Project O&M Budget Increase Justification Package

**Request for CWPPRA Project O&M Funding Increase
Project Costs and Benefits Reevaluation
Fact Sheet
October 3, 2008**

Project Name: West Bay Sediment Diversion (MR-03)

PPL: 1

Federal Sponsor: USACE

Construction Completion Date: November 2003

Projected Project Close-out Date: November 2023

Project Description: Large-scale freshwater and sediment diversion channel from the Mississippi River, at Mile 4.7 above Head of Passes, into adjacent shallow water and marsh in West Bay, Plaquemines Parish, LA.

Construction changes from the approved project: The Task Force approved phased construction of the project in April 2002, including: 1) initial construction of a 20,000 cfs channel; 2) enlargement to a 50,000 cfs diversion after monitoring to ensure channel stability and manageable shoaling impacts; and 3) advance dredging in the Pilottown Anchorage Area (PAA) due to anticipated induced shoaling impacts caused by the diversion. The diversion channel has not yet been enlarged to the authorized 50,000 cfs capacity.

Explain why O&M funding increase is needed: The diversion project causes induced shoaling in the PAA. The Task Force approved the project for construction and 20 years of O&M with the understanding that maintaining pre-project contours in the PAA would be a project O&M requirement to mitigate for the impacts of the induced shoaling. The O&M funding increase is due to two factors: 1) the unit costs for dredging has increased substantially since the project was approved for construction due to labor, fuel and steel cost increases and 2) the quantity of material needing to be dredged from the PAA is substantially greater than what was budgeted for when the project was approved.

Detail O&M work conducted to date: One maintenance event to dredge the PAA was conducted in 2006. Dredged material was used beneficially to create 172 acres of marsh. Data is collected monthly as a part of O&M to monitor river flow, diversion cross section and diversion discharge rate.

Detail and date of next O&M work to be completed: Next major O&M event includes dredging 1,750,000 cubic yards of sediment from the PAA and is scheduled to be advertised as soon as additional needed funding is approved (November/December 2008). Dredged material will be used beneficially in the West Bay Project benefit area to create approximately 237 acres of marsh. On going data collection will continue.

Detail of future O&M work to be completed: Anticipate dredging a total of 12,250,000 cubic yards of sediment from the PAA between 2009 and 2023, or 1,750,000 cubic yards in each of six cycles in FY 09, FY 12, FY 14, FY 17, FY 20 and FY 23. Dredge material would be used beneficially for each event to create an estimated total of 1,656 additional acres of marsh, or 237 acres per cycle.

Originally approved fully funded project cost estimate:

Project estimate when approved on PPL 1 in **October 1991 = \$8,517,066.**

Project estimate approved when construction approved in **Jan 2001 = \$22,312,761.**

Originally approved O&M budget (Attachment 2):

O&M estimate when approved on PPL 1 in **October 1991 = \$4,466,403.**

O&M estimate approved when construction approved in **Jan 2001 = \$15,142,908.**

Total O&M obligations to date (Attachment 2): \$9,188,646.

Remaining available O&M budget funds: \$5,954,262

Current Incremental Funding Request: \$10,998,550

Revised fully funded cost estimate (Attachment 1): \$140,764,667

Total Project Life Budget Increase:

Increase from 1991 = \$132,247,601

Increase from 2001 = \$118,451,906

Requested revised fully funded O&M estimate (Attachments 1 and 2): \$133,594,816

Percent total project cost increase of proposed revised budget over original budget:

Increase from 1991 = 1553%

Increase from 2001 = 531%

Original net benefits based on WVA prepared when project was approved: 9831 acres

Estimate of cumulative project wetland acres to date (from quantitative and/or qualitative analysis): There is no evidence that emergent marsh has developed as a result of the diversion. However, it is believed by various investigators that the receiving area bottom elevation has increased. 361 acres of marsh have been created from beneficial use of project construction and O&M dredge material.

Revised estimate of project benefits in net acres through 20 year project life based on the project with and without continued O&M (include description of method used to determine estimate): Currently, there is no anticipated change in estimated net benefits. The project is considered to be performing close to what was expected. Original project net benefits = 9,831 net acres of marsh. Benefits for marsh created from dredge material were not considered in the original project net benefits.

Original and revised cost effectiveness (cost/net acre) and percent change:

1991 Baseline CE = \$866/acre

2001 Current CE = \$2,270/acre

2008 Revised CE = \$14,318/acre

Attachments:

- 1. Revised O&M Budget Estimate Adjustment Summary Table**
- 2. Revised Fully Funded O&M Increase Cost Estimate**
- 3. West Bay Fully Funded Economic Analysis, Original Baseline**
- 4. Project Performance Synopsis**
- 5. West Bay Sediment Diversion Project Fact Sheet**
- 6. West Bay Excerpts from from August 14, 2003, Task Force Meeting Minutes and Transcripts**
- 7. West Bay Closure Plan Preliminary Evaluation**

CWPPRA Project O&M Budget Estimate Adjustment Summary Table

Project Name: **West Bay Sediment Diversion (MR-03)**
 PPL: **1**
 Project Sponsor: **USACOE**

Prepared By: **Melanie Goodman**
 Date Prepared: **2-Oct-08**
 Date Revised: **8-Oct-08**

| Approved Original Base Line | | | | | Obligations to Date | | | | Proposed Revised Estimate and Schedule | | | |
|-----------------------------|-------|----------------|-------------|-------------------|---------------------|--------------------|-------------|-------------------|--|--------------------|-------------|-------------------|
| Year | FY | Fed S&A & Insp | Corps Admin | State O&M & Insp. | FY | Fed O&M, S&A, Insp | Corps Admin | State O&M & Insp. | FY | Fed O&M, S&A, Insp | Corps Admin | State O&M & Insp. |
| 0 | 1994 | \$0 | | | 2004 | \$1,252,434 | | \$0 | 2004 | \$1,252,434 | | \$0 |
| -1 | 1995 | | | | 2005 | \$175,590 | | \$26,789 | 2005 | \$175,590 | | \$26,789 |
| -2 | 1996 | | | | 2006 | \$7,475,963 | | \$5,571 | 2006 | \$7,475,963 | | \$5,571 |
| -3 | 1997 | | | | 2007 | \$77,070 | | \$3,334 | 2007 | \$77,070 | | \$3,334 |
| -4 | 1998 | \$259,107 | | | *2008 | \$171,580 | | \$315 | 2008 | \$132,811 | | \$315 |
| -5 | 1999 | | | | 2009 | | | | 2009 | \$16,731,286 | \$1,261 | \$54,434 |
| -6 | 2000 | | | | 2010 | | | | 2010 | \$77,716 | \$1,288 | \$3,050 |
| -7 | 2001 | | | | 2011 | | | | 2011 | \$79,348 | \$1,315 | \$3,114 |
| -8 | 2002 | | | | 2012 | | | | 2012 | \$25,296,288 | \$1,342 | \$57,936 |
| -9 | 2003 | \$3,770,171 | | | 2013 | | | | 2013 | \$82,554 | \$1,368 | \$3,240 |
| -10 | 2004 | | | | 2014 | | | | 2014 | \$18,527,058 | \$1,396 | \$60,277 |
| -11 | 2005 | | | | 2015 | | | | 2015 | \$85,888 | \$1,424 | \$3,370 |
| -12 | 2006 | | | | 2016 | | | | 2016 | \$87,607 | \$1,452 | \$3,438 |
| -13 | 2007 | | | | 2017 | | | | 2017 | \$19,661,062 | \$1,481 | \$63,966 |
| -14 | 2008 | \$437,125 | | | 2018 | | | | 2018 | \$91,146 | \$1,511 | \$3,577 |
| -15 | 2009 | | | | 2019 | | | | 2019 | \$92,969 | \$1,541 | \$3,648 |
| -16 | 2010 | | | | 2020 | | | | 2020 | \$20,864,477 | \$1,572 | \$67,881 |
| -17 | 2011 | | | | 2021 | | | | 2021 | \$96,725 | \$1,603 | \$3,796 |
| -18 | 2012 | | | | 2022 | | | | 2022 | \$98,660 | \$1,635 | \$3,872 |
| -19 | 2013 | | | | 2023 | | | | 2023 | \$22,141,551 | \$2,779 | \$72,037 |
| | Total | \$4,466,403 | \$0 | \$0 | | \$9,152,637 | \$0 | \$36,009 | | \$133,128,203 | \$22,968 | \$443,645 |

SUMMARY:

Net Benefits:

| Original Net Acres | Revised Net Acres |
|--------------------|-------------------|
| 9831 | 9831 |

Approved O&M Budget vs Obligations to Date: **Increment Years -0 through -4**

| 2QWAA2 | Approved Original O&M Baseline | O&M Obligations to Date | Difference |
|-----------------|--------------------------------|-------------------------|----------------------|
| Fed S&A & Insp | \$259,107 | \$9,152,637 | (\$8,893,530) |
| Corps Admin | \$0 | \$0 | \$0 |
| State O&M & INS | \$0 | \$36,009 | (\$36,009) |
| Totals | \$259,107 | \$9,188,646 | (\$8,929,539) |

Current Request:

| Current Increment Funding Request Year | Current Funding Request Amount |
|--|--------------------------------|
| Years -5, -6, -7 | \$10,998,550 |

Approved Current O&M Funds less O&M Obligations to Date:

| Total Approved Current O&M 10 Jan 2001 | O&M Obligations to Date | Remaining Available O&M Budget |
|--|-------------------------|--------------------------------|
| \$15,142,908 | \$9,188,646 | \$5,954,262 |

Current Approved vs Proposed Revised Fully Funded Estimates:

| Approved Fully Funded Current Estimate 10 Jan 2002 | Additional O&M funding required for remaining project life | Requested Revised Fully Funded Estimate ** |
|--|--|--|
| \$22,312,761 | \$118,451,908 | \$140,764,667 |

Total Approved Current Budget less Total Proposed Revised Budget

| Funding Category | Current Total 10 Jan 2001 | Proposed Revised Total | Difference |
|------------------|---------------------------|------------------------|------------------------|
| First Costs | \$5,972,907 | \$5,972,907 | \$0 |
| O&M | \$15,142,908 | \$133,594,816 | (\$118,451,908) |
| Monitoring | \$1,196,946 | \$1,196,946 | \$0 |
| **Total | \$22,312,761 | \$140,764,667 | (\$118,451,908) |

Change in Total Cost and Cost Effectiveness:

| | Current Fully Funded Cost Estimate % Change | Original Cost Effectiveness | Revised Cost Effectiveness October 2008 |
|------|---|-----------------------------|---|
| 1991 | 1553% | \$866 | \$14,318 |
| 2001 | 531% | \$2,270 | \$14,318 |

*Note: Obligations to Date, 2008 includes \$38,769 in funds that will be deobligated

**Note: Proposed revised Total, \$2.00 subtracted to adjust for rounding error

Coastal Wetlands Conservation and Restoration Plan
West Bay Sediment Diversion (MR-03)
PPL 1

| | | | |
|-----------------------------|-------------|--------------------------|---------------|
| Project Construction Years: | 0 | Total Project Years | 20 |
| Interest Rate | 4.875% | Amortization Factor | 0.07939 |
| Fully Funded First Costs | \$6,013,731 | Total Fully Funded Costs | \$140,764,667 |

| | <u>Present Worth</u> | <u>Average Annual</u> |
|------------------------------|--------------------------|---------------------------|
| Total Charges | | |
| First Costs | \$0 | \$0 |
| Monitoring | \$1,017,731 | \$80,802 |
| State O & M Costs | \$236,259 | \$18,758 |
| Other Federal Costs | <u>\$71,137,495</u> | <u>\$5,647,913</u> |
| Average Annual Cost | \$5,747,472 | \$5,747,472 |
| Average Annual Habitat Units | 0 | |
| Cost Per Habitat Unit | #DIV/0! | |
| Total Net Acres | 0 | |

**Coastal Wetlands Conservation and Restoration Plan
West Bay Sediment Diversion (MR-03)**

Project Costs \$139,497,797

PPL 1

| Year | Fiscal Year | E&D | Land Rights | Federal S&A | LDNR S&A | Corps Admin | Monitoring | S&I | Contingency | Construction Costs | Total First Cost |
|-------------------|-------------|-----|-------------|-------------|----------|-------------|------------|-----|-------------|--------------------|------------------|
| Phase I | | | | | | | | | | | |
| 1 | 2003 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| 0 | 2004 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| -1 | 2005 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| -2 | 2006 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| -3 | 2007 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Phase II | | | | | | | | | | | |
| 1 | 2003 | - | - | - | - | - | - | - | - | - | - |
| 0 | 2004 | - | - | - | - | - | - | - | - | - | - |
| -1 | 2005 | - | - | - | - | - | - | - | - | - | - |
| -2 | 2006 | - | - | - | - | - | - | - | - | - | - |
| -3 | 2007 | - | - | - | - | - | - | - | - | - | - |
| TOTAL | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Total First Costs | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |

| Year | FY | Monitoring | O&M & State Insp. | Corps Admin | Fed O&M |
|--------------|------|-------------|-------------------|-------------|----------------|
| 0 Discount | 2004 | \$4,683.17 | \$0 | \$0 | \$1,252,433.78 |
| -1 Discount | 2005 | \$7,545.70 | \$26,788.72 | \$0 | \$175,590.44 |
| -2 Discount | 2006 | \$13,645.06 | \$5,571.46 | \$0 | \$7,475,963.46 |
| -3 Discount | 2007 | \$50,102.67 | \$3,334.46 | \$0 | \$77,070.20 |
| -4 Discount | 2008 | \$97,559.63 | \$315.04 | \$0 | \$132,811.23 |
| -5 Discount | 2009 | \$97,560 | \$52,900 | \$1,225 | \$16,259,753 |
| -6 Discount | 2010 | \$97,560 | \$2,900 | \$1,225 | \$73,900 |
| -7 Discount | 2011 | \$97,560 | \$2,900 | \$1,225 | \$73,900 |
| -8 Discount | 2012 | \$97,560 | \$52,900 | \$1,225 | \$23,097,481 |
| -9 Discount | 2013 | \$97,560 | \$2,900 | \$1,225 | \$73,900 |
| -10 Discount | 2014 | \$97,560 | \$52,900 | \$1,225 | \$16,259,753 |
| -11 Discount | 2015 | \$97,560 | \$2,900 | \$1,225 | \$73,900 |
| -12 Discount | 2016 | \$97,560 | \$2,900 | \$1,225 | \$73,900 |
| -13 Discount | 2017 | \$97,560 | \$52,900 | \$1,225 | \$16,259,753 |
| -14 Discount | 2018 | \$97,560 | \$2,900 | \$1,225 | \$73,900 |
| -15 Discount | 2019 | \$97,560 | \$2,900 | \$1,225 | \$73,900 |
| -16 Discount | 2020 | \$97,560 | \$52,900 | \$1,225 | \$16,259,753 |
| -17 Discount | 2021 | \$97,560 | \$2,900 | \$1,225 | \$73,900 |
| -18 Discount | 2022 | \$97,560 | \$2,900 | \$1,225 | \$73,900 |
| -19 Discount | 2023 | \$97,560 | \$52,900 | \$2,041 | \$16,259,753 |
| Total | | \$1,636,931 | \$379,510 | \$19,191 | \$114,175,215 |

Coastal Wetlands Conservation and Restoration Plan

West Bay Sediment Diversion (MR-03)

PPL 1

| Present Valued Costs | | Total Discounted Costs | | | | \$72,391,485 | | | | Amortized Costs | | \$5,747,472 |
|----------------------|-------------|------------------------|-------------|-------------|----------|--------------|------------|-----|-------------|--------------------|------------------|-------------|
| Year | Fiscal Year | E&D | Land Rights | Federal S&A | LDNR S&A | Corps Admin | Monitoring | S&I | Contingency | Construction Costs | Total First Cost | |
| Phase I | | | | | | | | | | | | |
| 1 | 1.049 | 2003 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | |
| 0 | 1.000 | 2004 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | |
| -1 | 0.954 | 2005 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | |
| -2 | 0.909 | 2006 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | |
| -3 | 0.867 | 2007 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | |
| Total | | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | |
| Phase II | | | | | | | | | | | | |
| 1 | 1.049 | 2003 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | |
| 0 | 1.000 | 2004 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | |
| -1 | 0.954 | 2005 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | |
| -2 | 0.909 | 2006 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | |
| -3 | 0.867 | 2007 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | |
| Total | | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | |
| Total First Cost | | | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | |

| Year | FY | Monitoring | O&M & State Insp. | Corps Admin | Fed O&M |
|-------|-------|------------|-------------------|-------------|----------------|
| 0 | 1.000 | 2004 | \$4,683.17 | \$0 | \$1,252,433.78 |
| -1 | 0.954 | 2005 | \$7,545.70 | \$26,788.72 | \$175,590.44 |
| -2 | 0.909 | 2006 | \$13,645.06 | \$5,571.46 | \$7,475,963.46 |
| -3 | 0.867 | 2007 | \$50,102.67 | \$3,334.46 | \$77,070.20 |
| -4 | 0.827 | 2008 | \$97,559.63 | \$315.04 | \$132,811.23 |
| -5 | 0.788 | 2009 | \$76,897 | \$41,696 | \$966 |
| -6 | 0.752 | 2010 | \$73,323 | \$2,180 | \$921 |
| -7 | 0.717 | 2011 | \$69,914 | \$2,078 | \$878 |
| -8 | 0.683 | 2012 | \$66,664 | \$36,148 | \$837 |
| -9 | 0.652 | 2013 | \$63,566 | \$1,890 | \$798 |
| -10 | 0.621 | 2014 | \$60,611 | \$32,865 | \$761 |
| -11 | 0.592 | 2015 | \$57,793 | \$1,718 | \$726 |
| -12 | 0.565 | 2016 | \$55,107 | \$1,638 | \$692 |
| -13 | 0.539 | 2017 | \$52,545 | \$28,492 | \$660 |
| -14 | 0.514 | 2018 | \$50,103 | \$1,489 | \$629 |
| -15 | 0.490 | 2019 | \$47,774 | \$1,420 | \$600 |
| -16 | 0.467 | 2020 | \$45,553 | \$24,700 | \$572 |
| -17 | 0.445 | 2021 | \$43,436 | \$1,291 | \$545 |
| -18 | 0.425 | 2022 | \$41,417 | \$1,231 | \$520 |
| -19 | 0.405 | 2023 | \$39,491 | \$21,414 | \$826 |
| Total | | | \$1,017,731 | \$236,259 | \$10,930 |

**Coastal Wetlands Conservation and Restoration Plan
West Bay Sediment Diversion (MR-03)**

PPL 1

| Fully Funded Costs | | | Total Fully Funded Costs | | | | | | Amortized Costs | | | Total First Cost |
|---------------------------|-------------|---------|--------------------------|------------------|-------------------|--------------|----------------|-------------|------------------|--|------------------|------------------|
| Year | Fiscal Year | E&D | Land Rights | Federal S&A | LDNR S&A | Corps Admin | Monitoring | S&I | Contingency | Construction Costs | Total First Cost | |
| Phase I | | | | | | | | | | | | |
| 1 | 0.769 | 2003 | \$705,032.01 | \$265,032.25 | \$313,010.59 | \$143,447.61 | \$10,264.79 | \$24,891.51 | \$0.00 | \$0.00 | \$0.00 | \$1,461,678.76 |
| 0 | 0.787 | 2004 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| -1 | 0.848 | 2005 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| -2 | 0.904 | 2006 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| -3 | 0.953 | 2007 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| TOTAL | | | \$705,032.01 | \$265,032.25 | \$313,010.59 | \$143,447.61 | \$10,264.79 | \$24,891.51 | \$0.00 | \$0.00 | \$0.00 | \$1,461,678.76 |
| Phase II | | | | | | | | | | | | |
| 1 | 0.769 | 2003 | \$0 | \$0 | \$0 | \$0 | 15,932.82 | 36,910.71 | \$0 | 1,260,000.00 | 1,312,843.53 | |
| 0 | 0.787 | 2004 | \$0 | \$0 | \$0 | \$0 | 0.00 | 135,281.88 | \$0 | 3,103,927.16 | 3,239,209.04 | |
| -1 | 0.848 | 2005 | \$0 | \$0 | \$0 | \$0 | 0.00 | 0.00 | \$0 | 0.00 | 0.00 | |
| -2 | 0.904 | 2006 | \$0 | \$0 | \$0 | \$0 | 0.00 | 0.00 | \$0 | 0.00 | 0.00 | |
| -3 | 0.953 | 2007 | \$0 | \$0 | \$0 | \$0 | 0.00 | 0.00 | \$0 | 0.00 | 0.00 | |
| TOTAL | | | \$0 | \$0 | \$0 | \$0 | 15,932.82 | 172,192.59 | \$0 | 4,363,927.16 | 4,552,052.57 | |
| Total Cost | | | 705,032.00 | 265,032.00 | 313,011.00 | 143,448.00 | 10,265.00 | 40,824.00 | 172,193.00 | 0.00 | 4,363,927.00 | 6,013,731.00 |
| Year | FY | Fed Eng | Monitoring | State Monitoring | O&M & State Insp. | Corps Admin | Fed O&M | | \$8,517,066.00 | Total Estimate (BASELINE), 31 Oct 1991 | | |
| 0 | 0.7871 | 2004 | \$0 | \$4,683.17 | \$0 | \$0 | \$1,252,433.78 | | \$22,312,761.00 | Total Estimate (CURRENT), 10 Jan 2001 | | |
| -1 | 0.8484 | 2005 | \$0 | \$7,545.70 | \$26,788.72 | \$0 | \$175,590.44 | | \$140,764,667.00 | Total Estimate (REVISED), 1 Oct 2008 | | |
| -2 | 0.9036 | 2006 | \$0 | \$13,645.06 | \$5,571.46 | \$0 | \$7,475,963.46 | | \$132,247,601.00 | Increase from Baseline | | |
| -3 | 0.9533 | 2007 | \$0 | \$50,102.67 | \$3,334.46 | \$0 | \$77,070.20 | | \$118,451,906.00 | Increase from Current | | |
| -4 | 1.0000 | 2008 | \$0 | \$97,559.63 | \$315.04 | \$0 | \$132,811.23 | | | | 1553% | |
| -5 | 1.0290 | 2009 | \$73,059 | \$65,505.00 | \$54,434 | \$1,261 | \$16,658,227 | = | \$16,786,980.46 | | | |
| -6 | 1.0516 | 2010 | \$74,666 | \$65,505.00 | \$3,050 | \$1,288 | \$3,050 | = | \$82,054.05 | | | |
| -7 | 1.0737 | 2011 | \$76,234 | \$65,505.00 | \$3,114 | \$1,315 | \$3,114 | = | \$83,777.19 | | | |
| -8 | 1.0952 | 2012 | \$77,759 | \$65,505.00 | \$57,936 | \$1,342 | \$25,218,529 | | \$16,952,811.71 | 3-year funding need | | |
| -9 | 1.1171 | 2013 | \$79,314 | \$65,505.00 | \$3,240 | \$1,368 | \$3,240 | | | | | |
| -10 | 1.1394 | 2014 | \$80,900 | \$65,505.00 | \$60,277 | \$1,396 | \$18,446,158 | | \$5,954,262.15 | Unobligated funds previously approved | | |
| -11 | 1.1622 | 2015 | \$82,518 | \$65,505.00 | \$3,370 | \$1,424 | \$3,370 | | \$10,998,549.56 | O & M 3-year FUNDING REQUEST | | |
| -12 | 1.1855 | 2016 | \$84,169 | \$65,505.00 | \$3,438 | \$1,452 | \$3,438 | | | = \$16,952,812 - \$5,954,262 | | |
| -13 | 1.2092 | 2017 | \$85,852 | \$65,505.00 | \$63,966 | \$1,481 | \$19,575,210 | | | | | |
| -14 | 1.2334 | 2018 | \$87,569 | \$65,505.00 | \$3,577 | \$1,511 | \$3,577 | | | | | |
| -15 | 1.2580 | 2019 | \$89,321 | \$65,505.00 | \$3,648 | \$1,541 | \$3,648 | | | | | |
| -16 | 1.2832 | 2020 | \$91,107 | \$65,505.00 | \$67,881 | \$1,572 | \$20,773,370 | | \$4,466,403.00 | O & M Estimate (BASELINE) | | |
| -17 | 1.3089 | 2021 | \$92,929 | \$65,505.00 | \$3,796 | \$1,603 | \$3,796 | | \$15,142,908.00 | O & M Estimate (CURRENT) | | |
| -18 | 1.3350 | 2022 | \$94,788 | \$65,505.00 | \$3,872 | \$1,635 | \$3,872 | | \$133,594,815.95 | O & M Estimate (PROPOSED REVISION) | | |
| -19 | 1.3617 | 2023 | \$96,684 | \$65,514.00 | \$72,036 | \$2,779 | \$22,044,866 | | \$129,128,412.95 | Increase from Baseline | | |
| Total | | | \$1,266,869.95 | \$1,156,120.00 | \$443,643 | \$22,969 | \$131,861,334 | | \$118,451,907.95 | Increase from Current | | |
| | | | | | | | | | | | 2891% | |
| | | | | | | | | | | | 782% | |

E&D and Construction Data

ESTIMATED CONSTRUCTION COST 3,122,073

TOTAL ESTIMATED PROJECT COSTS

PHASE I

Federal Costs

| | | |
|---------------------------------------|-----------|-----------|
| <i>Engineering and Design</i> | | \$705,032 |
| Engineering | \$482,322 | |
| Environmental | \$195,539 | |
| Economics | \$11,871 | |
| Contracting | \$15,300 | |
| <i>Supervision and Administration</i> | | \$313,011 |
| <i>Corps Administration</i> | | \$10,265 |

State Costs

| | | |
|---------------------------------------|-----|-----------|
| <i>Supervision and Administration</i> | | \$143,448 |
| <i>Easements and Land Rights</i> | | \$265,032 |
| <i>Monitoring</i> | | \$0 |
| Monitoring Plan Development | \$0 | |
| Monitoring Protocol Cost * | \$0 | |

Total Phase I Cost Estimate **\$1,436,787**

* Monitoring Protocol requires a minimum of one year pre-construction monitoring at a specified cost based on project type and area.

PHASE II

Federal Costs

| | | |
|------------------------------------|--|-------------|
| <i>Estimated Construction Cost</i> | | \$3,122,073 |
| <i>Relocations</i> | | \$1,241,685 |
| <i>Supervision and Inspection</i> | | \$156,364 |

State Costs

| | | |
|---------------------------------------|--|----------|
| <i>Supervision and Administration</i> | | \$15,999 |
|---------------------------------------|--|----------|

Total Phase II Cost Estimate **\$4,536,120**

TOTAL ESTIMATED PROJECT FIRST COST **5,972,907**

O&M Data

Annual Costs

| | Federal | State | Total |
|----------------------------|----------------|--------------|--------------|
| Annual Inspections | \$2,900 | \$2,900 | \$5,800 |
| Annual Cost for Operations | \$0 | \$0 | \$0 |
| Preventive Maintenance | \$0 | \$0 | \$0 |
| 0 | | | \$0 |

Specific Intermittent Costs:

| Construction Items | Year 5 (2009) | Year 8 (2012) | Year 10 (2014) | Year 13 (2017) | Year 16 (2020) | Year 19 (2023) |
|---|----------------------|----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Mobilization/Demobilization--Pilotown | \$2,370,000 | \$2,370,000 | \$2,370,000 | \$2,370,000 | \$2,370,000 | \$2,370,000 |
| Dredging - Pilotown Anchorage Area Above WB Diversion | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| First 300,000 CY | \$1,830,000 | \$1,830,000 | \$1,830,000 | \$1,830,000 | \$1,830,000 | \$1,830,000 |
| All over 300,000 CY | \$904,500 | \$904,500 | \$904,500 | \$904,500 | \$904,500 | \$904,500 |
| Dredging - Pilotown Anchorage Area Below WB Diversion | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| First 900,000 CY | \$5,166,000 | \$5,166,000 | \$5,166,000 | \$5,166,000 | \$5,166,000 | \$5,166,000 |
| All over 900,000 CY | \$2,288,000 | \$2,288,000 | \$2,288,000 | \$2,288,000 | \$2,288,000 | \$2,288,000 |
| Diversion Enlargement to 50,000 cfs | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Mobilization/Demobilization | \$0 | \$1,572,000 | \$0 | \$0 | \$0 | \$0 |
| Dredging: | \$0 | \$3,600,000 | \$0 | \$0 | \$0 | \$0 |
| Clearing and Grubbing | \$0 | \$28,000 | \$0 | \$0 | \$0 | \$0 |
| Subtotal | \$12,558,500 | \$17,758,500 | \$12,558,500 | \$12,558,500 | \$12,558,500 | \$12,558,500 |
| Subtotal w/ 25% contin. | \$15,698,125 | \$22,198,125 | \$15,698,125 | \$15,698,125 | \$15,698,125 | \$15,698,125 |

Engineer, Design & Administrative Costs

| | | | | | | |
|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| Engineering and Design Cost | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Administrative Cost | \$50,000 | \$50,000 | \$50,000 | \$50,000 | \$50,000 | \$50,000 |
| Monitoring | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Subtotal | \$50,000 | \$50,000 | \$50,000 | \$50,000 | \$50,000 | \$50,000 |

Federal S&A

| | | | | | | |
|---------------------------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| S&A Engineering and Design Cost | \$150,000 | \$250,000 | \$150,000 | \$150,000 | \$150,000 | \$150,000 |
| Administrative Cost | \$150,000 | \$200,000 | \$150,000 | \$150,000 | \$150,000 | \$150,000 |
| Eng Survey | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Pilotown Anchorage | \$13,728 | \$13,728 | \$13,728 | \$13,728 | \$13,728 | \$13,728 |
| Diversion Enlargement | \$0 | \$13,728 | \$0 | \$0 | \$0 | \$0 |
| Inspection | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Pilotown Anchorage | \$174,000 | \$174,000 | \$174,000 | \$174,000 | \$174,000 | \$174,000 |
| Diversion Enlargement | \$0 | \$174,000 | \$0 | \$0 | \$0 | \$0 |
| | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Engineering Monitoring | \$0 | \$0 | \$0 | \$0 | \$0 | \$0 |
| Data Collection, Mgmt, Gages | \$71,000 | \$71,000 | \$71,000 | \$71,000 | \$71,000 | \$71,000 |
| Subtotal | \$558,728 | \$896,456 | \$558,728 | \$558,728 | \$558,728 | \$558,728 |
| Total | \$16,306,853 | \$23,144,581 | \$16,306,853 | \$16,306,853 | \$16,306,853 | \$16,306,853 |

Annual Project Costs:

| | | | | | |
|----------------------|----------|------------------|-------------|--------------|-------------------|
| Corps Administration | \$1,225 | annually, | plus | \$816 | in year 20 |
| Monitoring | \$65,505 | | | | |

Construction Schedule:

| | | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 |
|---------------------|-----------|------|------|------|------|------|------|------|------|------|------|
| Plan & Design Start | August-08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Plan & Design End | August-08 | | | | | | | | | | |
| Const. Start | August-08 | | | | | | | | | | |
| Const. End | August-08 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

CWPPRA WEST BAY 2000 3-D model vrs 2001 budget approval and FY 09 Budget Increase request
 Exclude rm 4 to 5.8

| Anchorage Area | | | | Access Area | | | |
|----------------|----------------|---------------|---------------|-------------|----------------|----------------|----------------|
| | 250 ft wide | less 4 to 5.8 | RM 4 - 5.8 | | Access | less 4 to 5.8 | RM 4 - 5.8 |
| 1.5 to 2 | 6,300 | 6,300 | | 1.5 to 2 | 25,400 | 25,400 | |
| 2 to 3 | 20,550 | 20,550 | | 2 to 3 | 86,600 | 86,600 | |
| 3 to 4 | 33,850 | 33,850 | | 3 to 4 | 96,100 | 96,100 | |
| 4 to 5 | 45,050 | - | 45,050 | 4 to 5 | 105,600 | - | 105,600 |
| 5 to 6 | 31,750 | 6,668 | 25,083 | 5 to 6 | 44,500 | 9,345 | 35,155 |
| 6 to 6.7 | 19,400 | 19,400 | | 6 to 6.7 | 35,000 | 35,000 | |
| | <u>156,900</u> | <u>86,768</u> | <u>70,133</u> | | <u>393,200</u> | <u>252,445</u> | <u>140,755</u> |

- 339,213 1. Average annual induced shoaling in cu. yds for 250 ft wide anchorage area and access area less quantities for river miles 4 to 5.8
 1,017,638 2. Three years of shoaling based on 1 above
 210,888 3. Average annual induced shoaling in cy for 250 ft wide anchorage and access area in RM 4 - 5.8
 632,663 4. Three years of shoaling based on 3 above

| | 2000 3-D model | | | 2001 Budget Request | | | 2008 Budget Request | | |
|-------------------|----------------|----------|-----------|---------------------|----------|-----------|---------------------|----------|-----------|
| | Below RM | Above RM | TOTAL | Below RM | Above RM | TOTAL | Below RM | Above RM | TOTAL |
| | 4.7 | 4.7 | | 4.7 | 4.7 | | | | |
| Anchorage cy/year | 92,235 | 64,665 | 156,900 | 60,700 | 26,068 | 86,768 | | | |
| Access cy/year | 282,020 | 111,180 | 393,200 | 208,100 | 44,345 | 252,445 | | | |
| total cy/year | 374,255 | 175,845 | 550,100 | 268,800 | 70,413 | 339,213 | | | |
| cy/3 years | 1,122,765 | 527,535 | 1,650,300 | 806,400 | 211,238 | 1,017,638 | 1,300,000 | 450,000 | 1,750,000 |

6 Percent volume increase, current FY 2009 estimate compared to 3-D Model
 72 Percent volume increase, current FY 2009 estimate compared to 2001 budget request

Request for CWPPRA Project O&M Funding Increase
Project Performance Synopsis
October 3, 2008

West Bay Sediment Diversion (MR-03)

Project Description

The project consists of a conveyance channel for the large-scale diversion of freshwater and sediments from the Mississippi River into adjacent coastal wetlands and shallow bay waters in Plaquemines Parish, Louisiana. Staged construction is being employed to implement the project in two phases: (1) building an initial diversion channel with the capacity for an average discharge of 20,000 cubic feet per second (cfs); and (2) after a period of intensive monitoring, enlargement of the diversion channel up to 50,000 cfs average discharge capacity.

Over the twenty year life of the project 9,831 acres of coastal wetlands are expected to accrete from the diversion and deposition of river sediments. The project's design discharge volumes are based upon a 50% duration stage of the Mississippi River and are intended to achieve the project's wetland restoration objectives.

Construction History

In April 2002 the Task Force approved construction and operations and maintenance (O&M) of the project at a fully funded price of \$22,306,712. This estimated cost was higher than the initial 1st Priority Project List estimate due to the inclusion of costs for maintaining the existing depths in the river's Pilottown Anchorage Area. In accordance with an agreement reached with navigation user groups – key project partners with the U.S. Army Corps of Engineers and the State of Louisiana – the CWPPRA program agreed to fund the costs of maintenance dredging in the anchorage because of the shoaling impacts of the project. The agreement included a requirement that all maintenance dredged material removed would be used beneficially in the project area. At the time of construction approval, the sponsors informed the Task Force that additional O&M dollars would be required once a consistent schedule and volume estimates were established for the maintenance dredging work. A cost share agreement between the State of Louisiana and the U.S. Army Corps of Engineers was signed in August 2002.

Chevron-Texaco Corporation relocated a major oil pipeline in May 2003 under a reimbursable construction agreement with the U.S. Army Corps of Engineers. The pipeline crossed a portion of the area near the mouth of the diversion channel in West Bay and it was lowered for safety and environmental protection purposes. Using directional drilling technology, the pipeline was lowered to -150 ft below the mud line allowing the diversion channel to pass safely over the buried line.

A contract was advertised in June 2003 and construction bids were received in August 2003. The initial 20,000 cfs diversion channel was constructed during the fall of 2003. Great Lakes Dredge and Dock Company used the hydraulic cutterhead dredge *California* to dig the diversion channel through the west bank of the Mississippi River at mile 4.7 Above Head of Passes on the

right descending river bank. All of the material from the construction of the initial channel was used beneficially to create 189 acres of marsh in the diversion outfall area in West Bay. Dredging was completed in November 2003 and the marsh creation sites were more than 70% vegetated by March 2004.

Diversions Project Performance

Flow measurements taken in May 2008 recorded a river discharge of 51,270 cfs flowing through the project diversion channel. Over the past five years of operation the diversion project discharge has averaged 19,336 cfs. Initial construction of the project was designed to allow the discharge of 20,000 cfs at the 50% duration stage of the Mississippi River. Discharge measurements are taken roughly monthly using an acoustic Doppler current profiler as part of project surveillance and performance monitoring plan. Weather impacts and equipment calibration have occasionally resulted in missing scheduled sampling periods. In addition, sampling was suspended for five months in the aftermath of Hurricane Katrina. The random nature of the recorded samples limits the statistical validity of the collected data and cost factors have prevented the team from employing continuous recording equipment. Although the computed average discharge is slightly below the design volume, the project coordination team is satisfied that the diversion is moving water into the outfall area as designed.

At this point there is no evidence in the project area of subaerial marsh accretion from the deposition of diverted river sediment. Original design calculations and benefit estimates predicted a period of 3-5 years of project operation would be required before wetland accretion would begin. The project just completed passage of the fifth high water event since construction. Research conducted by a Louisiana State University (LSU) graduate student over a two-year period from March 2004 to April 2006 documented 2.9 million tons of annual sediment deposition in West Bay (Andrus, 2008). Post-Hurricane Katrina surveys found that West Bay was deepened by passage of the storm erasing the equivalent of one year of sediment deposition that had occurred since construction. This work also theorizes that a flow through channel is developing in the bay allowing diverted sediment to pass through the system with only limited deposition. In addition, without increasing sediment deposition the research predicts that it could take up to 70 years to achieve the predicted project benefits. At the time of this report team members from the Department of Natural Resources and New Orleans District have not fully evaluated the research or met to discuss potential project modifications to address the research data implications.

Modifying the project to reduce the velocity of diverted water entering West Bay might increase the deposition and retention of sediment in the project area. During project planning and design a number of features were considered that would help maintain and improve project performance such as increasing the diversion discharge volume, installing sediment retention enhancement devices, building marsh terraces in the outfall area, and dredging bi-furcation channels to maintain hydraulic efficiency in outfall area sub-channels. None of these actions have been pursued but the team would like to evaluate these and other options to improve project performance.

Project Operation and Maintenance

The diversion of river water induces shoaling in the Federal navigation channel of the Mississippi River and in the Pilottown Anchorage Area located along the right descending bank of the river. Channel shoaling occurs as a result of decreasing the rate of river flow below the diversion causing a reduction in the sediment carrying capacity of the river. Maintenance dredging of the Federal navigation channel is accomplished under the U.S. Army Corps of Engineers' ongoing Operations and Maintenance Program for the river, but additional dredging of the anchorage area is a cost incurred by the CWPPRA project. Operation of the project in this manner was approved by the Task Force and is detailed in the cost share agreement executed between the U.S. Army Corps of Engineers and the State of Louisiana. The anchorage area is not a maintained feature of the navigation project but is a Coast Guard designated safe anchorage area that is important to operators of vessels on the river. The dredged material removed from the anchorage area is used to create wetlands in the West Bay diversion outfall area.

Computer modeling was used in the design phase to predict the volume and location of shoaling in the navigation channel and adjacent anchorage area in the vicinity of the West Bay Diversion. Results from a CH3D-SED model completed in 2000 showed an estimated shoaling rate of 700,000 – 925,000 cubic yards per year in the anchorage area attributable to the diversion channel. The approved cost estimate for the project incorporated earlier computer model results to account for the funds needed to perform maintenance dredging in the anchorage area. It should be noted that at the time of construction approval the project sponsors notified the Task Force that additional dollars may be required for maintenance dredging the anchorage area.

In 2006, the USACE performed maintenance dredging in the Pilottown Anchorage Area to remove induced shoal material in accordance with the project operations and maintenance plan (this dredging event had been scheduled for 2005 but was delayed due to Hurricane Katrina). Sediment from the dredging operation was used beneficially for marsh creation in West Bay. The dredging event was performed using a hopper dredge linked to a hydraulic pump out system - a first of its kind use of this technology in Louisiana wetlands restoration efforts. To date approximately 361 acres of marsh have been created through the beneficial use of dredged material from the channel construction (189 ac & 172 ac) and maintaining the anchorage area.

Monitoring for the project is focused on documenting project performance linked to the project goals and a surveillance effort conducted to ensure safe project operation. Traditional project monitoring has included pre-construction surveys and aerial photography to establish baseline conditions. Post-construction vegetation surveys highlighted the rapid colonization and coverage of the beneficial use marsh creation sites. Aerial overflights and field inspections following Hurricane Katrina showed some edge erosion and matting of vegetation at the construction beneficial use marsh creation sites. However, follow-up field visits in 2006 documented robust recovery of the vegetation on the marsh creation site.

Cost and Benefit Considerations

Project costs have increased throughout the planning, construction, and operations stages. To date, \$15,293,795 has been spent to plan, design, construct and operate the project. Beneficial

use of dredged material has resulted in the creation of 361 acres of new wetlands at cost of \$42,016 per acre (cost per acre includes design, monitoring, pipeline relocation etc – we should factor out those costs and see the true cost per acre). This cost per acre is in line with the average for other recently approved or constructed CWPPRA dedicated dredging projects.

In 2003, the project construction contract (including the diversion channel and anchorage area advanced maintenance dredging) covered the dredging of 1.08 million cubic yards of material at a cost of \$3,071,358. This equates to a cost of \$2.84 per cubic yard of material dredged. The initial construction contract included rock removal along the bank and clearing and grubbing of the site. In 2006, maintenance dredging was performed in the anchorage area removing 1,398,000 cubic yards of material at cost of \$7,292,671. This equates to a cost of \$5.22 per cubic yard. This work was performed using a hopper dredged linked up to a pump out system and the work was performed post-Katrina.

The Corps of Engineers has estimated the cost of dredging the next anchorage maintenance cycle in 2009 to remove 1.75 million cubic yards of material at an estimated cost of \$16,786,981 (includes 25% contingency and mobilization and demobilization). This equates to a cost of \$9.59 per cubic yard resulting in a 238% increase in the cost of dredging in five years. Dredging cost increases are associated with significant spikes in the cost of fuel, labor, and steel. A revised total fully funded cost estimate for the project is \$140,764,667 or 531% higher than the current cost estimate approved in 2002. The cost per acre benefited has risen from \$2,270 per acre to \$14,318 per acre. The current costs were developed by the New Orleans District Engineering Division and provided to the CWPPRA Engineering Workgroup.

The cost increase would provide funds for a needed maintenance dredging cycle and three years of other O&M expenses such as channel monitoring and biological monitoring. The dredging expense represents the highest recurring O&M cost with cycles required approximately every 2-3 years over the remaining “life of the project.” The team has engaged the other CWPPRA partner agencies and provided updates to representatives of the navigation industry. If the required O&M dollars are not approved the Corps of Engineers may have to act to close the diversion project in accordance with pre-construction agreements between the State of Louisiana and the navigation interests. Closing the diversion would also require significant costs subject to the approval of the CWPPRA program.

Summary

West Bay is the largest freshwater and sediment diversion project built in Louisiana. Authorized on the 1st Priority Project List, it took twelve years to design and construct the diversion. This implementation period exceeds the time required to build most other CWPPRA restoration projects. However, when compared to other big freshwater diversion projects such as Caernarvon (26 years) and Davis Pond (32 years), the West Bay implementation timeframe highlights the ability of the CWPPRA program to move projects to construction faster than many other Federal programs. The project represents a significant investment of the CWPPRA program in using the Mississippi River as a key tool for coastal restoration.

Planning the West Bay Diversion project exemplified many of the challenges that have to be overcome in constructing large coastal restoration projects in Louisiana. These include land rights, infrastructure obstacles, modeling, safety planning, impacts to other water resource projects, and operations and maintenance challenges. In some sense, West Bay should be viewed as a relatively easy diversion to implement because it did not have to deal with factors such as levees, highways, power lines, communities, oyster leases, or any other obstacles that would be encountered when planning diversions located above Venice. The lessons learned in planning and constructing the project should be applied to other projects in CWPPRA and LCA.

At this point there is no evidence in the project area of marsh accretion from the deposition of diverted river sediment. Limited field study in the project area by researchers from Tulane and LSU indicates that Hurricane Katrina may have removed some of the sediment deposition because the area has shown increased water depths at sites surveyed since the storm. Some researchers and members of the project coordination team have suggested strategically placing material from the next anchorage area maintenance dredging event in a pattern intended to promote sediment deposition and retention.

All of the material dredged during the construction of the project (1.08 million cubic yards) and the first anchorage area maintenance dredging cycle (1.39 million cubic yards) has been used beneficially for marsh creation in West Bay. To date more than 361 acres of wetlands have been created with this material. The first anchorage area maintenance dredging event was performed using a hopper dredge linked to a pump out system - a first of its kind use of this technology in Louisiana for wetlands restoration. As a result, the West Bay project helped to again expand the tools available for coastal restoration through the innovative application of technology.

Operations and maintenance costs for the West Bay project are significantly higher than the amounts originally approved. On a cost per cubic yard basis, projected maintenance dredging costs have risen 238% since the construction of the project. Project cost increases for O&M dredging are directly related to higher prices for fuel, labor, steel pipe, and other factors such as plant ownership.

The West Bay project represents a workable balance between continuing the economic benefits of navigation commerce and the use of the river as a tool for restoring coastal wetlands in Louisiana. Industry representatives have long supported the project in return for a commitment from the Breaux Act Program to maintain pre-project depths in the important Pilottown Anchorage Area. This agreement also carries stipulations that the project be closed if the dredging requirements are not maintained. Leaders of the program face a choice in allocating the funds required to dredge the anchorage or determining that the largest river diversion project in the state should be closed due to higher than anticipated costs.

Gregory Miller
Senior Project Manager
New Orleans District
October 2008

**BREAUX ACT
COASTAL WETLANDS PLANNING, PROTECTION
AND RESTORATION ACT
TASK FORCE MEETING**

August 14, 2003, 9:30 A.M.
District Assembly Room A
New Orleans District
U.S. Army Corps of Engineers
7400 Leake Avenue
New Orleans, Louisiana 70118

EXCERPTS ON WEST BAY DIVERSION

COL. ROWAN:

All right. Motion is approved. Thank you. Next one is a status report, Item Number 14, West Bay Sediment Diversion. Mr. Miller, you may need to get yourself a microphone so that people can hear you.

MR. GREG MILLER:

I like to be able to talk louder. Let me know if you can't hear me. I'm here today to bring some very, very good news from the past year, and that is, on Monday of this week, we closed bids for the construction of the West Bay Project. We had a very, very competitive bid environment. Four bids came in, all within the government estimate range. We anticipate making an award for the construction of the project in the very near future, and expect to be actually out working on the West Bay site at the end of this month or at the very beginning of September.

COL. ROWAN:

All right. I would like, having sat in on a couple of these meetings, thank the project manager for going into the lion's den, which is the navigation and shipping industry and pilots, and answering their concerns, because we are tinkering with what they view as

their river, doing this. And it's just like everyone else said, its livelihood as well as ecology that the Mississippi as a venue of commerce puts 500 Million, half a Billion tons of cargo through the ports of New Orleans and South Louisiana every year. And so, when you're talking about tinkering with that down in that area, they are very sensitive. And Greg did a wonderful job, not only with a highly technical subject, but one that had a lot of emotions wrapped up with it, and through that, was able to get their buy in on doing this project, and remove any of the objections that they had. And he is to be congratulated for that.

SECRETARY CALDWELL:

Colonel, as you know, this is on Priority List One, and I think this is the last project on Priority List One. And I want the public to know the reason, the principal reason, why it's been so long is the legal issues that, for many years, nobody was willing to tackle. But you finally developed a legal department that I want to commend for grasping the nettle, and for making realistic decisions for challenging and novel legal issues presented in the West Bay Project. And so, we are thrilled to death that we are going forward with this extremely valuable project. This is going to be one of the most cost-effective projects we have ever built.

MR. MILLER:

Colonel, I want to point out a couple of other things. We're going to change our cost-effectiveness just slightly. We do have an estimate that is higher than what was approved by the Task Force last year. At this point in time, we are not coming to the Task Force and asking for approval of that estimate. The reason that the cost estimate is up specifically what you referred to. We have met extensively with the navigational

industry and have made some commitments to insure that navigation safety will not be affected by the project. There are some higher costs associated with doing that type of surveillance work on the River. There have been some delays in construction that have had some inflation impacts on our cost estimates. What we'd like to do, is to merge to a system of cash flow and then we do have a current estimate, but we do not need that money right now, for the construction of the project or to operate it for the foreseeable future. If at any time in the future, and we do have a need for additional funds, suggesting that we will come to the Task Force, present that information, and ask for those funds to be approved at that time.

COL. ROWAN:

What's the current contingency within the estimate right now?

MR. MILLER:

Twenty-five percent.

COL. ROWAN:

Any discussion, then? I don't think there's necessarily a motion at this time in front of me. Just any additional discussion of what you'd like to see come back from the project team to the Task Force on this. Okay. Any other discussion on West Bay? All right.

Thank you. Right now, do we have an outreach report? You do not look like Gabrielle.

BREAUX ACT
Coastal Wetlands Planning, Protection and Restoration Act

TASK FORCE MEETING
August 14, 2003

Minutes

EXCERPTS ON WEST BAY

B. Report: Status of the West Bay Sediment Diversion (MR-03).

Mr. Greg Miller gave a report on the West Bay Sediment Diversion project. It will be awarded for construction within a month. The estimate is higher than was requested for approval; however, the Corps is not coming to the Task Force and asking for approval of that estimate. Project commitments were made to protect navigation and there are higher costs related to required surveillance. If at any time in the future, the Corps has a need for additional funds, funding approval will be requested at that time.

Discussion: Colonel Rowan said that navigation interests are concerned with modifying the river. He also stated that Mr. Miller had done a good job getting buy-in from navigation interests. Sec. Caldwell said that this is the last project on Priority List One. He commended the legal department for dealing with the legal issues. This will be the most cost effective project ever built.

CWPPRA West Bay Diversion Sediment Diversion (MR-03)
Closure Plan
Preliminary Evaluation
October 3, 2008

The following alternatives evaluation was prepared for the CWPPRA Technical Committee to provide supporting information to use while considering a significant O&M budget increase for the West Bay Sediment Diversion Project. This evaluation does not constitute final plans and specifications or official government estimate to close the diversion project.

Evaluation of a closure structure for the existing West Bay diversion resulted in 3 alternative designs which could be potentially considered. Two of these alternatives required a hydraulically dredged in earthen closure structure on different alignments. Both consider a 200' crown with assumed 1V on 25H side slopes. Either earthen alternative would need to be constructed during low water to minimize losses during construction due to velocities through the diversion channel.

Alternative 1 is offset behind the existing scour hole, tying into existing marsh both upstream and downstream of the diversion (approximately 2,500' in length). Neat line quantity to construct is approximately 1,100,000 cubic yards. This quantity will be increased 50% to account for losses during pumping, yielding approximately 1,700,000 yards of required material. The existing scour hole, which is located riverside of the proposed alignment, will fill in naturally upon completion of the proposed closure structure.

The alignment for alternative 2 is directly across the diversion channel, and will result in immediately filling the existing scour hole and reestablishing the configuration of the existing bankline. This alignment will result in a slightly higher borrow requirement, and is potentially subject to more direct current attack/erosion from flow in the main channel. While the closure location is significantly deeper than the first alignment, the linear footage of required closure from bank to bank is much shorter (approximately 600'). Approximate neat line fill quantity to construct is 1,300,000 cubic yards. Increasing by 50% for losses yields approximately 2,000,000 yards of required material.

The stone closure alternative mimics the closure previously constructed at Burrwood Bayou off of Southwest pass. The closure alignment will be similar to that of the first earthen alternative, resulting in approximately 2,500 linear feet of stone dike. The dike will be constructed with a 10' crown width and approximate 1V on 2H side slopes. 25% allowances will be included for potential dike settlement. Geotechnical analysis will be required to design stability berms to assure structure stability. As the water depths are similar to the Burrwood closure site, the typical sections used in that design will be quantified for this cost quantity/cost estimate. Based on that criterion, approximately 130,000 ton of 2200# armor stone will be required along with approximately 25,000 tons of crushed bedding stone. 8,000 tons of bank paving will be placed on each end of the closure to reduce the potential for flanking of the structure.

SECTION 00010 - BIDDING SCHEDULE

VICINITY OF VENICE
 CWPPRA – WEST BAY SEDIMENT DIVERSION
 20,000 CFS SEDIMENT DIVERSION
 EARTHEN CLOSURE - Alt 1
 PLAQUEMINES PARISH, LA.

| Item | Description | Estimated Quantity | Unit | Unit Price | Estimated Amount |
|-------|---------------------------------|--------------------|------|------------|------------------|
| 0001 | Mobilization and Demobilization | 1 | LS | | 2,000,000 |
| 0002 | DREDGING | 1,700,000 | CY | 5.25 | 8,925,000 |
| | | | | | |
| | | | | | |
| | | | | | |
| TOTAL | | | | | \$11,925,000 |

Award will be made as a whole to one bidder.

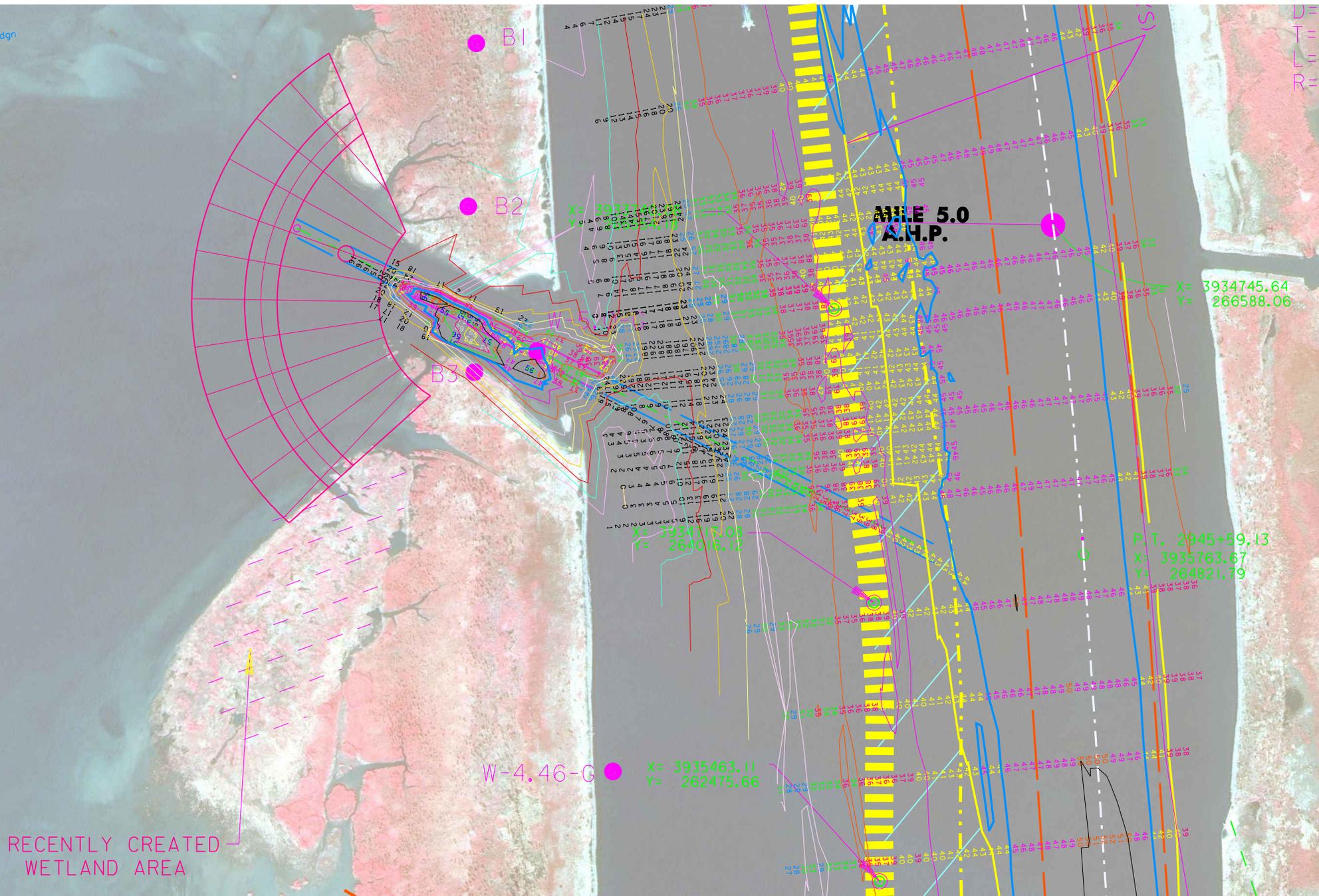
NOTE 1: Bidders shall furnish unit prices for each item listed in the Schedule requiring a unit price. If the bidder fails to insert a unit price in the appropriate blank for required item(s), but does furnish an extended total, or an estimated amount for such item(s), the Government shall deem the unit price to be the quotient obtained by dividing the extended amount for that line item by the quantity. IF A BIDDER OMITTS BOTH THE UNIT PRICE AND THE EXTENDED TOTAL OR ESTIMATED AMOUNT FOR ANY ITEM, ITS BID SHALL BE DECLARED NON-RESPONSIVE AND THEREFORE INELIGIBLE FOR AWARD.

NOTE 2: Any bid may be rejected if the Contracting Officer determines in writing that it is unreasonable as to price. Unreasonableness of price includes not only total price of bid, but the price for individual line items as well. Any bid may be rejected if the prices for any line items or sub line items are materially unbalanced (See FAR 14.404-2).

NOTE 3: THE NOTICE TO PROCEED (NTP): The successful bidder is advised that performance and payment bonds shall be submitted in accordance with the time frame in block 12B of SF 1442 after Notice of Award. The NTP will be issued immediately after verification of acceptable performance and payment bonds. Within seven (7) days after issuance of the NTP, the Contractor shall initiate a meeting to discuss the submittal process with the Area or Resident Engineer or his authorized representative. Physical work cannot start until the Accident Prevention Program, Contractor Quality Control Plan, and other submittals which may be required, have been submitted and approved and all preliminary meetings called for under the contract, have been conducted.

Alternative 2

bc080919.dgn



SECTION 00010 - BIDDING SCHEDULE

VICINITY OF VENICE
 CWPPRA – WEST BAY SEDIMENT DIVERSION
 20,000 CFS SEDIMENT DIVERSION
 EARTHEN CLOSURE – Alt 2
 PLAQUEMINES PARISH, LA.

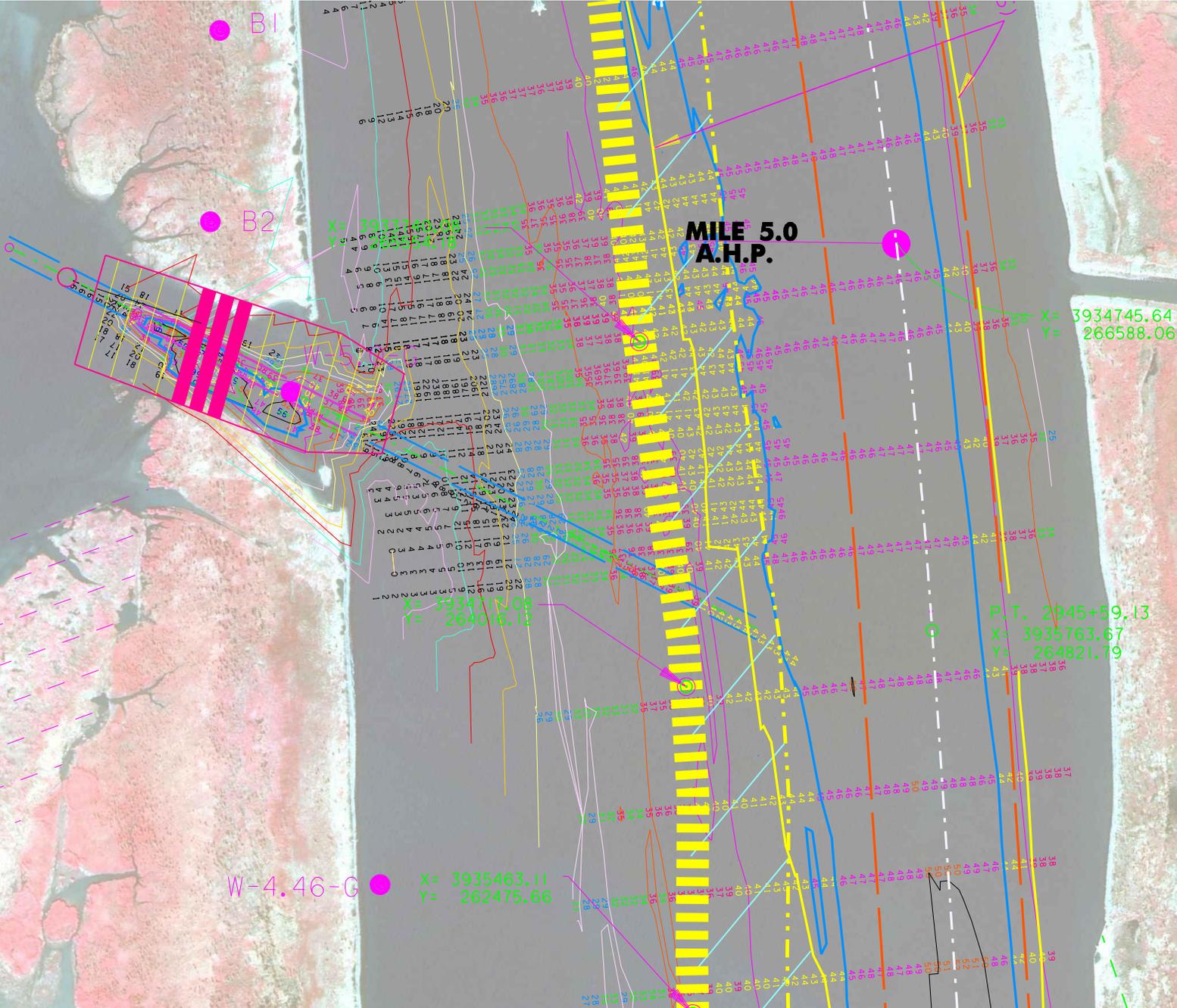
| Item | Description | Estimated Quantity | Unit | Unit Price | Estimated Amount |
|-------|---------------------------------|--------------------|------|------------|------------------|
| 0001 | Mobilization and Demobilization | 1 | LS | | 2,000,000 |
| 0002 | DREDGING | 2,000,000 | CY | 5.25 | 10,500,000 |
| | | | | | |
| | | | | | |
| | | | | | |
| TOTAL | | | | | \$12,500,000 |

Award will be made as a whole to one bidder.

NOTE 1: Bidders shall furnish unit prices for each item listed in the Schedule requiring a unit price. If the bidder fails to insert a unit price in the appropriate blank for required item(s), but does furnish an extended total, or an estimated amount for such item(s), the Government shall deem the unit price to be the quotient obtained by dividing the extended amount for that line item by the quantity. IF A BIDDER OMITTS BOTH THE UNIT PRICE AND THE EXTENDED TOTAL OR ESTIMATED AMOUNT FOR ANY ITEM, ITS BID SHALL BE DECLARED NON-RESPONSIVE AND THEREFORE INELIGIBLE FOR AWARD.

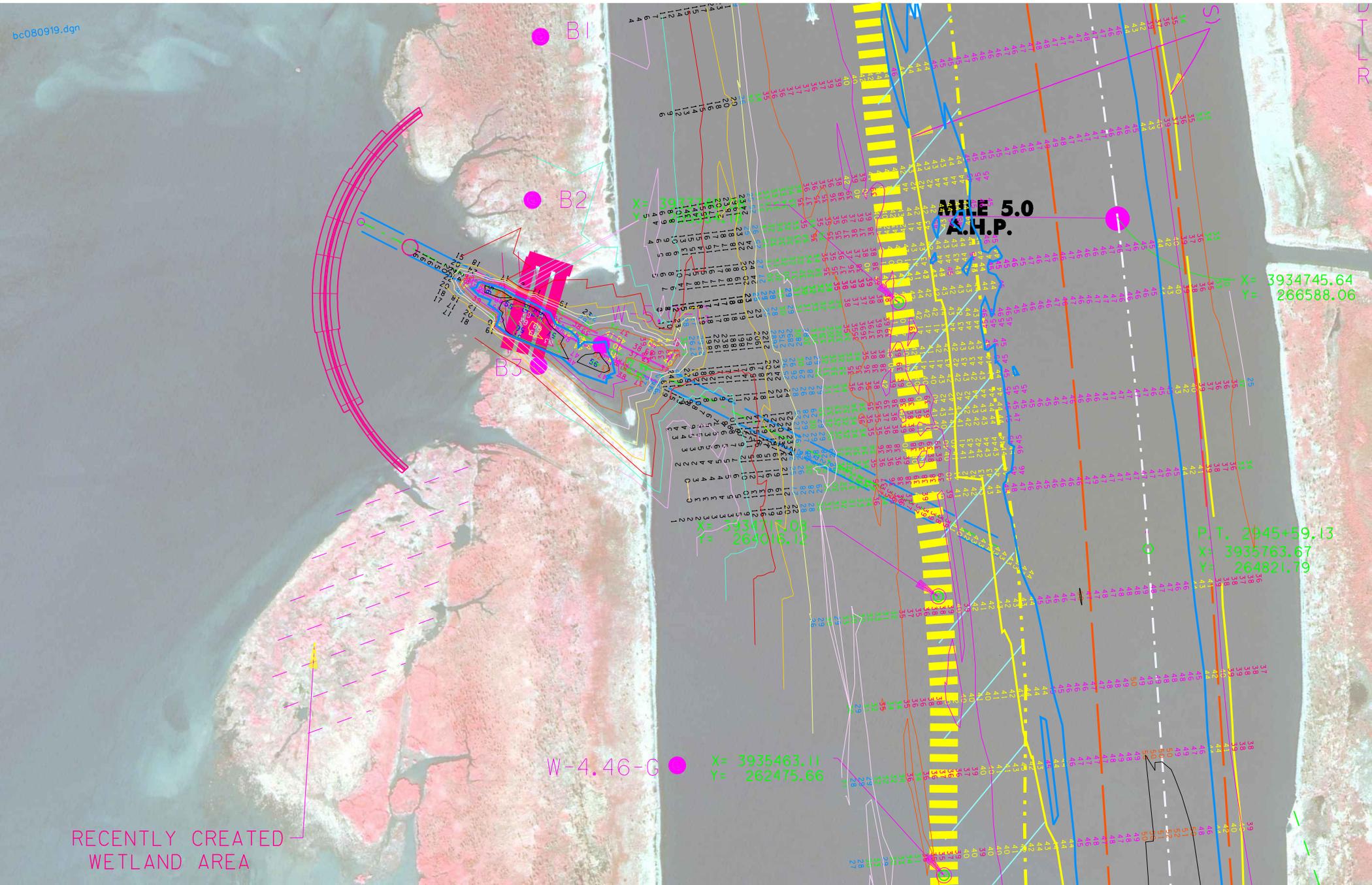
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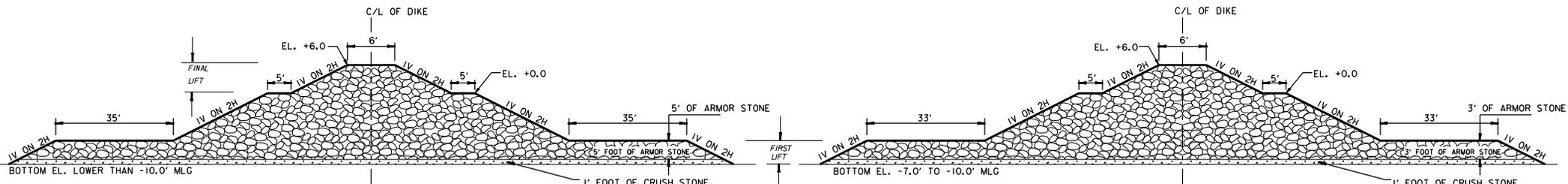
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RECENTLY CREATED WETLAND AREA

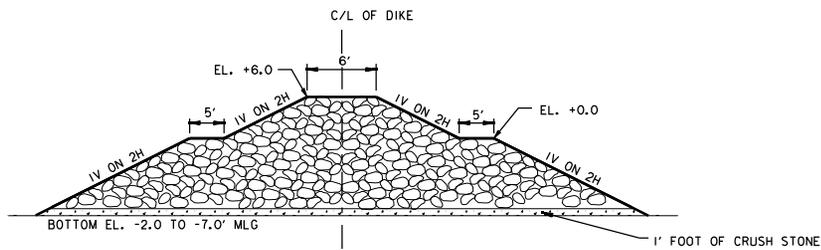
Alternative 3



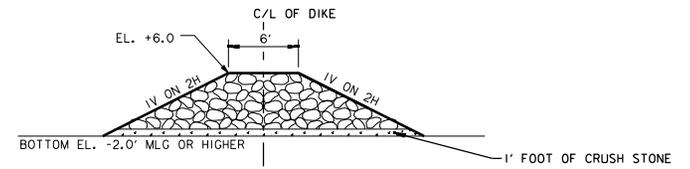


SECTION APPLIES WHERE GROUND SURFACE ELEV ALONG C/L IS LOWER THAN -10.0' MLG

SECTION APPLIES WHERE GROUND SURFACE ELEV ALONG C/L IS BETWEEN -7.0' AND -10.0' MLG



SECTION APPLIES WHERE GROUND SURFACE ELEV ALONG C/L IS BETWEEN -2.0 AND -7.0' MLG



SECTION APPLIES WHERE GROUND SURFACE ELEV ALONG C/L IS ABOVE -2.0' MLG.

THEORETICAL DIKE/CLOSURE SECTIONS

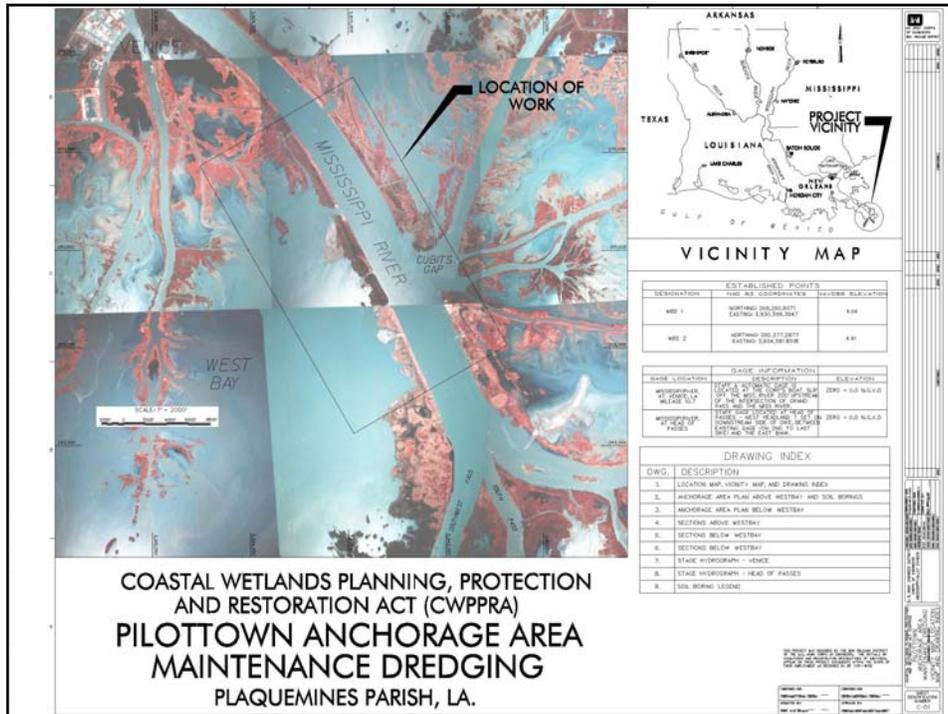
NOT TO SCALE

West Bay Sediment Diversion O&M Budget Increase Request

CWPPRA Technical Committee Meeting
9 October 2008
New Orleans, LA

Overview

- Project History
- Performance of Project
- O&M Budget Requirements
- Supporting Factors



Project History

- Louisiana Coastal Area, Land Loss and Marsh Creation Feasibility Study, 1980s
- Approved on 1st Priority Project List, 1992
- Task Force construction approval Apr 2002
- Cost Share Agreement executed Oct 2002
- Initial construction completed Dec 2003

Plan Description

- Two phase construction
 - Pipeline relocation
 - Initial diversion channel 20,000 cfs
 - Enlarge channel to 50,000 cfs
 - SREDS – Sediment Retention Enhancement Devices (included in original plan)
- Estimated 9,831 acres of wetlands created/restored
- Operations and Maintenance Plans
 - River surveillance & safety trigger conditions
 - CWPPRA Monitoring
 - Maintenance dredging Pilottown Anchorage Area
 - Outfall management

5

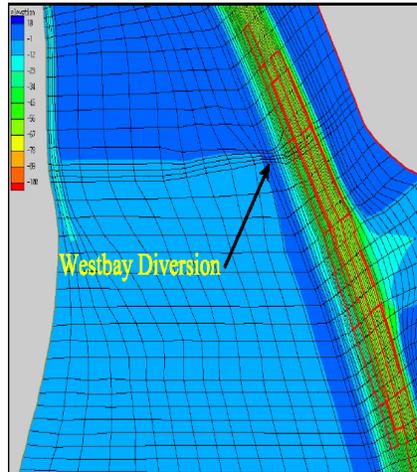
Design Efforts

- Field surveys
- Environmental benefits assessment
- NEPA Compliance through EIS/ROD
- Computer models to refine design and predict shoaling
- O&M Planning
- Relocation plan for oil pipeline
- CWPPRA design reviews

6

Hydraulic Modeling

- Determine project effects on Mississippi River
- Four model studies performed
- HEC-6 (1988)
- TABS (1992)
- CH3D-SED (2000)
- CH3D-SED (2001)



7

Oil Pipeline Relocation



- Chevron-Texaco relocated an 8" oil pipeline that runs parallel to the river
- Pipeline was directional drilled to a new depth of -150 ft to allow diverted water to pass safely
- Completed May 2003

Construction Photo: Foreshore Dike Removal



9







Project Performance

- River depth surveys
- Diversion channel dimension surveys
- Discharge volume measurements (max recorded flow is 51,270 cfs)
- Monitoring through bathymetry, vegetation and aerial photography
- No wetlands accreted to date although beneficial use has created 364 acres

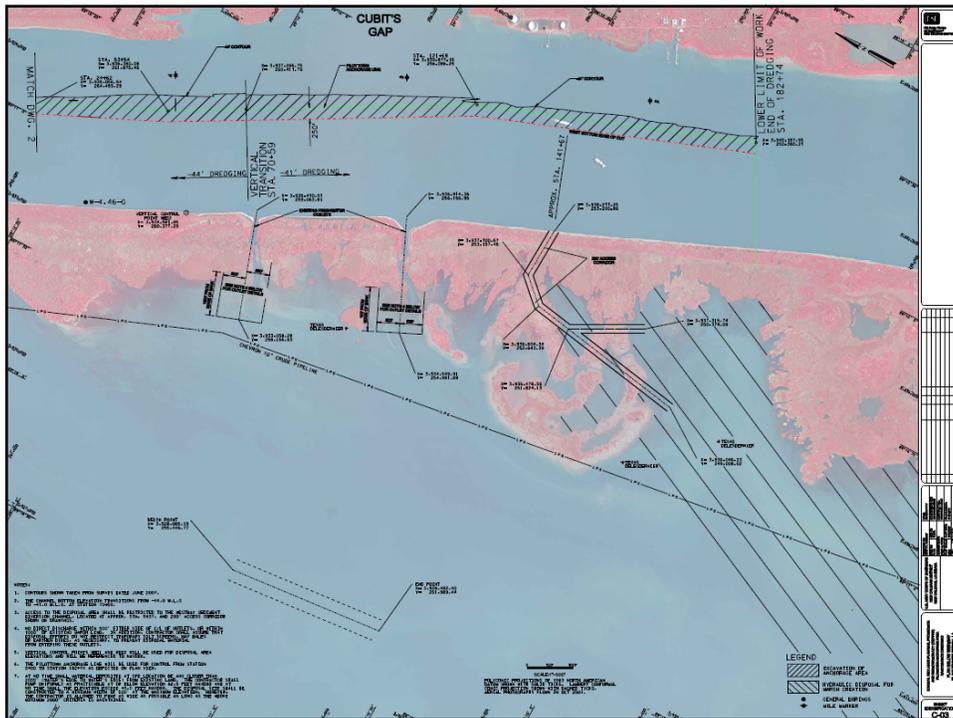
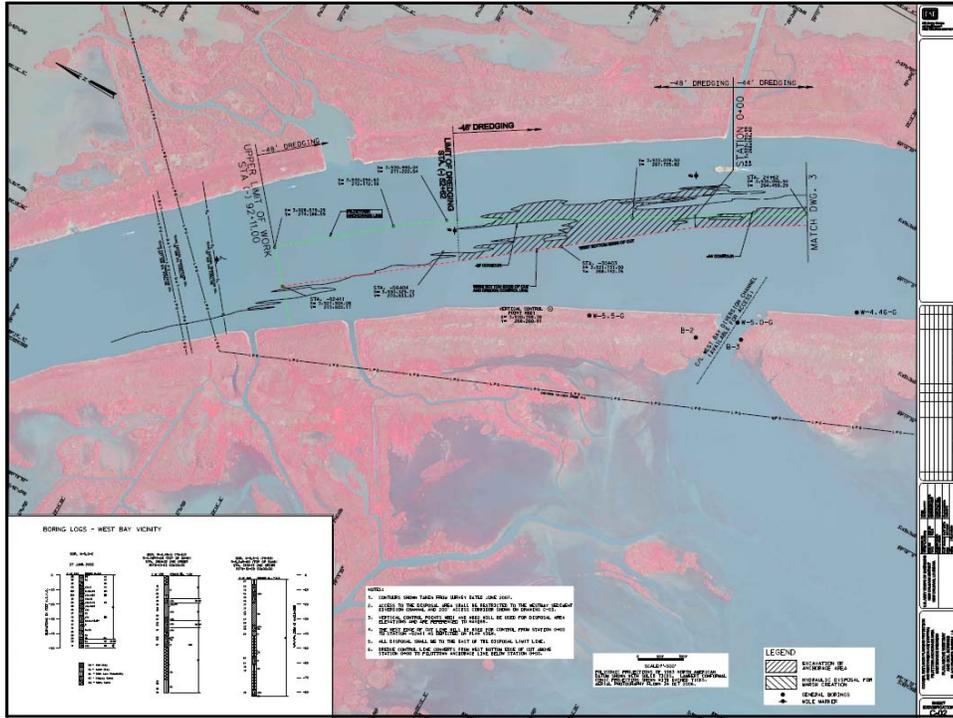


15

Pilottown Anchorage Area

- USCG designated safe harbor outside of Federal maintained navigation channel
- Located along right descending bank of river from mile 1.5 to mile 6.7 Above Head of Passes
- Pre-construction agreement with river users called for maintaining certain depths to allow ship access and anchoring
- Project cost share agreement, approved budget and O&M Plan provide details on anchorage area maintenance requirements

16



Dredging Volume

- Approved plan called for dredging approximately one million cubic yards every three years
- USACE has modified the plan to allow access to the deep draft anchorage – this was excluded from original approved O&M Plan and requires additional dredging
- Surveyed dredging requirements have been higher than anticipated especially in the reach below the diversion
- Maintenance event in 2006 following Katrina required removal of 1.4 million cubic yards
- Current estimated need is to remove 1.75 million cubic yards (based upon river surveys)

19



Dredge Pipe Into Outfall Marsh Creation Area



Dredging Cost Increases

- Dredging volume required is higher than total modeled (+100k cy) and significantly more than approved budget (+750k cy)
- Higher costs for fuel, labor and steel pipe

| 2003 | 2006 | 2009 |
|-----------|-----------|-----------|
| \$2.84/cy | \$5.22/cy | \$9.69/cy |

*includes mob and demob charges

22

Current Funding Request

- Cash flow management basis with a three year budget request developed
- \$5,954,262 remain in approved budget
- \$16,952,812 total needed for dredging and other O&M activities over next three years
- Total request today is \$10,998,550
- Total estimated fully funded cost for remainder of authorized project life is \$140,764,667

23

Project Closure Option

- Diversion can be closed in accordance with the O&M Plan
- Closing the diversion requires additional CWPPRA funds to restore pre-project conditions in the anchorage and to block off the diversion channel
- Preliminary cost estimate of approximately \$9.2 million for the closure plus added cost of restoring the anchorage area depths

24

List of Options

- ONE - Approve funds for the required maintenance cycle to maintain anchorage area depths
- TWO – Approve funds to close the diversion channel and restore anchorage area depths
- Option one carries future funding implications for continuing maintenance or project closure costs

25

Summary

- Project is a first of its kind large-scale river diversion
- Designed to divert bedload sediment to build wetlands (previous diversions were freshwater only)
- Project has program support and involved extensive coordination for NEPA compliance and design review
- Providing valuable design, construction, and monitoring information critical to future coastal restoration plans
- Expensive but cost effective

26



COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

TECHNICAL COMMITTEE MEETING

October 9, 2008

**REQUEST FOR CHANGE IN SCOPE FOR PPL 3 -WEST POINTE A LA HACHE
SIPHON IMPROVEMENTS PROJECT (BA-4C)**

For Decision:

The U.S. Natural Resource Conservation Service (NRCS) and Louisiana Coastal Protection Restoration Authority (LACPRA) request Technical Committee recommendation for Task Force approval for a change in project scope and a budget increase in the amount of \$1,003,672 for the BA-4c project. The additional funds are not needed at this time to complete Engineering and Design, and therefore would be requested when project construction approval is requested.

West Pointe a la Hache Outfall Management/Hydrologic Restoration Project (BA-4c)
Change in Project Scope
Report to the Technical Committee
September 10, 2008

Following the 1992 construction of the West Pointe a la Hache Siphon Project (BA-4) by the State of Louisiana to ameliorate salinity increases and land loss, the West Pointe a la Hache Outfall Management/Hydrologic Restoration Project (BA-4c) was approved as a CWPPRA project in 1993 to further reduce wetland loss rates and maintain emergent wetlands in the project area. Because large volumes of siphon discharge are channeled directly out of the project area through large efficient channels such as Grand Bayou and the Jefferson Canal, the objective of the BA-4c project was originally to be accomplished by implementing outfall management and hydrologic restoration measures to enhance the retention and distribution of the siphon's discharge. After several iterations, project features were to include three fixed-crest weir structures with a boat or barge bay, three armored earthen plugs, and restoration & maintenance of approx 10,600 linear ft of channel bank (Figure 1).

During the engineering and design phase of this project, hydrodynamic modeling showed that siphon flow plays a major role in ameliorating project area salinities. As a result, LDNR and NRCS agreed to pursue a change in the project scope. All previously proposed structural measures would be replaced by siphon improvement measures to increase the amount and duration of freshwater flow to the project area. The original project objective of reducing wetland loss would still be achieved by increasing the duration of operation and discharge volume of all siphon pipes each year, thereby increasing the net annual delivery of freshwater & sediment to the project area. The original project boundary will be maintained as approved by the CWPPRA WVA group in October 2007 (Figure 2).

Proposed siphon improvements include:

- 1) On-site and remote instrumentation to provide continuous monitoring and measurement of actual flow rates, instead of interpolated spreadsheet values;
- 2) Remote instrumentation to provide instant notification when any pipes lose their prime, and thereby initiate immediate response to re-establish the vacuum;
- 3) On-site vacuum pump, control equipment, and instrumentation to immediately re-establish flow when any pipes lose their prime;
- 4) Air release system to allow escape of accumulated gases to help maintain siphon vacuum;

In addition, the following improvement items will be investigated during E&D to determine their feasibility and potential benefits:

- 1) Extension of intake pipes to prevent loss of vacuum due to ship passage during lower Miss River stages;
- 2) Installation of a flange attachment for coupling with dredge operations to enrich intake of one or more pipes with fine sediment.

Preliminary analysis performed as part of the WVA projected that, with the siphon improvements, the average discharge volume during siphon operation would increase by 693 cfs to an average of 1488 cfs, and the duration of the siphon's operation was projected to be extended to nearly year-round.

The WVA predicted that the rate of wetland loss would be reduced by 40 percent with the additional freshwater input and increased operation time expected each year from the siphon improvements. The fully funded cost of the revised project is estimated to be \$5,272,959.

| | Current Project | Revised Project | % Change |
|---------------------|-----------------|-----------------|----------|
| Fully-funded Cost | \$4,269,287 | \$5,370,516 | +25.8% |
| Net Acres @ Year 20 | 1086 | 646 | -40.5% |
| AAHUs | 429 | 1,652 | 385.08% |

All values have been reviewed and approved by the appropriate CWPPRA Work Groups.

See page 5 of this report for Local Sponsor statement endorsing the change in the project scope.

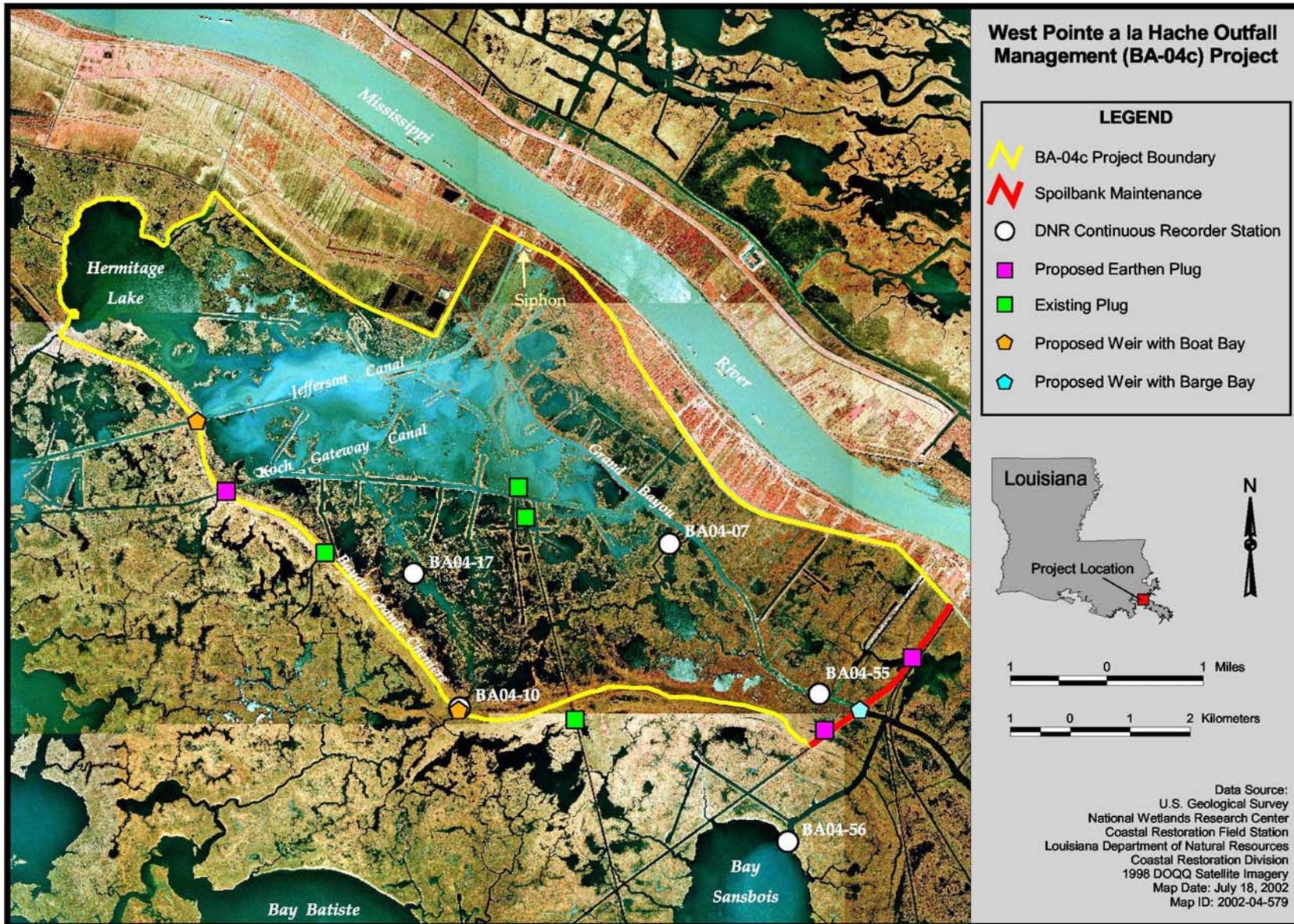


Figure 1. Original BA-4c Project Plan Features

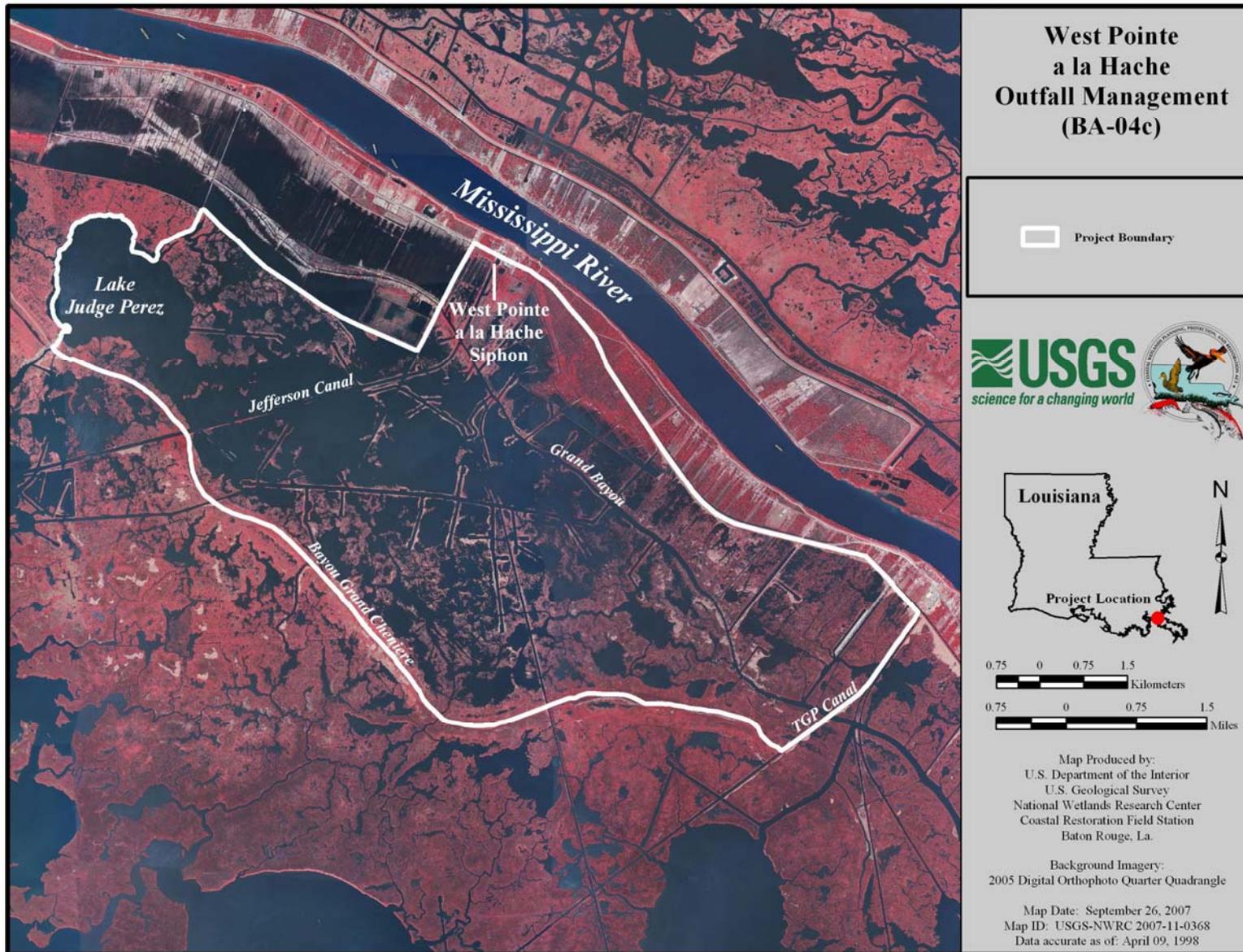


Figure 2. BA-4c Project Boundary Retained, As Approved by CWPPRA Environmental Workgroup.

-----Original Message-----

From: Chris Williams [<mailto:Chris.Williams@LA.GOV>]
Sent: Monday, August 18, 2008 7:40 AM
To: Steyer, Cindy - Baton Rouge, LA
Cc: 'WilliamJDelmar@dotd.la.gov'; Jurgensen, John - Alexandria, LA; Paul, Britt - Alexandria, LA
Subject: Re: BA-4c West Pointe a la Hache Siphon Improvements project

Cindy, the State concurs with your proposal outlined below.

Please let us know if you need any assistance.

CW

----- Original Message -----

From: Steyer, Cindy - Baton Rouge, LA <cindy.steyer@la.usda.gov>
To: Chris Williams
Cc: WilliamJDelmar@dotd.la.gov <WilliamJDelmar@dotd.la.gov>;
Jurgensen, John - Alexandria, LA <john.jurgensen@la.usda.gov>;
Paul, Britt - Alexandria, LA <britt.paul@la.usda.gov>
Sent: Fri Aug 15 15:00:51 2008
Subject: BA-4c West Pointe a la Hache Siphon Improvements project

Hi Chris,

As we are preparing the final items for submittal of the BA-4c Scope Change report to the Tech Committee & Task Force, there is another issue

for which we would like to coordinate with CPRA. As you know, the project cost has been estimated to increase 23.5% with the new project focus - from \$4,269,287 to \$5,272,959.

If the Task Force concurs with the project scope change, NRCS would prefer not to request the necessary additional funds at this time, and instead continue & complete E&D using the unspent funds in the other project categories. NRCS & CPRA would then request the additional amount determined necessary at the time construction approval is requested from the Task Force. As this is not a cash-flow project, all

of the original project funds have already been allocated and the remaining balance is more than sufficient to complete the anticipated E&D tasks. Once the detailed E&D is complete, estimates for the construction and other costs would be supported with more accurate information, and subsequently, the request for additional funds will be well substantiated.

Per the language in our cost sharing agreement, the existing project funds that remain can readily be moved from another category to E&D via a letter agreement between DNR and NRCS.

Please let us know as soon as conveniently possible if CPRA concurs with making the official request for additional project funds when the construction authorization is requested.

Thanks very much for your consideration.

Cindy S. Steyer
USDA NRCS

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

TECHNICAL COMMITTEE MEETING

October 9, 2008

STATUS OF UNCONSTRUCTED PROJECTS

For Decision:

The NRCS and CPRA will report on the status of the Brown Lake Hydrologic Restoration Project. The Technical Committee will also consider recommending Task Force approval to deauthorize or transfer the below listed projects:

- Projects Considered for Deauthorization:
 1. Periodic Introduction of Sediment & Nutrients at Selected Diversion Sites Demo
 2. Grand Bayou Hydrologic Restoration
- Projects Considered for Transfer to the Louisiana Coastal Impact Assistance Program:
 3. East Grand Terre Island Restoration
- Projects Considered for Transfer to the Louisiana Coastal Area (LCA) Program:
 4. Delta Building Diversion at Myrtle Grove



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

AUG 19 2008

Planning, Programs and Project
Management Division
Protection and Restoration
Office – Restoration Branch

Honorable David Vitter
United States Senate
One American Place
Suite 2030
Baton Rouge, Louisiana 70825

Dear Senator Vitter:

The Louisiana Coastal Wetlands Conservation and Restoration Task Force has initiated procedures to de-authorize the Periodic Introduction of Sediment and Nutrients at Selected Diversion Sites Demonstration (MR-11) Project because it has been determined that it is not feasible to conduct the project within the authorized funding limits at a sufficient scale to produce measurable out puts that would be needed to provide meaningful or useful information.

The purpose of the project, which would be located on the Mississippi River between Baton Rouge and the Gulf of Mexico, is to determine whether or not increased sediment flow through an existing freshwater diversion structure or siphon would increase wetland benefits in the diversion outfall area. Sediment for the demonstration project would be obtained from the Mississippi River by mechanically or hydraulically dredging shoaled banks and transporting it to the outfall canal by barge, truck or hydraulic pump. The total amount of funds approved to conduct the demonstration project is \$1,500,000.

The Caernarvon Freshwater Diversion Project was selected as the site that would be most effective in demonstrating the concept of introducing sediment to an existing diversion. The Corps of Engineers and the State of Louisiana, Department of Natural Resources considered various possible techniques for dredging and transporting sediment to the project site within the demonstration project funding limits and determined that it is not possible to introduce sufficient concentrations of sediment at the scale of a Coastal Wetlands Planning, Protection, and Restoration Act (CWPPRA) demonstration project to produce any meaningful or measurable results.

The CWPPRA Technical Committee will vote at their September 10, 2008, public meeting in Baton Rouge, Louisiana to decide whether or not to recommend Task Force approval to de-authorize the project as described. The Task Force will consider the Technical Committee's recommendation and make a final decision in a public Task Force meeting in New Orleans on October 9, 2008.

The Task Force is soliciting comments regarding the proposed transfer of this project. Comments should be sent by September 1, 2008, to the following address:

Colonel Alvin B. Lee
Department of the Army
New Orleans District, Corps of Engineers
Attention: PPPMD - Restoration Branch (PM-OR), Mr. Scott Wandell
Post Office Box 60267
New Orleans, Louisiana 70160-0267

If you have questions regarding this action or the CWPPRA Program, please contact Ms. Melanie Goodman, CWPPRA Program Manager at (504) 862-1940.

Sincerely,



Alvin B. Lee
Colonel, US Army
District Commander

See pages 3 and 4 for copies furnished.

Mr. Garrett Graves
Senior Advisor to the Governor for Coastal Activities
Governor's Office of Coastal Activities
Capitol Annex
1051 North Third Street, Suite 139
Baton Rouge, Louisiana 70802

Mr. William K. Honker
Deputy Director, Water Quality Protection Division
Environmental Protection Agency, Region 6
Water Quality Protection Division (6WQ)
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Dallas, Texas 75202-2733

Mr. Jim Boggs
Field Supervisor
US Fish and Wildlife Service
Louisiana Field Office
646 Cajundome Boulevard, Suite 400
Lafayette, Louisiana 70506

Mr. Kevin Norton
State Conservationist
Natural Resources Conservation Service
3737 Government Street
Alexandria, Louisiana 71302

Mr. Christopher Doley
Director, National Oceanic and Atmospheric Administration
Office of Habitat Conservation
National Marine Fisheries Service
1315 East-West Highway, Room 14853
Silver Spring, Maryland 20910

Parishes Against Coastal Erosion
Ms. Marnie Winter
Director, Jefferson Parish Department of Environmental Affairs
1221 Elmwood Park Boulevard, Suite 703
Jefferson, Louisiana 70123

Honorable Mary L. Landrieu
United States Senate
Federal Courthouse
707 Florida Street, Room 326
Baton Rouge, Louisiana 70801

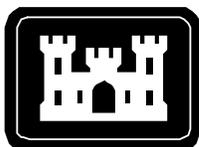
Honorable Charlie Melancon
Representative in Congress
404 Cannon House Office Building
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Honorable A. G. Crowe
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**US Army Corps
of Engineers®**
New Orleans District

Coastal Wetlands Planning,
Protection and Restoration Act
(CWPPRA)

Periodic Introduction of Sediment and Nutrients at Selected Diversion Sites Demonstration

Project Number: MR- 11

St. Bernard and Plaquemines Parishes, Louisiana

Preliminary Design Report

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1.0 PROJECT FEATURES

1.1 Project background

There is evidence that freshwater diversions from the Mississippi River do not provide as much sediment and nutrients into the adjacent wetlands as was formerly thought. This demonstration project would show the effectiveness of using a hydraulic pipeline dredge to provide increased sediment through a diversion structure that would potentially result in accretion in the receiving area. Once a site is selected, a monitoring plan would be developed to determine not only the characteristics of the sediment-input concentrations but also the subsequent effects in the outfall area. The monitoring plan may include, but not be limited to, aerial photography, dye marking, and sampling.

This report provides preliminary design information developed for the Periodic Introduction of Sediment and Nutrients at Selected Diversion Sites Demonstration Project in St. Bernard and Plaquemines Parishes, LA. This project would be located on the Mississippi River somewhere between Baton Rouge and the Gulf of Mexico. The three locations considered for potential sites were the Naomi Siphon, Davis Pond, and Caernarvon (Figure 1). The Naomi Siphon site was eliminated because the channel is already at the carrying capacity, and it does not appear the channel will be able to handle any additional load. Davis Pond was eliminated since it currently does not meet the goals and objectives of the original project and has not been able to operate at its design capacity of 10,650 cfs. The problem centers on a two-mile-long rock weir separating the ponding area from Lake Cataouatche. When construction began in 1997, it was expected that the rocks used in the gabion weir would settle about a foot-and-a-half into the mud, but the barrier kept water from draining out of the ponding area and into Lake Cataouatche. To date the structure has been unable to operate at much higher than 4,000 cubic feet per second (cfs) without over-topping the guide levees. The Caernarvon Freshwater Diversion has available flow and extensive existing monitoring data, and therefore was selected as the site location.

The Caernarvon site location would demonstrate the potential of utilizing a freshwater diversion as both a freshwater and sediment diversion through the introduction of sediment from a separate sediment source. The desired outcome of this project would be to maximize the utility of a freshwater diversion by providing additional sediment input into wetlands adjacent to the Mississippi River.

Freshwater diversions are designed to convey freshwater and are constructed on the cutting bank of the river where suspended sediment is low. This is done to maximize freshwater conveyance and minimize sediment introduction and sediment transport. This is the typical construction design for fresh water diversions and hence limits sediment availability near the diversion.

Since a sediment source is not readily available in close proximity to the structure, potential borrow areas were evaluated (Refer to Section 4.0). The proposed sediment alternatives include utilizing a sediment source upriver and transferring the material to the site via barges, and unloading material at the outfall structure. The upriver sites are needed due to the river depth near the inlet of the Caernarvon structure where depths can reach 125 feet, see Figure 3. In order to determine the characteristics of sediment input concentrations as well as effects such as decreases of sediment capacity in the outfall area, monitoring would be necessary. Any sediment source alternatives proposed should be able to yield to navigation on the river, thereby causing no impact. Navigation interests may need assurance that navigation will not be hindered by implementation of the project. Other issues to be considered included monitoring of oyster lease areas to ensure no impact by the project during execution of the sediment input procedure.

| Fully Funded Total Costs | AAC/AAHU | AAHU | Created/ Restored | Protected | Total Benefited |
|-----------------------------|----------|------|----------------------|-----------|--------------------|
| \$1,500,000 | N/A | N/A | | | N/A |

Table 1: Estimated Cost and Benefits

CWPPRA PPL-9 Project Nominee: Periodic Introduction of Sediment and Nutrients at Selected Diversion Sites Demonstration Project

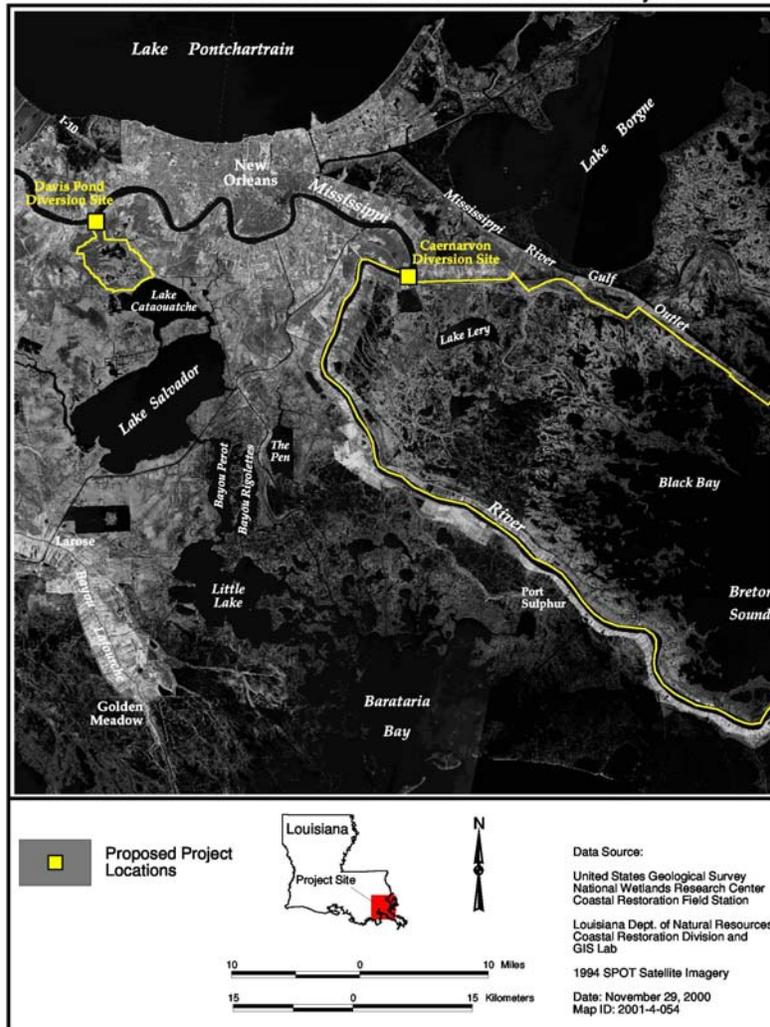


Figure 1: Proposed Site locations for Periodic Introduction of Sediment and Nutrients.



Figure 2: Caernarvon Diversion Structure, Mississippi River Mile 81.5-L

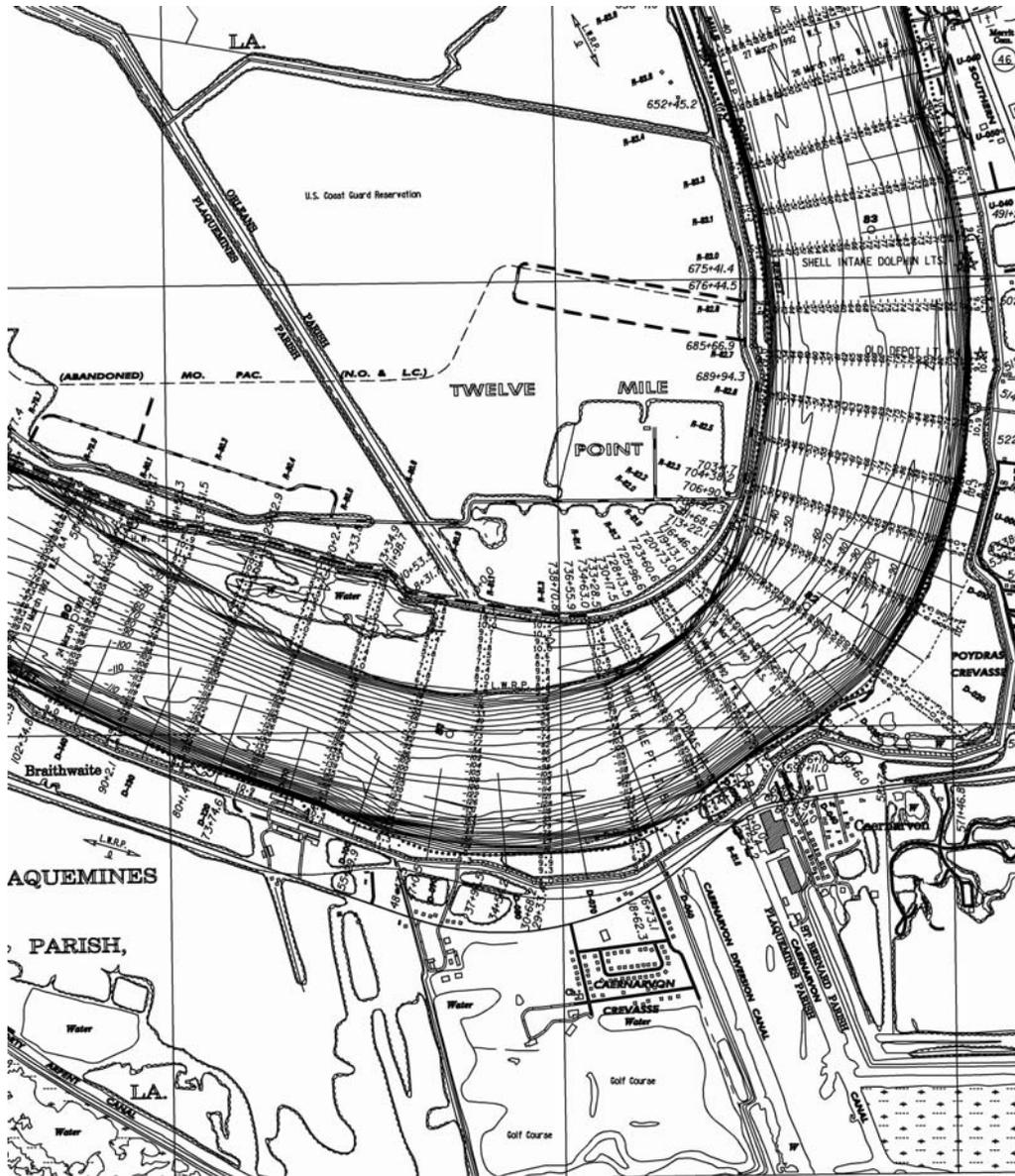


Figure 3: Plan View featuring Caernarvon from the 1992 Mississippi River Hydrographic Book.

2.0 PROJECT SITE SPECIFICATIONS/APPROVED BY ENGINEERING AND ENVIRONMENTAL WORK GROUPS

2.1 Description of Caernarvon Freshwater Diversion

The existing Caernarvon Freshwater Diversion project consists of a 255-foot-wide inflow channel with a 115-foot-wide culverted opening at elevation -10.0 feet. The five 14- by 14-foot box culverts funnel water from the Mississippi River, 622 feet south south-east to the outfall channel. The outfall channel measures 70 feet wide and conveys water 7,690 linear feet to Big Mar. The channel bottom transitions from elevation -11.0 feet at the culverted intake, to -12.0 feet at the outfall, to elevation -17.0 feet 100 feet downstream

from the outfall, then gradually continues sloping to elevation -18.0 at Big Mar. (All elevations referenced are NGVD)

3.0 ENGINEERING AND DATA COLLECTION

3.1 Caernarvon Freshwater Diversion – Sand Transport Capacity

In order to determine the feasibility of using the Caernarvon Freshwater Diversion structure as the potential site for this demonstration project, sand transport capacity of the outfall channel must be performed. Because the diversion was designed to convey freshwater with minimum sediment input there is a potential that introducing sediment will reduce the capacity of the channel through shoaling. Therefore, the Hydrologic Engineering Section performed analysis to determine sand transport capacities for the Caernarvon Freshwater Diversion Structure outflow channel in order to determine how much sediment (dredge material) can be effectively moved through the outflow channel without creating any shoaling problems. Sand Transport Capacity was computed for four (4) cross sections within the outflow channel and for four (4) different flows. See Figure 4 for cross section locations. Cross section 7900.00 is located approximately 50 feet downstream from the culvert openings and cross section 0.00 is located at the very end of the outflow channel. Sand transport capacity was computed using the HH091, Toffaleti sediment transport program. This program utilizes Toffaleti equations to compute the TOTAL sand transport capacity for each cross section in tons/day, the measured suspended sand load and the unmeasured sand load. These values can be seen in Table 3 for each cross section and flow. The variables input to the program are as follows: Mean Channel Velocity (ft/sec), mean depth of cross section (ft), Water Temperature(Degrees Fahrenheit), Top Width of cross section(ft), surface water slope(ft/ft), D_{65} (ft), and settling velocities(ft/sec). The input variables can be seen in Table 2 and were obtained from the Caernarvon outflow channel HEC-RAS model, which was completed by Hydrologic Engineering Section. The D_{65} was obtained from the attached Particle Size Distribution Report (Figure 5) and equated to 0.07mm or 0.00023 ft. Settling Velocities were computed in a spread sheet using Rubey's formula (*Sedimentation engineering / prepared by the ASCE Task Committee for the Preparation of the Manual on Sedimentation of the Sedimentation Committee of the Hydraulics Division, 1977, c1975*) for the four different grain sizes shown below.

| Grain size(ft) | Settling velocity(ft/sec) |
|----------------|---------------------------|
| 0.00029 | 0.0223 |
| 0.00058 | 0.0709 |
| 0.00116 | 0.1552 |
| 0.00232 | 0.2606 |

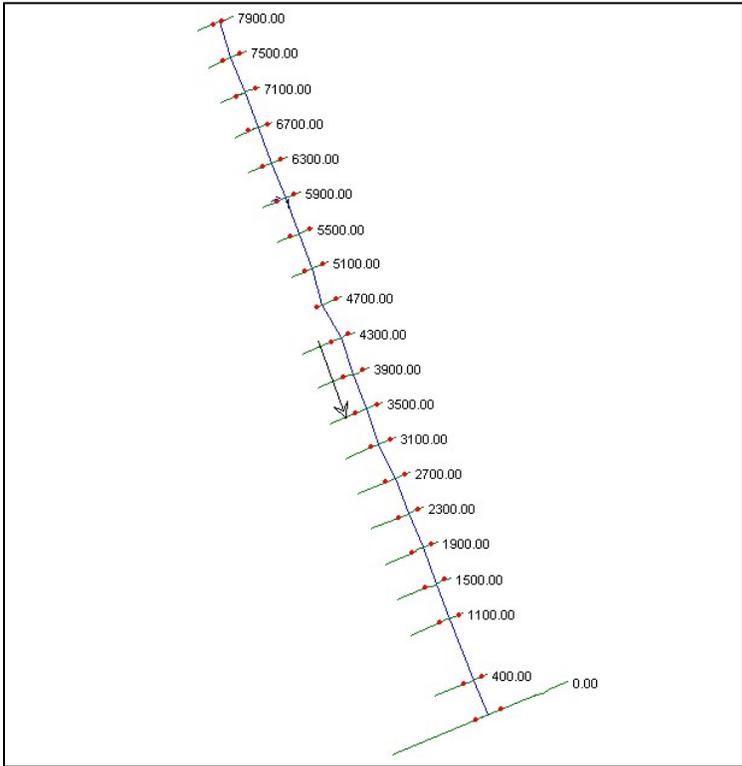


Figure 4: Outflow channel cross sections

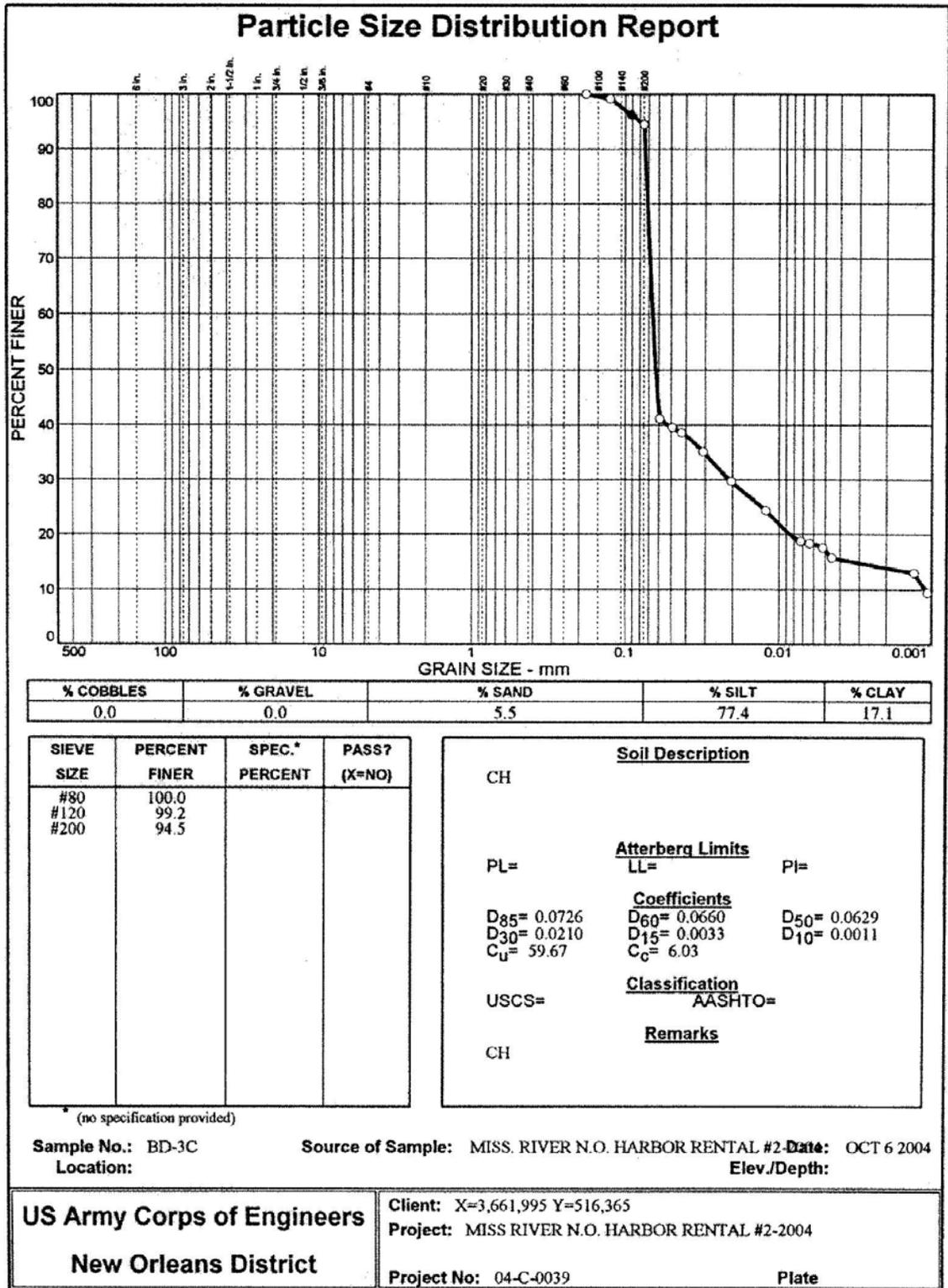


Figure 5 – Particle Size Distribution Report

| Cross Section | Flow (cfs) | Velocity (ft/sec) | Hydraulic Radius (ft.) | Temp deg F | Top Width (ft.) |
|---------------|------------|-------------------|------------------------|------------|-----------------|
| 7900 | 2000 | 1.62 | 10.57 | 48 | 96.72 |
| | 4000 | 3.09 | 10.99 | 48 | 97 |
| | 8000 | 5.43 | 6.09 | 48 | 224.5 |
| 5500 | 2000 | 1.1 | 9.02 | 48 | 197.87 |
| | 4000 | 2.09 | 9.32 | 48 | 201.9 |
| | 8000 | 3.63 | 7.6 | 48 | 290.5 |
| 3100 | 2000 | 1 | 5.98 | 48 | 366.8 |
| | 4000 | 1.96 | 5.12 | 48 | 451.8 |
| | 8000 | 3.39 | 5.61 | 48 | 487.3 |
| 0 | 2000 | 0.78 | 1.86 | 48 | 1947.2 |
| | 4000 | 1.57 | 1.86 | 48 | 1947.2 |
| | 8000 | 3.14 | 1.86 | 48 | 1947.2 |

Table 2: Cross section data and input variables to the HH091 Sediment Transport Program

| Cross Section | Flow (cfs) | Total Sand Trans. Capacity Tons/day | Meas. Sus. Sand Load Tons/day | Unmeas. Sand Load Tons/day |
|---------------|------------|-------------------------------------|-------------------------------|----------------------------|
| 7900 | 2000 | 232 | 207 | 24.06 |
| | 4000 | 3907 | 3501 | 406.53 |
| | 8000 | 127633 | 114152 | 13489 |
| 5500 | 2000 | 35 | 32 | 4.01 |
| | 4000 | 2164 | 1940 | 225.24 |
| | 8000 | 20025 | 17944 | 2082.0 |
| 3100 | 2000 | 35 | 31 | 4.01 |
| | 4000 | 3968 | 3556 | 412.3 |
| | 8000 | 26608 | 23828 | 2781.2 |
| 0 | 2000 | 36 | 33 | 4.0 |
| | 4000 | 3733 | 3339 | 394.25 |
| | 8000 | 77771 | 69131 | 8644.4 |

Table 3: Transport capacities, measured suspended sand load and unmeasured sand load

Based on the analysis, the transport capacity available by the outflow channel without shoaling, is approximately as follows, but it is important to note that transport capacities for all cross sections should be examined before any dredge material is placed in the outflow channel:

2000 cfs – 35 tons/day = 26 cy/day

4000 cfs – 2164 tons/day = 1600 cy/day

8000 cfs – 20,025 tons/day = 14,800 cy/day

4.0 ENGINEERING AND DESIGN GEOTECHNICAL INVESTIGATION

4.1 Alternative Description

A challenge to this site is the fact that the Caernarvon Freshwater Diversion does not have a sediment source readily available in the immediate vicinity. In an effort to locate a borrow source, the reach of river in the general area of the diversion structure was evaluated. The entire left descending river bank, from approximately mile 84 to mile 78 is revetted with articulated concrete mattress, prohibiting the use of a cutterhead dredge for borrow. In addition, water depths along this fairly steep bankline are in excess of 70-feet. In fact, the entire river channel is fairly deep in this relatively narrow reach of channel. The Poydras revetment upstream, was discovered to have an accumulation of sediment at the very upper end and therefore could be a potential dredge borrow source. The path from the borrow source and the Caernarvon Freshwater Diversion structure was analyzed. The following are brief alternative descriptions based on this analysis. In addition to site descriptions, conclusions are presented regarding potential cubic yards (CY) of material that can be moved based on the fiscal construction limit of \$750,000.

Freshwater diversion structures not only have source material challenges, but channelized structures create high velocity flows with an increased carrying capacity at the entrance to the project. Once the flow passes the outfall structure into a wider and deeper channel, slower velocities result in sediment shoaling. Sediment in the outfall channel blocks water flow to the system, and requires maintenance to clear.

Alternative 1:

This alternative utilizes two bucket dredges excavating at a loading area, within a 3-mile radius of the diversion structure, and two bucket dredges unloading material barges at the structure.

Alternative 1 Conclusion:

Using Alternative 1, approximately 130,000 CY would be unloaded near the diversion structure. A site visit determined that barges and bucket dredges could not be used to introduce dredged material at the intake of the diversion structure, and that a transfer of dredged material from barges to trucks would be required to introduce the sediment at the beginning of the outfall channel, past the diversion structure.

Alternative 2:

This alternative also utilizes two bucket dredges excavating at a loading area, within a 3-mile radius of the structure, but uses a 16-inch pump to unload the barges.

Alternative 2 Conclusion:

Using alternative 2, approximately 160,000 CY could be pumped about 1,000 to 1,500 feet from the material barges. This technique of unloading the barges is not only less expensive, but also will be beneficial in getting the material closer to or through the structure. This alternative appears to be the most cost effective method to get the material into or in front of the structure.

Alternative 3:

This alternative proposes to use the New Orleans Harbor maintenance dredging material to be loaded onto barges, and hauled to the Caernarvon site (a one way haul distance is approximately 20 river miles). The barges would be unloaded using the 16-inch hydraulic pump. The following is the dredging history for the harbor.

| Name | | Solicitation No. | Contract No. | Dredge Size (in) | Start | Finish | Bid Date | Cubic Yards |
|-----------------------------|----------|------------------|--------------|------------------|--------|--------|-----------|-------------|
| Mississippi River NO Harbor | No. 1-93 | 93-B-0017 | 93-C-0023 | 24 | 10-Jan | 4-Mar | 16-Dec-92 | 1,213,543 |
| Mississippi River NO Harbor | No. 2-93 | 93-B-0035 | 93-C-0068 | 24 | 4-Jun | 3-Nov | 25-May-93 | 2,518,259 |
| Mississippi River NO Harbor | No. 1-94 | 94-B-0007 | 94-C-0029 | 24 | 17-Jan | 25-Feb | 5-Jan-94 | 962,827 |
| Mississippi River NO Harbor | No. 2-94 | 94-B-0008 | 94-C-0063 | 24 | 27-May | 19-Aug | 18-May-94 | 1,622,892 |
| Mississippi River NO Harbor | No. 1-95 | 95-B-0016 | 95-C-0016 | 24 | 30-Jan | 13-Mar | 18-Jan-95 | 717,762 |
| Mississippi River NO Harbor | No. 2-95 | 95-B-0017 | 95-C-0073 | 24 | 4-Jul | 16-Aug | | |
| | | | | 27 | 17-Aug | 12-Sep | 7-Jun-95 | 1,481,110 |
| Mississippi River NO Harbor | No. 1-96 | 96-B-0014 | 96-C-0022 | 24 | 18-Jan | 8-Feb | 8-Jan-96 | 394,828 |
| Mississippi River NO Harbor | No. 2-96 | 96-B-0015 | 96-C-0052 | 27 | 14-Jun | 11-Aug | 5-Jun-96 | 1,358,714 |
| Mississippi River NO Harbor | No. 1-97 | 97-B-0001 | 97_C-0021 | 30 | 23-Jan | 11-Feb | 16-Jan-97 | 663,777 |
| Mississippi River NO Harbor | No. 4-97 | 97-B-0094 | 97-C-0061 | 27 | 15-Jun | 1-Aug | 9-Jun-97 | 918,104 |
| Mississippi River NO Harbor | No. 2-98 | 98-B-0012 | 98-C-0046 | 30 | 18-Jun | 8-Aug | 27-May-98 | 1,140,410 |
| Mississippi River NO Harbor | No. 2-99 | 99-B-0005 | 99-C-0038 | 30 | 18-Jun | 7-Aug | 10-Jun-99 | 1,526,000 |
| Mississippi River NO Harbor | No. 1-00 | 00-B-0043 | 01-C-0021 | 16 | 1-Feb | 8-Feb | | |
| | | | | | 6-Mar | 19-Mar | 24-Jan-01 | 334,530 |
| Mississippi River NO Harbor | No. 3-00 | 00-B-0045 | 00-C-0058 | 30 | 5-Jun | 19-Jun | 23-May-00 | 427,500 |
| Mississippi River NO Harbor | No. 2-01 | 01-B-0037 | 01-C-0046 | 30 | 14-May | 1-Jun | 10-May-01 | 556,310 |
| Mississippi River NO Harbor | No. 3-01 | 01-B-0038 | 01-C-0062 | 24 | 28-Aug | 20-Sep | 8-Aug-01 | 489,768 |
| Mississippi River NO Harbor | No. 1-02 | 02-B-0016 | 03-C-0019 | 27 | 8-Feb | 27-Feb | 30-Jan-03 | 332,318 |
| Mississippi River NO Harbor | No. 2-02 | 02-B-0017 | 02-C-0051 | 30 | 18-Jun | 27-Jul | 14-Jun-02 | 888,406 |
| Mississippi River NO Harbor | No. 3-02 | 02-B-0018 | 02-C-0018 | 30 | 19-Jan | 4-Feb | 9-Jan-02 | 422,274 |
| Mississippi River NO Harbor | No. 2-03 | 03-B-0044 | 03-C-0050 | 24 | 9-Aug | 19-Sep | 30-Jul-03 | 450,000 |
| Mississippi River NO Harbor | No. 3-03 | 03-B-0045 | 03-C-0033 | 27 | 16-Apr | 8-May | 10-Apr-03 | 260,294 |

Table 4: Historic Dredging Information for New Orleans Harbor

Alternative 3 Conclusion:

Using alternative 3, approximately 80,000 CY could be pumped about 1,000 to 1,500 feet from the transfer barges to the diversion structure. This alternative is more expensive because of the means necessary to load the material from the large dredge into the large barges on the New Orleans Harbor contract, in addition to the 20-mile haul. Due to the expense of transporting the dredged material, this alternative would not be the best approach .

Alternative 4:

No action

None of the alternatives would produce sufficient quantities within the existing budget to create a net positive impact to the receiving area marsh. Because the receiving area is unconfined, it is impossible to quantify the amount of sediment that would be retained as a result of sediment introduction. As stated in section 4.1 of this report, alternative 2 is the most cost effective method to get the material into or in front of the structure of the three action alternatives. It is important to note that these costs were developed prior to the active hurricane season in 2005. The subsequent years have seen significantly higher dredging costs.

Alternative 4 Conclusion:

As stated previously, Alternative 2 is the most cost effective method to get the material into or in front of the structure of the three action alternatives. However, none of the alternatives were able to produce quantities that have the potential to create positive impacts to the receiving marsh. It is difficult to specify how the sediment would impact the receiving area. This is because the receiving area is unconfined, and there is no mechanism to control the placement of the sediment as it discharges. Locating and obtaining sufficient quantities of dredged material close to the diversion project is also problematic. Freshwater diversions are sited on cutting banks where shoaling does not occur. Therefore, the least expensive, or closest, source for dredged material may not be available. Additionally, the placement of sediment into the outfall channel could cause shoaling in the channel, which would require maintenance dredging to reestablish the passive operation of the diversion. The likelihood that the additional sediment would make an impact commensurate with the expense of dredging is negligible.

It is important to note that these costs were developed prior to the active hurricane season in 2005. Since then, construction, maintenance and labor costs have increased several times. The cost estimate was not revised, because it could not be shown that the introduction of these quantities of dredged material would have a positive effect on the marsh

De-authorization is recommended for this project.

5.0 RECOMMENDATION

Since all of the alternatives considered did not yield benefits that would justify the expense of construction, it is recommended that this demonstration project be de-authorized.

A site visit with Corps and DNR representatives on November 8, 2007, suggested another possibility for introducing sediment into the system in a cost-effective manner. It was proposed that accumulated river silt and sand could be hydraulically dredged from the left descending bank anywhere between miles 75.4 (Belle Chasse ferry landing) and 73.5 (Stella, LA), conveyed by dredge pipeline over and across the Mississippi River levee, across the fast lands of Plaquemines Parish and the back levee, across the wetlands/open waters of Breton Sound, and introduced into an area, to be specified, immediately south of Big Mar. The distance would be approximately 5 miles from dredge site to placement, requiring pumping to assist flow. The discharge pipeline could be moved periodically to provide a broadcast effect, and to allow the stockpiling of the heavier sands to be distributed in a manner that would not create a barrier to flow within the system.

The suitability of this proposal requires additional information about the sediment location, volume and gradation, and borings previously taken, whether ED and Plaquemines Parish would allow a dredge line across the levees, the location of the cross-country dredge pipeline, best discharge location, plus timing of the discharge and moving the pipeline. Inquiries into real estate, economics and possible hazards to navigation would be required prior to further consideration of this alternative.

6.0 LAND OWNERSHIP INVESTIGATION

Not necessary due to de-authorization.

7.0 PRELIMINARY CULTURAL RESOURCES ASSESSMENT

Not necessary due to de-authorization.

7.0 REVISED PROJECT CONSTRUCTION COST ESTIMATES BASED ON THE CURRENT DESIGN

Alternatives were based on a construction cost limit of \$750,000.

8.0 DESCRIPTION OF CHANGES SINCE FUNDING APPROVAL

The basic purpose of the project has not changed although multiple sites have been investigated. The initial site was Naomi Siphon, but hydraulic reports indicated that Naomi was not adequate to carry sediment. At this point, Caernarvon was determined to be the most feasible site suitable for this demonstration.

9.0 DETAILED MONITORING PLAN

Not necessary due to de-authorization.

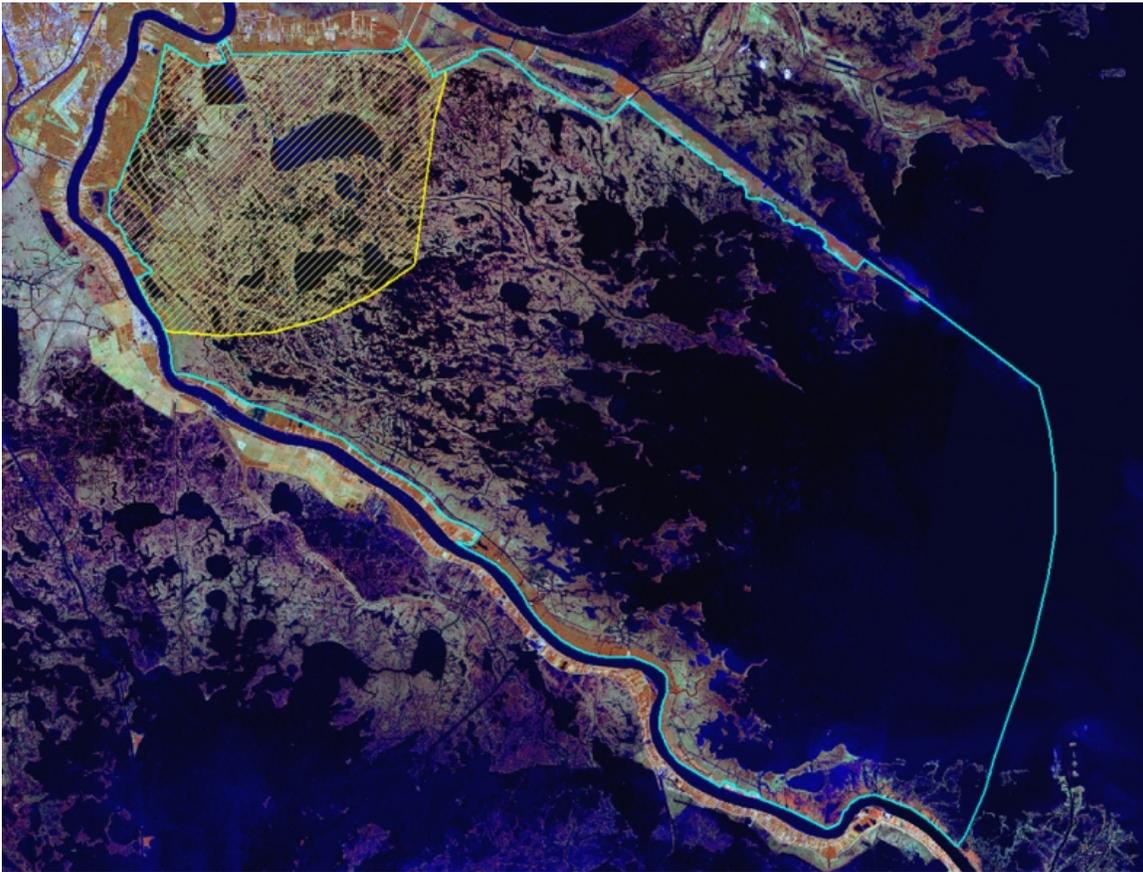


Figure 6: Watershed of Lake Lery 1



DEPARTMENT OF THE ARMY
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

REPLY TO
ATTENTION OF

Planning, Programs, and Project
Management Division
Protection and Restoration
Office -- Restoration Branch

AUG 28 2008

Honorable David Vitter
United States Senate
One American Place
Suite 2030
Baton Rouge, Louisiana 70825

Dear Senator Vitter:

The Louisiana Coastal Wetlands Conservation and Restoration Task Force has initiated procedures to de-authorize the Grand Bayou Hydrologic Restoration (TE-10) Project, located in Lafourche Parish, Louisiana. The US Fish and Wildlife Service (federal sponsor) and the Louisiana Department of Natural Resources (local sponsor) have requested that this project be de-authorized because recent hydrologic modeling indicates salinities would increase in the project area if it is implemented.

The purpose of this project is to address the loss of emergent wetlands in the project area due to subsidence and altered hydrology associated with oil-field access canals, and increased saltwater inflow from Cutoff Canal and Grand Bayou Canal. Project features included: enlargement of the Bayou L'Bleau canal to facilitate freshwater introduction; a relief structure located along Grand Bayou to improve drainage and aid freshwater flow into the bayous West of Grand Bayou; installation of a major water control structure in Bayou Pointe au Chien; construction of the Cutoff Canal structure and tie-in levees to restore hydrology by retaining freshwater and reducing saltwater intrusion. The total amount of funds approved to execute this project including construction, operations maintenance, and monitoring is \$8,209,722.

The Coastal Wetlands Planning, Protection and Restoration Act Technical Committee will vote at their September 10, 2008 meeting in Baton Rouge, Louisiana to decide whether or not to recommend Task Force approval to de-authorize the project as described. The Task Force will consider the Technical Committee's recommendation and make a final decision at a public Task Force meeting in New Orleans on October 9, 2008.

The CWPPRA Technical Committee will vote at their September 10, 2008, public meeting in Baton Rouge, Louisiana to decide whether or not to recommend Task Force approval to de-authorize the project as described. The Task Force will consider the Technical Committee's recommendation and make a final decision in a public Task Force meeting in New Orleans on October 9, 2008.

The Task Force is soliciting comments regarding the proposed transfer of this project. Comments should be sent by September 1, 2008, to the following address:

Colonel Alvin B. Lee
Department of the Army
New Orleans District, Corps of Engineers
Attention: PPPMD - Restoration Branch (PM-OR), Mr. Scott Wandell
Post Office Box 60267
New Orleans, Louisiana 70160-0267

If you have questions regarding this action or the CWPPRA Program, please contact Ms. Melanie Goodman, CWPPRA Program Manager at (504) 862-1940.

Sincerely,



Alvin B. Lee
Colonel, US Army
District Commander

See pages 3 and 4 for copies furnished.

Mr. Garrett Graves
Senior Advisor to the Governor for Coastal Activities
Governor's Office of Coastal Activities
Capitol Annex
1051 North Third Street, Suite 139
Baton Rouge, Louisiana 70802

Mr. William K. Honker
Deputy Director, Water Quality Protection Division
Environmental Protection Agency, Region 6
Water Quality Protection Division (6WQ)
1445 Ross Avenue
Dallas, Texas 75202-2733

Mr. Jim Boggs
Field Supervisor
US Fish and Wildlife Service
Louisiana Field Office
646 Cajundome Boulevard, Suite 400
Lafayette, Louisiana 70506

Mr. Kevin Norton
State Conservationist
Natural Resources Conservation Service
3737 Government Street
Alexandria, Louisiana 71302

Mr. Christopher Doley
Director, National Oceanic and Atmospheric Administration
Office of Habitat Conservation
National Marine Fisheries Service
1315 East-West Highway, Room 14853
Silver Spring, Maryland 20910

Parishes Against Coastal Erosion
Ms. Marnie Winter
Director, Jefferson Parish Department of Environmental Affairs
1221 Elmwood Park Boulevard, Suite 703
Jefferson, Louisiana 70123

Honorable Mary L. Landrieu
United States Senate
Federal Courthouse
707 Florida Street, Room 326
Baton Rouge, Louisiana 70801

Honorable Charlie Melancon
Representative in Congress
404 Cannon House Office Building
Washington, DC 20515

Honorable A. G. Crowe
United States Senate
Post Office Box 94183
Baton Rouge, Louisiana

Honorable Ernest D. Wooton
Representative in Congress
8018 Highway 23, Suite 214
Belle Chasse, Louisiana 70037

Mr. Kerry St. Pe
Barataria Terrebonne National Estuary Program
North Babington Hall
Nichols State University
320 Audubon Street
Thibodaux, Louisiana 70301

Mr. Aaron F. Broussard
Parish President, Jefferson
1221 Elmwood Park Boulevard, Suite 1002
Jefferson, Louisiana 70123



DEPARTMENT OF THE ARMY
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

REPLY TO
ATTENTION OF

AUG 19 2008

Planning, Programs, and Project
Management Division
Protection and Restoration
Office – Restoration Branch

Honorable David Vitter
United States Senate
One American Place
Suite 2030
Baton Rouge, Louisiana 70825

Dear Senator Vitter:

The Louisiana Coastal Wetlands Conservation and Restoration Task Force has initiated procedures to transfer the East/West Grand Terre Islands Restoration (BA-30) Project, located at the mouth of Barataria Bay in Jefferson Parish, Louisiana, from the Coastal Wetlands Planning, Protection and Restoration Act (CWPPRA) Program to the Louisiana Coastal Impact Assistance Program (CIAP), to be implemented according to the Louisiana Coastal Impact Assistance Plan.

The purpose of this project is to restore the barrier shoreline of western Grand Terre Island by constructing 40 acres of dune from the Lyle S. St. Amant Marine Biological Laboratory to the US Army Corps of Engineers dredge material disposal area. The original fully funded cost estimate for the CWPPRA project is \$36,200,000.

The BA-30 Project is currently identified as a Tier 1 Project in the Louisiana Coastal Impact Assistance Plan, which has been approved by the Department of Interior, Minerals Management Service (MMS). The state will use funds that have been granted by MMS to complete the final design and construct the project.

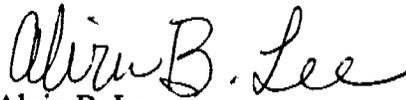
The CWPPRA Technical Committee will vote at their September 10, 2008 meeting in Baton Rouge, Louisiana to decide whether or not to recommend Task Force approval to transfer the project as described. The Task Force will consider the Technical Committee's recommendation and make a final decision at a public Task Force meeting in New Orleans on October 9, 2008.

The Task Force is soliciting comments regarding the proposed transfer of this project. Comments should be sent by September 4, 2008 to the following address:

Colonel Alvin B. Lee
Department of the Army
New Orleans District, Corps of Engineers
Attention: PPPMD - Restoration Branch (PM-OR), Mr. Scott Wandell
Post Office Box 60267
New Orleans, Louisiana 70160-0267

If you have questions regarding this action or the CWPPRA Program, please contact Ms. Melanie Goodman, CWPPRA Program Manager at (504) 862-1940.

Sincerely,



Alvin B. Lee
Colonel, US Army
District Commander

See pages 3 and 4 for copies furnished.

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Senior Advisor to the Governor for Coastal Activities
Governor's Office of Coastal Activities
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DEPARTMENT OF THE ARMY
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS
P.O. BOX 60267
NEW ORLEANS, LOUISIANA 70160-0267

REPLY TO
ATTENTION OF

Planning, Programs, and Project
Management Division
Protection and Restoration
Office – Restoration Branch

AUG 19 2008

Honorable David Vitter
United States Senate
One American Place
Suite 2030
Baton Rouge, Louisiana 70825

Dear Senator Vitter:

The Louisiana Coastal Wetlands Conservation and Restoration Task Force has initiated procedures to transfer the Delta Building Diversion at Myrtle Grove (BA-33) Project, located on and adjacent to the west bank of the Mississippi River, in Jefferson and Plaquemines Parishes, Louisiana, from the Coastal Wetlands Planning, Protection and Restoration Act (CWPPRA) Program to the Louisiana Coastal Area Program to be implemented according to the 2007 Water Resources Development Act (WRDA).

The purpose of the BA-33 Project is to protect approximately 14,500 acres of coastal wetlands that would be lost over a 20-year period without the proposed project due to high subsidence and altered hydrology associated with navigation and flood control projects and oil and gas exploration and extraction activities. The project is currently approved for engineering and design under the CWPPRA program, and includes: installing gated box culverts on the west bank of the Mississippi River in the vicinity of the community of Myrtle Grove; dedicated dredging from the Mississippi River to create marsh in the vicinity of Bayou Dupont, Barataria Bay Waterway, and Wilkinson Canal; or a combination of these actions. The project is conditionally authorized for construction under the 2007 WRDA, at an estimated cost of \$278,300,000.

The CWPPRA Technical Committee will vote at their September 10, 2008, public meeting in Baton Rouge, Louisiana to decide whether or not to recommend Task Force approval to transfer the project as described. The Task Force will consider the Technical Committee's recommendation and make a final decision at a public Task Force meeting in New Orleans on October 9, 2008.

The CWPPRA Technical Committee will vote at their September 10, 2008, public meeting in Baton Rouge, Louisiana to decide whether or not to recommend Task Force approval to de-authorize the project as described. The Task Force will consider the Technical Committee's recommendation and make a final decision in a public Task Force meeting in New Orleans on October 9, 2008.

The Task Force is soliciting comments regarding the proposed transfer of this project. Comments should be sent by September 1, 2008, to the following address:

Colonel Alvin B. Lee
Department of the Army
New Orleans District, Corps of Engineers
Attention: PPPMD - Restoration Branch (PM-OR), Mr. Scott Wandell
Post Office Box 60267
New Orleans, Louisiana 70160-0267

If you have questions regarding this action or the CWPPRA Program, please contact Ms. Melanie Goodman, CWPPRA Program Manager at (504) 862-1940.

Sincerely,



Alvin B. Lee
Colonel, US Army
District Commander

See pages 3 and 4 for copies furnished.

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COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

TECHNICAL COMMITTEE MEETING

October 9, 2008

STATUS OF THE DONALDSONVILLE TO THE GULF FEASIBILITY STUDY

For Discussion:

The USACE will provide a brief on the status of the Donaldsonville to the Gulf Feasibility Study and how the study process is considering potential impacts to existing and proposed CWPPRA projects.



**US Army Corps
of Engineers®**
New Orleans District

Donaldsonville, LA to the Gulf of Mexico Feasibility Study

Briefing for

CWPPRA Technical Committee

09.10.2008



Donaldsonville, LA to the Gulf of Mexico

Feasibility Study



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of Engineers®**
New Orleans District



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Donaldsonville, LA to the Gulf of Mexico Feasibility Study

Authority

*Resolution adopted by the Committee
on Transportation and Infrastructure
of the United States House of
Representatives on May 6, 1998.*



**US Army Corps
of Engineers**
New Orleans District

Donaldsonville, LA to the Gulf of Mexico

Authorization Language

- Flood control
- Navigation
- Wetlands conservation and restoration
- Wildlife habitat
- Commercial and recreational fishing
- Salt water intrusion
- Fresh water and sediment diversion
- Other purposes



**US Army Corps
of Engineers**
New Orleans District

Donaldsonville, LA to the Gulf of Mexico

Feasibility Study

- Total estimated cost: \$7 million
- Cost shared: 50% Federal / 50% non-Federal
- Non-federal sponsors will perform work-in-kind



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New Orleans District

Donaldsonville, LA to the Gulf of Mexico

Problems

- Low terrain with small gain in elevation with distance from Gulf
- Tidal and storm surges from Gulf
- Rainfall events
- Conveyance obstructions
- Salt-water intrusion
- Subsidence and sea level rise
- Environmentally stressed areas



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New Orleans District

Study Objectives

- Hurricane Damage Reduction
- Interior Drainage
- Environmental Mitigation Features



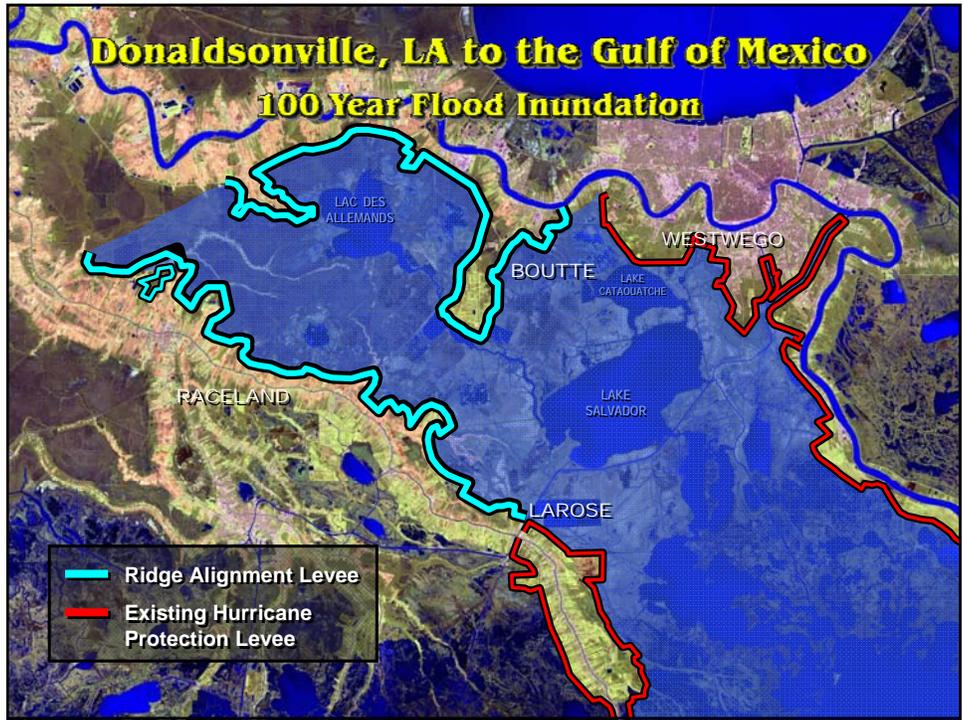


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New Orleans District

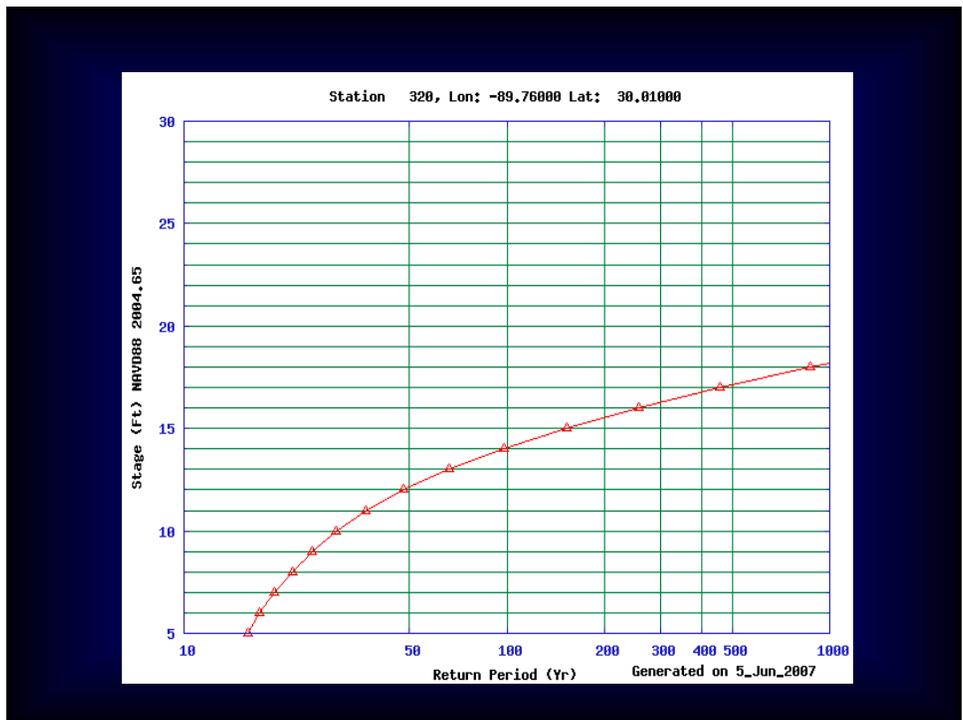
Complete System to Provide Hurricane and Flood Damage Risk Reduction Consists of:

- **Hurricane Damage Reduction System**
 - Levees, floodgates
 - Tidal interchange structures
 - Drainage improvements
 - Pump stations
- **Environmental Mitigation Features**
 - Wildlife and habitat benefits
 - Water quality benefits











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Donaldsonville, LA to the Gulf of Mexico

| | <u>Levee Length (miles)</u> | <u>Population Within</u> | <u>Residences Within</u> |
|----------------|-------------------------------------|------------------------------|------------------------------|
| Ridge | 163 | 93,000 | 20,000 |
| Highway 90 | 53 | 93,000 | 20,000 |
| Pipeline Canal | 34 | 93,000 | 20,000 |
| GIWW | 23 | 356,000 | 119,000 |

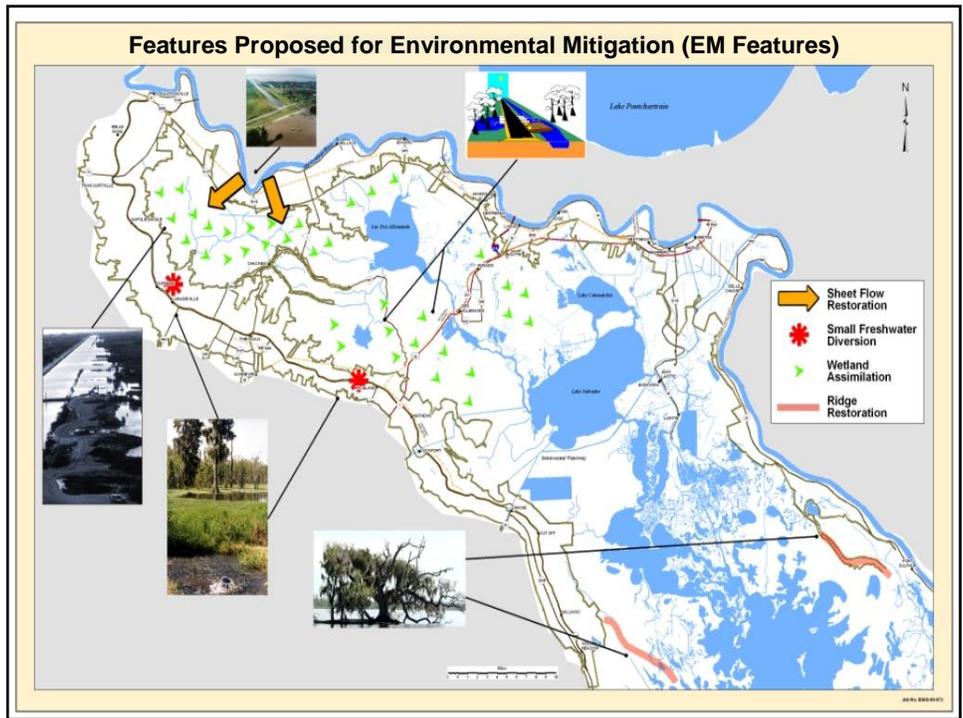


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New Orleans District

Donaldsonville, LA to the Gulf of Mexico

Outreach

- Other federal and state agencies
- Prevent severe surges from entering protected area
- Sufficient structures to reduce the velocities and head for safe passage of marine organisms



Congress of the United States
Washington, DC 20515

October 05, 2007

Lieutenant General Robert L. Van Antwerp
Chief of Engineers and Commanding General
U.S. Army Corps of Engineers
Headquarters
441 G Street, NW
Washington, DC 20314

Dear General Van Antwerp:

We are writing to urge your immediate attention to advancing the Morganza to the Gulf, Donaldsonville to the Gulf and Alexandria to the Gulf Hurricane protection projects.

The Department of Defense, Emergency Supplemental Appropriations to Address Hurricanes in the Gulf of Mexico, and Pandemic Influenza Act, 2006, Public Law 109-148, included \$153,750,000 for work within the Mississippi River and Tributaries program. Section 2303 of the Emergency Supplemental Appropriations Act for Defense, The Global War on Terror, and Hurricane Recovery, 2006, Public Law 109-234, directs the Corps to expend these funds to "expedite and accelerate completion of any study or unconstructed portion of the Mississippi River and Tributaries project for flood and storm damage reduction in the south Louisiana area."

Included in the authorization and eligible for funding are:

- 1) **Morganza to the Gulf**: additional construction and planning, engineering and design;
- 2) **Donaldsonville to the Gulf**: completion of feasibility study and planning, engineering and design; and
- 3) **Alexandria to the Gulf**: completion of feasibility study and planning, engineering and design.

Rather than expediting and accelerating completion of these vital protection systems as required by law, we understand that the U.S. Army Corps of Engineer plans to further delay construction and the completion of relevant studies. We strongly oppose these plans.

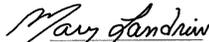
We urge you to work to advance each of these vital protection projects as soon as possible with the funds and authorization provided in the emergency supplemental appropriation bills. The citizens of Terrebonne Parish have been waiting for nearly 20 years for hurricane protection. The construction of vital protection features such as the Houma Navigation Canal Lock should not be prolonged.

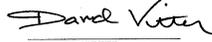
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Page Two -- General Van Antwerp

Please provide us an update of how you plan to comply with the requirement to advance these important protection systems with the authorization and funding provided.

Sincerely,


MARY L. LANDRIEU
United States Senator


DAVID VITTER
United States Senator


RICHARD H. BAKER
United States Congressman


JIM MCCREERY
United States Congressman


WILLIAM JEFFERSON
United States Congressman


RODNEY ALEXANDER
United States Congressman


BOBBY JINDAL
United States Congressman


CHARLIE MELANCON
United States Congressman


CHARLES BOUSTANY
United States Congressman



**US Army Corps
of Engineers**
New Orleans District

Donaldsonville, LA to the Gulf of Mexico

Schedule

- **Draft FS with DDEIS ready for internal review - July 2009**
- **Complete final FS/FEIS – Spring 2010**
- **Inclusion in WRDA 2010**

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

TECHNICAL COMMITTEE MEETING

October 9, 2008

ADDITIONAL AGENDA ITEMS

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

TECHNICAL COMMITTEE MEETING

October 9, 2008

REQUEST FOR PUBLIC COMMENTS

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT
TECHNICAL COMMITTEE MEETING

October 9, 2008

**ANNOUNCEMENT: DATE AND LOCATION OF UPCOMING TASK FORCE
MEETING**

Announcement:

The Task Force meeting will be held November 5, 2008 at 9:30 a.m. at the U.S. Army Corps of Engineers, 7400 Leake Ave., New Orleans, Louisiana in the District Assembly Room (DARM).

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

TECHNICAL COMMITTEE MEETING

October 9, 2008

ANNOUNCEMENT: SCHEDULED DATES OF FUTURE PROGRAM MEETINGS

Announcement:

| 2008 | | | |
|-------------------------|------------------|-----------------------|--------------------|
| November 5, 2008 | 9:30 a.m. | Task Force | New Orleans |
| November 18, 2008 | 7:00 p.m. | PPL 18 Public Meeting | Abbeville |
| November 19, 2008 | 7:00 p.m. | PPL 18 Public Meeting | New Orleans |
| December 3, 2008 | 9:30 a.m. | Technical Committee | New Orleans |
| 2009 | | | |
| January 21, 2009 | 9:30 a.m. | Task Force | New Orleans |

* Dates in **BOLD** are new or revised dates.

COASTAL WETLANDS PLANNING, PROTECTION AND RESTORATION ACT

TECHNICAL COMMITTEE MEETING

October 9, 2008

DECISION: ADJOURN MEETING